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March 2, 2016

Mr. Jason Metzger
Response and Remediation Program
Georgia Department of Natural Resources
Environmental Protection Division
2 Martin Luther King, Jr. Drive, SE, Suite 1054 East
Atlanta, Georgia 30334

Subject: **Submittal of Fifth VIRP Progress Report**
AMC International, HSI No. 10405
310 Brookhollow Industrial Boulevard, Dalton, Whitfield County, Georgia

Dear Mr. Metzger:

EarthCon Consultants, Inc. (EarthCon), on behalf of our client AMC Whitfield Holdings, Inc. is pleased to submit the Fifth Voluntary Investigation and Remediation Plan (VIRP) Progress Report for the AMC International facility (HSI No. 10405) located in Dalton, Whitfield County, Georgia. If you have any questions regarding the Fifth VIRP Progress Report, please feel free to contact the undersigned at (770) 973-2100.

Sincerely,

Kristen R. Rivera, P.G.
Senior Geologist

Carol D. Northern, P.G.
Principal Geologist

Attachment: Fifth VIRP Progress Report

Cc: Ms. Robin Futch, Georgia EPD
Ms. Maria Callas, AMC Whitfield Holdings, Inc.
Mr. Adam Sowatzka, King & Spalding

FIFTH VIRP PROGRESS REPORT

AMC INTERNATIONAL, INC.
310 BROOKHOLLOW INDUSTRIAL BOULEVARD
DALTON, WHITFIELD COUNTY, GEORGIA
HSI SITE NUMBER 10405

PREPARED FOR:

AMC WHITFIELD HOLDINGS, LLC
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SMYRNA, GA 30082

PREPARED BY:

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EarthCon Project No. 02.20140392.15

March 2016

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PG CERTIFICATION

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

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

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





Kristen R. Rivera, P.G.
Senior Geologist

Registration No. 2049
State of Georgia

Date: March 2, 2016

1.0 INTRODUCTION

The AMC International, Inc. facility, located at 310 Brookhollow Industrial Boulevard in Dalton, Whitfield County, Georgia (HSI Site Number 10405) ("Site"), is owned by AMC Whitfield Holdings, LLC ("AMC Holdings"). The Site location is shown in Figure 1. The Voluntary Investigation and Remediation Plan ("VIRP") Application for the Site was submitted to the Georgia Environmental Protection Division ("EPD") on April 12, 2013. The VIRP was approved by EPD in a letter dated August 8, 2013. This Fifth VIRP Progress Report provides a summary of activities conducted at the Site from September 2015 through January 2016 ("Report Period").

2.0 SUMMARY OF SITE ACTIVITIES

During this Report Period, the following activities were conducted:

- October 13, 2015 meeting with EPD;
- Preparation and submittal of the Underground Injection Permit Application (submitted 12/4/215 and approval pending January 31, 2016);
- Change in responsible party from AMC International, Inc. to AMC Whitfield Holdings, LLC submitted to EPD on December 15, 2015;
- A site wide sampling event (December 2015);
- Monitoring well abandonment, well installation, and well maintenance (December 2015);
- Shut down of the groundwater remediation systems (December 2015); and
- Corrective action implementation.

Representatives of AMC Holdings, EarthCon Consultants, Inc. ("EarthCon"), King & Spalding, and EPD met on October 13, 2015 to discuss the results of the Plume Stability Analysis presented in the August 2015 Fourth VIRP Progress Report and the proposed plan for corrective action at the Site, including in situ chemical oxidation ("ISCO") in the Fire Release Area and a monitored natural attenuation ("MNA") pilot test for the Dobbs Area. EPD issued comments on the August 2015 Fourth VIRP Progress Report in a letter dated November 18, 2015. EarthCon, on behalf of AMC Holdings, submitted responses to EPD's November 2015 comments on December 2, 2015. Additional information to fully address EPD's comments is provided in this Progress Report.

2.1 Surface Water

Surface water samples were collected from sample locations ASW-1 Upstream, ASW-1, ASW-2 and ASW-Bypass on December 16, 2015. The surface water sample locations are shown on Figure 2. A description of the field procedures is provided in Appendix A and the field sampling forms are provided in Appendix B.

2.2 Groundwater

2.2.1 Monitoring Well Abandonment, Well Installation, Well Redevelopment, and Well Maintenance

Monitoring well DMW-8/DRW-2 was abandoned on December 8, 2015. Monitoring well MW-24 was installed on December 9, 2015. Notes documenting these activities, along with the boring log and monitoring well construction diagram for well MW-24, are provided along with the field sampling forms in Appendix B.

In the November 18, 2015 comment letter, EPD requested that well MW-23 be redeveloped and sampled using low flow/low volume techniques to collect a representative sample for delineation purposes. Monitoring well MW-23 was redeveloped on December 14, 2015. Recharge was adequate for the well to be purged and sampled using low flow/low volume techniques on December 15, 2015.

In January 2016, damage to well AMW-20 was observed. The well appeared to have been hit by a trespassing vehicle and a piece of the vehicle's bumper was noted on the ground by the well. Due to the impact, the well pad shifted from its original location by approximately one inch and the lid and hinge of the stick up protective casing was bent and not functional. The well pad was shifted back to the original location and the metal lid was repaired and the hinge replaced. The top of casing elevation has been re-surveyed.

2.2.2 Groundwater Sampling

A site wide sampling event was conducted in December 2015. Static water levels were measured for most wells on December 7, 2015. Bedrock wells OBG-W7, MW-23, and MW-24 were measured on December 10, 15, and 16, 2015, respectively. The locations of the monitoring wells are shown on Figure 2. Of the 48 monitoring wells at the Site, only two wells, AMW-9 and DMW-10, could not be sampled. The monitoring well construction details are presented in Table 1 and the water level measurements are presented in Table 2. Field parameters for the December 2015 sampling event are provided in Table 3. A description of the field procedures are presented in Appendix A and the groundwater sampling field forms are provided in Appendix B.

2.3 Dobbs Area Groundwater Remediation System

In the November 18, 2015 comment letter, EPD stated that based on their review of recent groundwater data for monitoring wells near the Dobbs Area groundwater remediation system ("GWRS") and submittals in EPD's release notification and Brownfield Program files, the Dobbs GWRS could be shut down provided the following activities were implemented: 1) abandonment of well DMW-8/DRW-2 and installation of well MW-24; 2) documentation of the completed well receptor survey; 3) quarterly sampling of the Dobbs Area wells for volatile organic compounds

("VOCs") and MNA parameters; and 4) the collection of a surface water sample in the vicinity of historical groundwater sample DSW-1 for VOC analyses.

The Dobbs GWRS was shut down on December 7, 2015. Well DMW-8/DRW-2 was abandoned on December 8, 2015 and well MW-24 was installed on December 9, 2015. Additional information regarding the well receptor survey is presented below. The pumps were removed from the Dobbs Area wells on January 28, 2016 and placed in the Fire Release Area treatment system shed. The first quarterly Dobbs Area MNA Pilot Test sampling event, including collection of the surface water sample near the DSW-1 location, is scheduled for the week of March 28, 2016.

2.3.1 Well Receptor Survey

Results of a preliminary water well survey to determine whether groundwater concentrations in the Dobbs Area and Fire Release Area may impact a downgradient receptor were presented in the Fourth VIRP Progress Report. The preliminary water well survey showed that the area immediately downgradient of the Dobbs Area plume is mostly zoned industrial and primarily consists of properties owned by Cargill, Inc. Residences are located downgradient of the Fire Release Area plume and across the creek from well MW-23. These residences are located on Roberts Circle and Roberts Avenue to the east of the Site and on Callahan Road to the northeast. Dalton Utilities confirmed that the residences on Roberts Circle and Roberts Avenue are connected.

Following the preliminary water well survey, AMC Holdings learned that there was additional information downgradient of the Dobbs Area from Cargill, Inc. Cargill submitted a Georgia Brownfields Eligibility Form and supporting documents for two adjacent properties in Dalton, Georgia located at 206, 208, and 216 Brookhollow Industrial Boulevard SE (the PolyStar LLC Tract) and 292 Focus Drive. Based on information provided in Cargill's Revised Prospective Purchaser Correction Action Plan ("PPCAP") (EnSafe Inc., January 29, 2014), monitoring well MW-03 is located on the southeastern boundary of the 206 Brookhollow Industrial Boulevard property and approximately 160 feet northeast of monitoring well DMW-11. Based on the groundwater elevation provided on the soil boring/monitoring well log for well MW-03 (Appendix C), this well is located hydraulically upgradient of well DMW-11. Additionally, based on the July 14, 2013 analytical results, VOCs were not detected in groundwater samples collected from well MW-03. Constituents detected at well MW-03 were semi-volatile organic compounds ("SVOCs") and are related to processes that occur on that property and are not related to the Dobbs Area plume. The PPCAP was approved by the Brownfield Program on February 4, 2014. Supporting documentation is provided in Appendix C.

A Hazardous Site Response Act ("HSRA") Release Notification was submitted to EPD on December 2, 2013 for the PolyStar LLC Tract for concentrations of metals in groundwater and concentrations of barium and carbon disulfide in soil above applicable notification concentrations. The Release Notification documented groundwater flow direction to the south (Appendix C). A Receptor/Well Survey was provided in the PolyStar Release Notification to identify locations of

public or private domestic supply wells within a three-mile radius. The Release Notification did not identify any active drinking water wells within a three-mile radius of the PolyStar Tract. Additionally, the Release Notification concluded that streams present 1,600 feet to the west, 1,200 feet to the east, and 500 feet to the south appear to provide a hydraulic barrier between the PolyStar Tract and potential downgradient receptors. In a letter dated February 27, 2014, EPD determined that the PolyStar LLC Tract did not have a release to groundwater exceeding a reportable quantity and did not list the property on the HSI (i.e. non-HSI determination).

Based on the information presented in the Cargill PPCAP, PolyStar Tract LLC Release Notification, and based on EPD's non-HSI determination of the PolyStar LLC Tract, there appear to be no receptors downgradient of the Dobbs Area plume. Based on historical analytical data from wells MW-03, DMW-11, and surface water sample locations DSW-1 and DSW-2, constituents in the Dobbs Area plume have not been detected offsite. Results of the March 2016 groundwater and surface water sampling will be used to verify the historical data.

3.0 ANALYTICAL RESULTS

The surface water and groundwater analytical results for the December 2015 sampling events are discussed below. The surface water and groundwater analytical results are summarized in Tables 4 through 6. The laboratory analytical reports are provided in Appendix D.

3.1 Surface Water Analytical Results

Surface water samples were collected on December 16, 2015 from locations ASW-1 Upstream, ASW-1, ASW-2, and ASW-Bypass. Table 4 presents a summary of the surface water analytical results. Cis-1,2-Dichloroethene ("cis-1,2-DCE") was detected above laboratory reporting limits at location ASW-1 Upstream. Concentrations of cis-1,2-DCE, tetrachloroethene ("PCE"), trichloroethene ("TCE"), and vinyl chloride ("VC") were detected above laboratory reporting limits at location ASW-1. Concentrations of cis-1,2-DCE, PCE, and TCE were detected in the sample collected from ASW-2. PCE was detected above laboratory reporting limits at location ASW-Bypass. Concentrations of PCE were greater than the Georgia EPD's Instream Water Quality Standards ("ISWQS") at locations ASW-1 and ASW-2. The TCE concentration at location ASW-2 was also greater than the ISWQS.

3.2 Groundwater Analytical Results

A Site-wide groundwater sampling event was conducted in December 2015. Of the 48 monitoring wells at the Site, only wells AMW-9 and DMW-10 could not be sampled. A summary of the VOC analyses is provided in Table 5 while the MNA parameter results for the December sampling event are summarized in Table 6.

Dobbs Area

Groundwater samples were collected from 11 monitoring wells in the Dobbs Area in December 2015. As shown in Table 5, nine constituents were detected at concentrations above laboratory reporting limits. Of those, seven constituents were present above the delineation criteria including: 1,1,1-trichloroethane ("1,1,1-TCA"), 1,1-dichloroethene ("1,1-DCE"), 1,2-dichloroethane ("1,2-DCA"), PCE, TCE, VC, and 1,4-dioxane. Six of these constituents, including 1,1-DCE, 1,2-DCA, PCE, TCE, VC and 1,4-dioxane were detected at concentrations above the EPD-approved Type 4 RRS.

Due to elevated reporting limits caused by dilutions during laboratory analyses, J-flag values were included in Table 5 because the estimated concentrations were closer to the delineation criteria. Additionally, when the reporting limits were elevated, method detection limits were reported in Table 5 because they were either closer to or below the delineation criteria. A discussion of dilution factors and elevated reporting limits is provided by Pace Analytical Services, Inc. ("Pace") in Appendix D.

Fire Release Area

During the site wide sampling event in December 2015, groundwater samples were collected from 35 monitoring wells. As shown in Table 5, laboratory analytical results indicate the presence of nine constituents at concentrations above laboratory reporting limits. Of those, five constituents, including 1,1-DCE, cis-1,2-DCE, PCE, TCE, and 1,4-dioxane were present at concentrations above delineation criteria. Only four, including cis-1,2-DCE, PCE, TCE, and 1,4-dioxane were present at concentrations above the EPD-approved Type 4 RRS.

Due to the elevated reporting limits caused by dilutions during laboratory analyses, the analytical results for AMW-1 were elevated and concentrations of PCE breakdown products could not be detected. Duplicate sample DUP#2 was collected from AMW-1. Because this was a blind duplicate, Pace ran the sample using stepwise dilution techniques. This method allowed concentrations of PCE and breakdown products to be reported for the DUP#2 sample. Therefore, the results of the DUP#2 sample were used for well AMW-1 in Table 5.

4.0 CONCEPTUAL SITE MODEL

4.1 Groundwater Flow

The water level measurements collected on December 7, 2015 (Table 2) were used to develop a potentiometric surface map for the Site. As shown on Figure 3, groundwater elevation data suggest there is a groundwater ridge oriented along a northeast-southwest trending axis roughly bisecting the building footprint. This ridge appears to be acting as a groundwater divide with groundwater flow diverging from either side of this divide. Groundwater flow west of this divide is

to the west/northwest toward the Dobbs Area. Groundwater flow east of this divide is to the east/southeast toward the Fire Release Area and the creek. Since the Fire Release Area GWRS was shut down, it appears that groundwater flow has re-equilibrated to natural conditions. Elevation data from the bedrock wells were not used in the groundwater contouring.

The soil boring/monitoring well log for well MW-03 located on the Cargill Property northeast of well DMW-11 was evaluated to determine the depth interval screened with respect to well DMW-11. According to the MW-03 log (Appendix C), the well is screened in the surficial aquifer and the water elevation (measured July 2013) is higher than at DMW-11. Therefore, well MW-03 is hydraulically upgradient of DMW-11 and groundwater flows south from the Cargill Property toward well DMW-11. This supports the groundwater flow direction information presented in the December 2013 PolyStar Tract LLC Release Notification (Appendix C).

4.2 Extent of Surface Water Impacts

Surface water samples were collected on December 16, 2015 from surface water sample locations ASW-1 Upstream, ASW-1, ASW-2, and ASW-Bypass. As shown in Table 4, concentrations of PCE were greater than the ISWQS at locations ASW-1 and ASW-2. The TCE concentration at location ASW-2 was also greater than the ISWQS. The concentrations above ISWQS are bracketed within that segment of the stream located on the AMC Holdings' property. It is anticipated that the contaminants detected in the surface water will comply with ISWQS during the course of corrective action. A summary of historical surface water data collected since 2012, along with trend graphs, is provided in Appendix E.

4.3 Extent of Groundwater Impacts

A summary of the constituents detected in groundwater at the Site is provided in Table 5 while the MNA parameter results for the December 2015 event are provided in Table 6. A cross section location map is provided as Figure 4. Extent of groundwater contamination is presented on cross sections provided as Figures 5 through 7. December 2015 groundwater plume isoconcentration maps for the eight primary constituents are provided as Figures 8 through 15. A summary of historical groundwater data collected since 1995, along with trend graphs, is provided in Appendix E.

A Plume Analytics Evaluation including a Ricker Method® Plume Stability Analysis for the Dobbs Area plume and the Fire Release Area plume was presented in the Fourth VIRP Progress Report. The plume analytics evaluation provides an in-depth understanding of the stability of the various site constituent plumes in terms of area, average concentration, and mass indicator for the constituents, as well as to evaluate the overall molar characteristics of the groundwater plume. Many of the plume analytics procedures consist of a statistical evaluation of a static well network over time to establish trends and patterns. When the well network is substantially changed, a new series of plume analytics evaluations with the new well network should be performed. The

trends and analysis for the former well network are still valid; however, with the abandonment of former monitoring point DMW-8/DRW-2 and installation of a new monitoring point MW-24 in December 2015, the plume analytics well network has changed substantially enough to recommend re-setting the plume analytics network. Thus, going forward, we will reset the trends over time in accordance with the new well network. This change will be noted on the Ricker Method® Plume Stability Analysis and the plume difference over time evaluation. Changing the well network, however, does not change the integrity of the data, just the measuring points.

Additionally, due to elevated reporting limits caused by dilutions during laboratory analyses and because the reporting limits were sometimes higher than the June 2015 analytical results, the Ricker Method® Plume Stability Analysis for the Fire Release Area was not updated with the December 2015 sampling results. EarthCon is working with Pace to address these elevated reporting limits for the next site wide sampling event (Appendix D). Therefore, the results of the Ricker Method® Plume Stability Analysis presented in the Fourth VIRP Progress Report will be the baseline for evaluating the post-ISCO VOC data for the Fire Release Area.

Dobbs Area

Analyses of the December 2015 groundwater sampling resulted in concentrations of six constituents, including 1,1-DCE, 1,2-DCA, PCE, TCE, and 1,4-dioxane above the EPD-approved Type 4 RRS (Table 5). Detections of regulated substances in the offsite overburden well OBG-W1 and bedrock well MW-22D continue to be low; however, they are above delineation criteria. These results are consistent with the March and June 2015 sampling events. Additionally, December 2015 results for offsite well DMW-11 were non-detect, which is consistent with the historical data for that well since installation in 2002.

The Dobbs Area plume is delineated to the northwest by overburden wells DMW-11 and MW-03 (Cargill well). The Dobbs Area plume has not been delineated to below delineation criteria in bedrock immediately downgradient. The water well survey has been completed and indicates there are no receptors downgradient of the Dobbs Area plume (Appendix C). The results of the Dobbs Area December 2015 sampling event confirm the results of the Ricker Method® Plume Stability Analysis (Fourth VIRP Progress Report). The Plume Stability Analysis results showed that the total VOC plume is decreasing, which is supported by the stable to decreasing trends in area, average concentration, and mass indicator for the VOC constituents as well as total VOCs. Therefore, because groundwater concentrations in bedrock are low and because of the heavy industrial use of the downgradient properties and lack of direct downgradient receptors, delineation of constituent concentrations in bedrock is considered complete to the extent practicable.

Fire Release Area

Analyses of the December 2015 groundwater sampling resulted in concentrations of four constituents, including cis-1,2-DCE, PCE, TCE, and 1,4-dioxane above the EPD-approved Type

4 RRS. Monitoring well MW-23 was redeveloped on December 14, 2015. Recharge was adequate for the well to be purged and sampled using low flow/low volume techniques on December 15, 2015. VOC samples were collected from the passive diffusion bag ("PDB") sampler on December 11, 2015 as the duplicate sample for this well. Laboratory analyses of the low flow sample resulted in concentrations of cis-1,2-DCE, PCE, TCE, and 1,4-dioxane above the Type 4 RRS. These results are consistent with the January 2015 groundwater results.

The results of the Fire Release Area December 2015 sampling event confirm the results of the Ricker Method® Plume Stability Analysis (Fourth VIRP Progress Report), which indicated a decrease in the PCE plume average concentration and mass indicator and an increase in PCE plume area. Results also showed an increase in plume area, plume average concentration, and mass indicator for TCE, cis-1,2-DCE, and VC. PCE is the predominant constituent as evidenced by a mass indicator orders of magnitude higher than TCE, cis,1-2-DCE, and VC; reductive dechlorination is subtly occurring, but not at an appreciable rate.

The Fire Release Area plume has not been delineated to below delineation criteria in bedrock downgradient of well MW-23. However, results of the well receptor survey indicate there are no drinking water receptors downgradient, which is confirmed by EPD's February 27, 2014 non-HSI listing letter for the PolyStar LLC Tract (Appendix C). Therefore, because groundwater concentrations in bedrock are low and because of the lack of direct downgradient receptors, delineation of constituent concentrations in bedrock is considered complete to the extent practicable. Additionally the concentrations in well MW-23 are anticipated to decrease and comply with RRS during the course of the ISCO corrective action program.

5.0 CORRECTIVE ACTION PLAN IMPLEMENTATION

Groundwater corrective action began in December 2016 for the Dobbs Area and in January 2016 for the Fire Release Area. Details are provided below.

5.1 Dobbs Area – MNA Pilot Test

Based on the results of the Ricker Method® Plume Stability Analysis for the Dobbs Area (Fourth VIRP Progress Report), the plume is stable and decreasing in area, average concentration, and mass indicator. Additionally, degradation of the primary parent constituent 1,1,1-TCA to 1,1-DCE and VC is occurring. An MNA pilot test is currently being conducted for the Dobbs Area. The Dobbs Area GWRS was shut down on December 7, 2016. On December 8, 2015, well DMW-2/DRW-8 was abandoned and replacement monitoring well MW-24 was installed on December 9, 2015 to similar specifications and further downgradient (Figure 2). The groundwater recovery pumps were removed from wells DMW-7/DRW-1 and DMW-9/DRW-3 on January 28, 2016.

The effectiveness of the MNA Pilot Test will be evaluated through collection of groundwater samples from the following 10 monitoring wells:

DMW-1	DMW-2	DMW-6	DMW-7/DRW-1	DMW-9/DRW-3
DMW-11	OBG-W1	OBG-W7	MW-22D	MW-24

The groundwater samples will be collected on a quarterly basis for VOC and MNA analyses. Field parameters including pH, specific conductance, oxidation-reduction potential ("ORP"), dissolved oxygen, and ferrous iron will also be collected. The MNA Pilot Test will be evaluated after 4 quarters and results will be used to update the plume stability evaluation. The first quarterly sampling event is scheduled for the last week of March 2016. A surface water sample will also be collected near the historical surface water sampling location DSW-1 during the March 2016 sampling event and analyzed for VOCs.

5.2 Fire Release Area – ISCO Injection Program

Based on results of the Ricker Method® Plume Stability Analysis for the Fire Release Area, which demonstrated that reductive dechlorination of PCE into daughter products is occurring at a limited rate, a targeted ISCO program was proposed for the Fire Release Area to address the constituents detected above delineation criteria in groundwater. The objective of this ISCO program is to reduce contaminant mass in groundwater and to shrink the plume. Potassium permanganate and sodium permanganate were selected as the oxidants for this area due to their effectiveness in treating chlorinated ethenes and their longevity in the subsurface.

5.2.1 Groundwater

The ISCO injection program in groundwater focuses on the overburden and partially weathered rock ("PWR"). Starting in February 2016, injection borings will be advanced into the PWR using a direct-push drill rig, which will also be used to inject the chemical oxidant solution through the drill rod. The drilling and chemical injection activities will be performed by Redox Tech, LLC. A potassium permanganate slurry will be injected from depths of approximately 13 feet below ground surface ("bgs") to the top of the PWR. As shown on Figure 16, 54 direct push injection borings (IB-1 through IB-54) will be advanced. The final boring locations will be surveyed and staked by the surveyors.

In addition to the direct push locations, sodium permanganate will be injected in existing remediation wells VER-1, VER-2, VER-3, VER-4 and pilot test well I-6. Wells VER-1, VER-2, VER-3, and VER-4 are screened across the overburden and PWR and the pilot test well is screened in the PWR. Sodium permanganate was selected as the oxidant at these locations because a potassium permanganate slurry is too thick to inject through a well screen.

The effectiveness of the groundwater ISCO program will be evaluated through collection of groundwater samples for field measurements from the following 20 monitoring wells:

AMW-1	AMW-2	AMW-3	AMW-6	AMW-8
AMW-9	AMW-10	AMW-11D	AMW-12	AMW-13
AMW-14	AMW-15	AMW-16	AMW-17	DMW-3
DMW-5	DMW-12	ARW-1	ARW-2	ARW-4

Field parameters including pH, specific conductance, ORP, and dissolved oxygen will be collected on a monthly basis for six months. In addition, the color of the water samples will be observed by viewing the sample against a white background to assess the length of time permanganate persists in the aquifer. The first post-ISCO monitoring event is scheduled for the last week of March 2016, in conjunction with the Dobbs Area MNA Pilot Test sampling. Results of the monthly field measurements and VOC results from the June 2016 site wide sampling event will be incorporated into the plume analytics to evaluate the effectiveness of the ISCO event.

Additionally, during the December 2015 sampling event, groundwater samples were collected from wells AMW-8, AMW-10, ARW-1, and ARW-4 for RCRA metals analyses by EPA Methods 6010B and 7470. These results will supplement RCRA metal data collected in 2013 for the ISCO pilot test from wells AMW-1, AMW-2, AMW-3, AMW-9, and AMW-21. Groundwater samples will be collected from these nine wells during the June 2016 post-ISCO site wide sampling event. The pre-ISCO and post-ISCO metals data will be evaluated to determine whether the ISCO injections mobilized metals in groundwater.

5.2.2 Soil

Concentrations of PCE greater than the Type 4 RRS have been observed in soil samples collected from two areas located southeast and east of the building. The soil in these areas is composed primarily of organic-rich sandy and silty shale. Therefore, it is likely that constituents are strongly sorbed to the organics in the soil. Because there is the potential for ISCO treatment to mobilize the constituents in soil, seven soil borings (B-2 through B-6, B-8, and B-9) were installed to refusal depths using a DPT drill rig in January 2016 (Figure 16). The cores were screened with a photoionization detector (“PID”). Based on PID readings and historical soil data, multiple soil samples were collected at various depth intervals from each soil boring and submitted for Synthetic Precipitation Leaching Procedure (“SPLP”) VOC analysis. Results of the SPLP analysis will be presented in the next Progress Report. AMC Holdings will evaluate the need for additional soil remediation based on the results of these samples.

6.0 WORK TO BE PERFORMED IN NEXT REPORT PERIOD

The first Dobbs Area MNA Pilot Test quarterly monitoring and the Fire Release post-ISCO monitoring are scheduled for the last week of March 2016. The second Dobbs MNA Pilot Test quarterly monitoring and the site wide sampling event will occur in June 2016. Results of these

monitoring events will be evaluated to determine the effectiveness of the corrective action strategies.

7.0 MONTHLY INVOICE SUMMARY

EPD requires that a professional engineer or geologist oversee the implementation of the VIRP in accordance with the provisions, purposes, standards and policies of the Georgia Voluntary Remediation Program Act. During the period from September 2015 through January 2016, Ms. Kristen Ritter Rivera, P.G., invoiced 80.25 hours on this project. A monthly summary of hours invoiced and a description of services provided is shown in Table 7.

8.0 SCHEDULE

An estimated project schedule for activities for the next Report Period is provided in Table 8. Activities planned for the sixth 6-month reporting period (March 2016 through August 2016) include the following:

- Complete the Fire Release Area ISCO Injections (February 2016);
- Complete the Fire Release Area ISCO Injection and post-ISCO monitoring (March through June 2016);
- Quarterly Dobbs Area MNA Pilot Test Sampling (March and June 2016);
- Abandon monitoring well DMW-10 (March 2016);
- Survey location and top of casing elevation for well MW-24 (March 2016);
- Semi-annual sampling event (June 2016); and
- Update Plume Stability Evaluation (June 2016).

The Sixth Semi-Annual Progress Report will be submitted by August 24, 2016.

TABLES

TABLE 1. MONITORING WELL CONSTRUCTION DETAILS

Monitoring Well	Installation Date	Abandonment Date	Total Depth feet, BGS	Screened Interval, feet BGS		Screen Length feet	Screened Zone	Top of Casing Elevation feet
				Top	Bottom			
Dobbs Area								
DMW-1	2/21/95	--	53.70	45	55	10	BDRK	776.05
DMW-2	2/22/95	--	55.10	47	57	10	BDRK	775.93
DMW-6	10/4/00*	--	56.04	35	55	20	BDRK	779.43
DMW-7/DRW-1	10/4/00*	--	62	42	62	20	BDRK	775.84
DMW-8/DRW-2	10/4/00*	12/10/15	64	44	64	20	BDRK	772.39
DMW-9/DRW-3	10/4/00*	--	65	45	65	20	BDRK	772.05
DMW-10	3/1/02*	--	60	30	60	30	BDRK	778.32
DMW-11	3/1/02*	--	30	20	30	10	OVB	738.84
OBG-W1	11/21/13	--	45	33	43	10	BDRK	757.85
OBG-W2	11/20/13	--	56	29	39	10	PWR/BRDK	780.91
OBG-W7	11/22/13	--	69	49	69	OH	BDRK	773.34
MW-22D	12/18/14	--	64.56	54	64	10	BDRK	758.32
MW-24	12/10/15	--	59	49	59	10	BDRK	NS
Fire Release Area								
AMW-1	10/8/01	--	28.90	14.75	24.75	10	OVB	760.44
AMW-2	10/9/01	--	41.25	29.75	39.75	10	OVB/PWR	773.95
AMW-3	10/9/01	--	34	20	30	10	OVB	768.29
AMW-4	10/30/01	--	31	18.5	28.5	10	OVB	731.75
AMW-5	11/5/01	--	30	23.5	28.5	5	OVB	745.21
AMW-6	11/6/01	--	25	14.5	24.5	10	OVB	752.96
AMW-7	11/7/01	--	29.5	19.5	29.5	10	OVB	737.45
AMW-8	3/3/02*	--	43	5.5	40.5	35	OVB/PWR	763.93
AMW-9	3/3/02*	--	48	38	48	10	OVB/PWR	778.59
AMW-10	3/3/02*	--	32	21.5	31.5	10	OVB	764.22
AMW-11D	1/14/02	--	93.5	78.5	88.5	10	BDRK	762.76
AMW-12	1/10/02	--	48	38	48	10	BDRK	783.20
AMW-13	1/8/02	--	44	34	44	10	OVB	770.10
AMW-14	1/15/02	--	49	37.5	47.5	10	BDRK	770.28
AMW-15	1/8/02	--	20.5	10	20	10	OVB	754.14
AMW-16	1/16/02	--	33	21.5	31.5	10	OVB/PWR	764.00
AMW-17	1/18/02	--	40	28.5	38.5	10	BDRK	778.33
AMW-18	4/18/02	--	24	12	22	10	OVB	746.45
AMW-19	4/17/02	--	29	19	29	10	OVB	734.40
AMW-20	4/17/02	--	40	29	39	10	OVB	746.93
AMW-21	6/24/03	--	44	34	44	10	OVB	753.12
DMW-3	2/22/95	--	44.82	35	45	10	BDRK	783.14
DMW-5	10/4/00*	--	69.82	50	70	20	BDRK	782.57
DMW-12	1/10/02	--	53.76	30	50	20	BDRK	767.17
DMW-13	1/8/02	--	45.19	35.1	45.1	10	OVB	780.23
DMW-14D	4/1/07*	--	59.2	54.2	59.2	5	BDRK	727.10
DMW-15	4/1/07*	--	31.2	21.2	31.2	10	OVB	728.15
ARW-1	6/30/03	--	56	28	48	20	PWR/BRDK	765.89
ARW-2	7/3/03	--	61	41	61	20	PWR/BRDK	783.24
ARW-3	7/23/03	--	53.4	33.2	53.2	20	PWR/BRDK	750.18
ARW-4	7/24/03	--	61.8	41.6	61.6	20	PWR/BRDK	765.61
OBG-W3	11/18/13	--	42	32	42	10	OVB/PWR	776.45
OBG-W4	11/20/13	--	38	28	38	10	PWR/BRDK	741.56
OBG-W5	11/21/13	--	12.5	7.5	12.5	5	OVB	719.79
OBG-W8	11/18/13	--	49	41.5	49	OH	BDRK	732.99
MW-23	1/7/15	--	57.29	47	57	10	BDRK	762.09
VER-1	12/12/01	--	32.9	7.9	32.9	25	OVB/PWR	727.64
VER-2	1/29/02	--	48	8	48	40	OVB/PWR	730.96
VER-3	2/22/02	--	67	8	67	59	OVB/PWR	719.83
VER-4	4/17/02	--	64.5	9.5	64.5	55	OVB/PWR	728.35

Notes

BGS - below ground surface
OVB - overburden
PWR - partially weathered rock
BDRK - bedrock
OH - open hole
NS - not yet surveyed
***** - installation dates inferred from date of first groundwater sample collected

Prepared by: KAH 2/12/16
Checked by: CDN 2/12/16

TABLE 2. WATER LEVEL MEASUREMENTS

Monitoring Well	Date	Top of Casing Elevation feet, MSL	Depth to Water feet	Total Depth feet	Groundwater Elevation feet, MSL
Dobbs Area					
DMW-1	12/7/15	776.05	36.29	54.48	739.76
DMW-2	12/7/15	775.93	41.79	55.30	734.14
DMW-6	12/7/15	779.43	32.33	55.69	747.10
DMW-7/DRW-1	12/7/15	775.84	36.24	62.50	739.60
DMW-9/DRW-3	12/7/15	772.05	37.48	62.10	734.57
DMW-10	12/7/15	778.32	33.36	60.20	744.96
DMW-11	12/7/15	738.84	22.37	29.88	716.47
OBG-W1	12/7/15	757.85	26.89	46.15	730.96
OBG-W2	12/7/15	780.91	36.27	43.28	744.64
OBG-W7	12/10/15	773.34	37.01	47.15	736.33
MW-22D	12/7/15	758.32	27.25	67.73	731.07
MW-24	12/16/15	NS	34.43	61.68	NC
Fire Release Area					
AMW-1	12/7/15	760.44	18.33	28.81	742.11
AMW-2	12/7/15	773.95	29.09	40.62	744.86
AMW-3	12/7/15	768.29	26.10	34.09	742.19
AMW-4	12/7/15	731.75	14.25	31.79	717.50
AMW-5	12/7/15	745.21	25.78	31.02	719.43
AMW-6	12/7/15	752.96	12.18	27.09	740.78
AMW-7	12/7/15	737.45	20.38	32.79	717.07
AMW-8	12/7/15	763.93	26.70	37.64	737.23
AMW-9	12/7/15	778.59	36.86	47.81	741.73
AMW-10	12/7/15	764.22	23.60	34.96	740.62
AMW-11D	12/7/15	762.76	22.49	90.18	740.27
AMW-12	12/7/15	783.20	35.88	48.17	747.32
AMW-13	12/7/15	770.10	32.95	47.58	737.15
AMW-14	12/7/15	770.28	33.51	50.08	736.77
AMW-15	12/7/15	754.14	12.33	23.05	741.81
AMW-16	12/7/15	764.00	22.00	34.72	742.00
AMW-17	12/7/15	778.33	30.44	40.82	747.89
AMW-18	12/7/15	746.45	19.17	24.80	727.28
AMW-19	12/7/15	734.40	17.80	31.19	716.60
AMW-20	12/7/15	746.93	31.52	41.27	715.41
AMW-21	12/7/15	753.12	35.01	45.97	718.11
DMW-3	12/7/15	783.14	34.65	45.40	748.49
DMW-5	12/7/15	782.57	35.84	70.30	746.73
DMW-12	12/7/15	767.17	27.82	53.72	739.35
DMW-13	12/7/15	780.23	38.15	50.41	742.08
DMW-14D	12/7/15	727.10	15.34	59.41	711.76
DMW-15	12/7/15	728.15	19.19	31.30	708.96
ARW-1	12/7/15	765.89	26.51	45.18	739.38
ARW-2	12/7/15	783.24	33.93	62.00	749.31
ARW-3	12/7/15	750.18	30.56	54.45	719.62
ARW-4	12/7/15	765.61	29.21	61.00	736.40
OBG-W3	12/7/15	776.45	35.95	44.31	740.50
OBG-W4	12/7/15	741.56	24.99	41.80	716.57
OBG-W5	12/7/15	719.79	5.18	15.90	714.61
OBG-W8	12/7/15	732.99	16.08	52.12	716.91
MW-23	12/15/15	762.09	36.04	60.06	726.05

Notes
MSL - mean sea level
NS - not yet surveyed
NC - not calculated

Prepared by: KAH 12/17/2015
Checked by: KRR 02/10/2016

TABLE 3. FIELD PARAMETERS

Sample Location	Date	Temperature °C	pH S.U.	Dissolved Oxygen mg/L	ORP mV	Conductivity µs/cm	Turbidity NTU	Ferrous Iron mg/L
Dobbs Area								
DMW-1	12/15/15	14.85	7.33	4.38	521.3	1157	41.3	0.02
DMW-2	12/15/15	13.50	8.26	6.83	428.7	891	8.8	0.01
DMW-6	12/16/15	17.96	6.91	9.55	-106.4	586	323	NR*
DMW-7/DRW-1	12/16/15	14.99	6.91	7.45	131.8	788	8.10	0.00
DMW-9/DRW-3	12/16/15	11.15	5.81	1.39	91.0	1259	7.70	1.66
DMW-10	not sampled - debris in well							
DMW-11	12/11/15	15.45	5.74	6.30	253.1	226	2.75	0.00
OBG-W1	12/11/15	16.85	5.77	4.10	166.7	115	9.98	0.12
OBG-W1**	12/15/15	16.60	5.93	2.38	259.0	168	7.69	--
OBG-W2	12/15/15	15.09	7.33	10.81	248.5	313	1.11	0.00
OBG-W7	12/16/15	14.80	6.12	0.57	176.8	646	1.60	0.20
MW-22D	12/10/15	16.65	6.98	10.23	136.4	530	1.79	0.00
MW-24	12/16/15	16.81	6.82	6.68	204.6	724	6.98	0.04
Fire Release Area								
AMW-1	12/10/15	16.67	5.58	16.00	191.0	59	5.65	--
AMW-2	12/15/15	16.07	6.19	7.58	134.9	142	8.67	--
AMW-3	12/10/15	13.91	4.82	5.36	239.0	598	0.00	--
AMW-4	12/8/15	11.91	5.35	6.86	464.9	37	0.18	--
AMW-5	12/9/15	14.52	6.31	9.15	150.7	383	1.89	--
AMW-6	12/9/15	14.94	6.31	6.43	305.5	194	0.66	--
AMW-7	12/8/15	14.72	6.11	12.69	170.0	137	5.96	--
AMW-8	12/9/15	14.92	6.82	3.85	120.4	705	0.96	--
AMW-9***	12/16/15	13.51	7.28	5.33	379.9	1995	13.8	--
AMW-10	12/9/15	14.35	5.99	1.62	303.9	218	0.00	--
AMW-11D	12/14/15	15.12	5.78	6.60	155.1	400	1.78	--
AMW-12	12/16/15	15.31	7.69	4.89	221.1	1175	7.8	--
AMW-13	12/14/15	12.79	6.31	2.27	7.4	659	6.6	--
AMW-14	12/14/15	15.42	4.89	5.50	186.5	242	10.0	--
AMW-15	12/9/15	14.77	5.53	8.47	194.1	147	6.24	--
AMW-16	12/10/15	14.71	6.90	11.43	149.0	247	6.41	--
AMW-17	12/14/15	15.95	6.01	10.10	180.0	460	37.7	--
AMW-18	12/9/15	14.22	7.22	6.32	221.3	404	0.52	--
AMW-19	12/8/15	14.47	5.11	12.71	213.6	33	1.36	--
AMW-20	12/11/15	14.84	5.38	6.64	283.3	61	11.1	--
AMW-21	12/11/15	15.47	5.36	6.93	208.0	270	2.07	--
DMW-3	12/14/15	16.91	7.00	5.87	264.0	551	0.78	--
DMW-5	12/14/15	19.18	6.94	2.79	238.9	641	5.21	--
DMW-12	12/10/15	15.69	7.22	3.35	234.6	495	2.98	--
DMW-13	12/14/15	13.09	6.17	4.39	127.0	173	9.89	--
DMW-14D	12/8/15	13.82	9.16	2.93	112.7	664	6.71	--
DMW-15	12/8/15	11.07	6.22	2.77	241.2	156	6.73	--
ARW-1	12/10/15	14.62	7.17	8.61	247.1	488	0.35	--
ARW-2	12/15/15	11.07	7.13	6.05	379.6	968	40.7	--
ARW-3	12/11/15	14.49	6.32	6.74	270.7	240	0.40	--
ARW-4	12/15/15	15.06	6.77	6.89	133.9	571	2.32	--
OBG-W3	12/14/15	14.96	6.59	9.89	171.8	273	7.20	--
OBG-W4	12/9/15	13.82	6.08	8.28	266.8	150	7.89	--
OBG-W5	12/9/15	14.74	6.74	6.79	119.9	429	1.84	--
OBG-W8	12/15/15	13.50	10.04	2.44	210.6	256	6.27	--
MW-23	12/15/15	15.26	6.84	8.00	126.4	341	9.89	--
Surface Water Locations								
ASW-1 UPSTREAM	12/16/15	10.58	7.14	5.04	--	680	5.0	--
ASW-1	12/16/15	10.41	7.26	5.85	--	662	5.7	--
ASW-2	12/16/15	12.42	7.18	5.96	--	776	5.6	--
ASW-BYPASS	12/16/15	16.62	7.42	4.00	--	580	7.60	--

Notes

-- no sample collected or analyzed
mg/L - milligrams per liter
µs/cm - microsiemens per centimeter
NR - no reading
S.U. - standard units
mV - millivolts
NTU - nephelometric turbidity units

Prepared by: RA 12/17/15
Checked by: CDN 2/15/16

* - Diluted ferrous iron to maximum limit (5 drops of sample to 25 mL of deionized water) and still exceeded reading limit
** - OBG-W1 was purged and resampled for nitrates only; initial sample analyzed outside the 48-hour hold time
*** - sample not collected for laboratory analysis due to the presence of permanganate

TABLE 4. SUMMARY OF SURFACE WATER ANALYTICAL RESULTS

Constituents (mg/L)		cis-1,2-DCE	PCE	TCE	Vinyl Chloride
ISWQS (mg/L)		NA	0.0033	0.03	0.0024
Sample Location	**Date**				
ASW-1 UPSTREAM	12/16/15	0.0015	<0.001	< 0.001	< 0.001
ASW-1*	12/16/15	0.033	**0.36**	**0.019**	0.0019 J
ASW-2	12/16/15	0.0055	**0.035**	0.003	< 0.001
ASW-BYPASS	12/16/15	<0.001	0.003	< 0.001	< 0.001

Notes:

ISWQS - GA EPD Instream Water Quality Standards (391-3-6)

mg/L - micrograms per liter

* - elevated detection limits

J - estimated concentration

NA - not available

Bold - concentration greater than ISWQS

Prepared by: SNW 1/4/2016

Checked by: CDN 2/15/2016

TABLE 5 - SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Constituent (mg/L)		1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl chloride	1,4-Dioxane
Delineation Criteria (mg/L)		0.2	4	0.007	0.005	0.07	0.005	0.1	0.005	0.002	DL
Type 4 RRS (mg/L)		13	NC	0.52	0.005	0.204	0.098	0.16	0.00524	0.00327	0.01
Sample Location	**Date**	***Dobbs Area***									
DMW-1	12/15/15	**0.40**	0.012	**0.65**	0.0019 J	< 0.005	0.0040 J	< 0.005	< 0.005	< 0.0031*	**0.011**
DMW-2	12/15/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0065**
DMW-6	12/16/15	0.031	0.011	**0.016**	< 0.001	0.043	**0.22**	< 0.001	**0.031**	**0.016**	**0.014**
DMW-7/DRW-1	12/16/15	**9.8**	0.083 J	**12.8**	**0.056 J**	< 0.019*	**0.061 J**	< 0.1	< 0.047*	< 0.062*	**0.019**
DMW-9/DRW-3	12/16/15	**1.3**	0.044	**1.6**	**0.0089 J**	0.022	< 0.0092*	< 0.02	< 0.0094*	< 0.012*	**0.017**
DMW-10	not sampled - debris in well										
DMW-11	12/11/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
OBG-W1	12/11/15	**0.53**	0.0029	**0.20**	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0016*	< 0.002
OBG-W2	12/15/15	0.0020	< 0.001	< 0.001	< 0.001	< 0.001	0.0015	< 0.001	< 0.001	< 0.001	< 0.002
OBG-W7	12/16/15	**2.9**	0.12	**2.5**	**0.018 J**	0.050	**0.020 J**	< 0.04	**0.027 J**	< 0.025*	**0.062**
MW-22D	12/10/15	0.17	0.014	**0.12**	< 0.001	< 0.001	0.0034	< 0.001	< 0.001	< 0.001	< 0.002
MW-24	12/16/15	**9.5**	0.63	**4.7**	**0.016 J**	< 0.05	< 0.023*	< 0.05	< 0.024*	< 0.031*	**0.0092**
		Fire Release Area									
AMW-1**	12/10/15	< 0.01	< 0.01	< 0.0056*	< 0.0024*	**0.10**	**127**	< 0.01	**0.047**	< 0.0062*	< 0.002
AMW-2	12/15/15	< 0.02	< 0.02	< 0.011*	< 0.0048*	< 0.02	**2.1**	< 0.02	< 0.0094*	< 0.012*	< 0.002
AMW-3	12/10/15	< 0.12*	< 0.25	< 0.14*	< 0.06*	< 0.048*	**27.2**	< 0.12*	< 0.12*	< 0.16*	< 0.002
AMW-4	12/8/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
AMW-5	12/9/15	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	**0.48**	< 0.0025	< 0.0025	< 0.0016*	**0.0025**
AMW-6	12/9/15	0.0069	< 0.001	0.0034	< 0.001	0.0024	**0.35**	< 0.001	0.0038	< 0.001	< 0.002
AMW-7	12/8/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.024**	< 0.001	< 0.001	< 0.001	< 0.002
AMW-8	12/9/15	< 0.1	< 0.1	< 0.056*	< 0.024*	< 0.019*	**13.6**	< 0.049*	< 0.047*	< 0.062*	**0.0049**
AMW-9	not sampled - permanganate present										
AMW-10	12/9/15	< 0.12*	< 0.25	< 0.14*	< 0.06*	< 0.048*	**22.6**	< 0.12*	< 0.12*	< 0.16*	**0.0041**
AMW-11D	12/14/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0064**	< 0.001	< 0.001	< 0.001	< 0.002
AMW-12	12/16/15	< 0.1	< 0.1	< 0.056*	< 0.024*	**0.50**	**13.0**	< 0.1	**0.51**	< 0.062*	NA
AMW-13	12/14/15	< 0.2	< 0.2	< 0.11*	< 0.048*	**1.1**	**22.2**	< 0.098*	**0.67**	< 0.12*	< 0.002
AMW-14	12/14/15	< 0.0025	< 0.0025	< 0.0025	< 0.0025	0.034	**0.29**	< 0.0025	**0.015**	< 0.0016*	< 0.002
AMW-15	12/9/15	< 0.001	< 0.001	< 0.001	< 0.001	0.026	**0.20**	< 0.001	**0.013**	< 0.001	< 0.002
AMW-16	12/10/15	< 0.01	< 0.01	< 0.0056*	< 0.0024*	< 0.01	**2.3**	< 0.01	**0.011**	< 0.0062*	< 0.002
AMW-17	12/14/15	0.028	< 0.001	0.0057	< 0.001	< 0.001	0.0024	< 0.001	< 0.001	< 0.001	**0.0034**
AMW-18	12/9/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0016	< 0.001	< 0.001	< 0.001	< 0.002
AMW-19	12/8/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
AMW-20	12/11/15	< 0.001	< 0.001	< 0.001	< 0.001	0.0030	**0.072**	< 0.001	< 0.001	< 0.001	< 0.002
AMW-21	12/11/15	< 0.2	< 0.2	< 0.11*	< 0.048*	**0.86**	**17.9**	< 0.098*	**0.40**	< 0.12*	< 0.002
DMW-3	12/14/15	0.13	< 0.05	**0.17**	< 0.012*	**0.69**	**3.2**	< 0.05	**0.19**	< 0.031*	**0.11**

TABLE 5 - SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Constituent (mg/L)		1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl chloride	1,4-Dioxane
Delineation Criteria (mg/L)		0.2	4	0.007	0.005	0.07	0.005	0.1	0.005	0.002	DL
Type 4 RRS (mg/L)		13	NC	0.52	0.005	0.204	0.098	0.16	0.00524	0.00327	0.01
DMW-5	12/14/15	0.019	0.0062	**0.035**	< 0.005	**0.20**	**0.66**	0.0074	**0.56**	< 0.0031*	**0.0061**
DMW-12	12/10/15	< 0.12*	< 0.25	< 0.14*	< 0.06*	**0.25 J**	**34.9**	< 0.12*	**0.32**	< 0.16*	**0.0028**
DMW-13	12/14/15	< 0.005	< 0.005	0.0033 J	< 0.005	< 0.005	**0.94**	< 0.005	**0.0094**	< 0.0031*	**0.0029**
DMW-14D	12/8/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
DMW-15	12/8/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
ARW-1	12/10/15	< 0.19*	< 0.4	< 0.22*	< 0.096*	< 0.076*	**36.0**	< 0.2*	**0.35 J**	< 0.25*	**0.0027**
ARW-2	12/15/15	0.026	< 0.01	**0.020**	< 0.0024*	**0.12**	**1.4**	0.0059 J	**0.054**	< 0.0062*	**0.0027**
ARW-3	12/11/15	< 0.001	< 0.001	< 0.001	< 0.001	**0.49**	**11.8**	0.0014	**0.27**	0.0010	< 0.002
ARW-4	12/15/15	< 0.2	< 0.2	< 0.11*	< 0.048*	**2.3**	**25.2**	< 0.098*	**0.96**	< 0.12*	**0.0023**
OBG-W3	12/14/15	0.012	< 0.001	0.0038	< 0.001	0.0028	**0.086**	< 0.001	0.0024	< 0.001	< 0.002
OBG-W4	12/9/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
OBG-W5	12/9/15	< 0.05	< 0.05	< 0.028*	< 0.012*	**0.14**	**4.2**	< 0.05	**0.072**	< 0.031*	< 0.002
OBG-W8	12/15/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0014	< 0.001	< 0.001	< 0.001	< 0.002
MW-23	12/11/15 (PDB DUP)	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0013	< 0.001	< 0.001	< 0.001	NA
	12/15/15	0.050	0.0066	**0.056**	< 0.001	**0.41**	**1.1**	0.015	**0.65**	< 0.001	**0.11**

Notes

Delineation Criteria equals Type 1 Risk Reduction Standard (RRS)

mg/L - milligrams per liter

DL - Detection Limit

J - Estimated concentration

Bold - Concentration above delineation criteria

Bold and Shaded - Concentration above EPD approved Type 4 RRS

NC - not calculated; concentrations not detected above delineation criteria

NA - not analyzed

PDB DUP - duplicate sample collected from a passive diffusion bag

* method detection limit (MDL); sample diluted due to matrix interference

** DUP-2 data

Prepared by: SNW 1/12/16

Checked by: CDN 2/15/16

TABLE 6. GROUNDWATER MNA RESULTS

Monitoring Well	Date	TOC mg/L	Sulfide mg/L	Chloride mg/L	Nitrogen, Nitrate mg/L	Sulfate mg/L	Ethane mg/L	Ethene mg/L	Methane mg/L	Alkalinity mg/L
Dobbs Area										
DMW-1	12/15/15	1.6	< 0.1	2.6	0.037	5.7	< 0.01	< 0.01	0.0021 J	246
DMW-2	12/15/15	0.91 J	< 0.1	1.9	0.17	24.4	< 0.01	< 0.01	0.0036 J	160
DMW-6	12/16/15	2.6	< 0.1	2.2	< 0.02	10.2	< 0.01	0.012	0.33	289
DMW-7/DRW-1	12/16/15	1.9	< 0.1	74.3	< 0.02	8.3	< 0.01	< 0.01	0.049	292
DMW-9/DRW-3	12/16/15	5.2	< 0.1	28.1	< 0.02	3.1	< 0.01	< 0.01	1.1	192
DMW-11	12/11/15	1.1	< 0.1	5.4	0.62	11.5	< 0.01	< 0.01	0.0013 J	71.2
OBG-W1	12/11/15	< 1	< 0.1	5.1	1.6*	2.0	< 0.01	< 0.01	0.0013 J	34.2
	12/15/15	NA	NA	NA	1.6	NA	NA	NA	NA	56.3
OBG-W2	12/15/15	< 1	< 0.1	1.6	0.11	4.9	NA	NA	0.0033 J	135
OBG-W7	12/16/15	1.8	< 0.1	35.3	< 0.02	4.5	< 0.01	< 0.01	1.8	274
MW-22D	12/10/15	0.70 J	< 0.1	13.5	1.2	12.6	< 0.01	< 0.01	0.0016 J	228
MW-24	12/16/15	1.5	< 0.1	36.5	< 0.02	8.1	< 0.01	0.0042 J	0.039	286

Notes

mg/L - milligrams per liter

TOC - total organic carbon

J - Estimated Concentration

NA - not analyzed

* - estimated concentration, sample analyzed outside of 48-hour hold time

Prepared by: SNW 1/4/16

Checked by: CDN 2/15/16

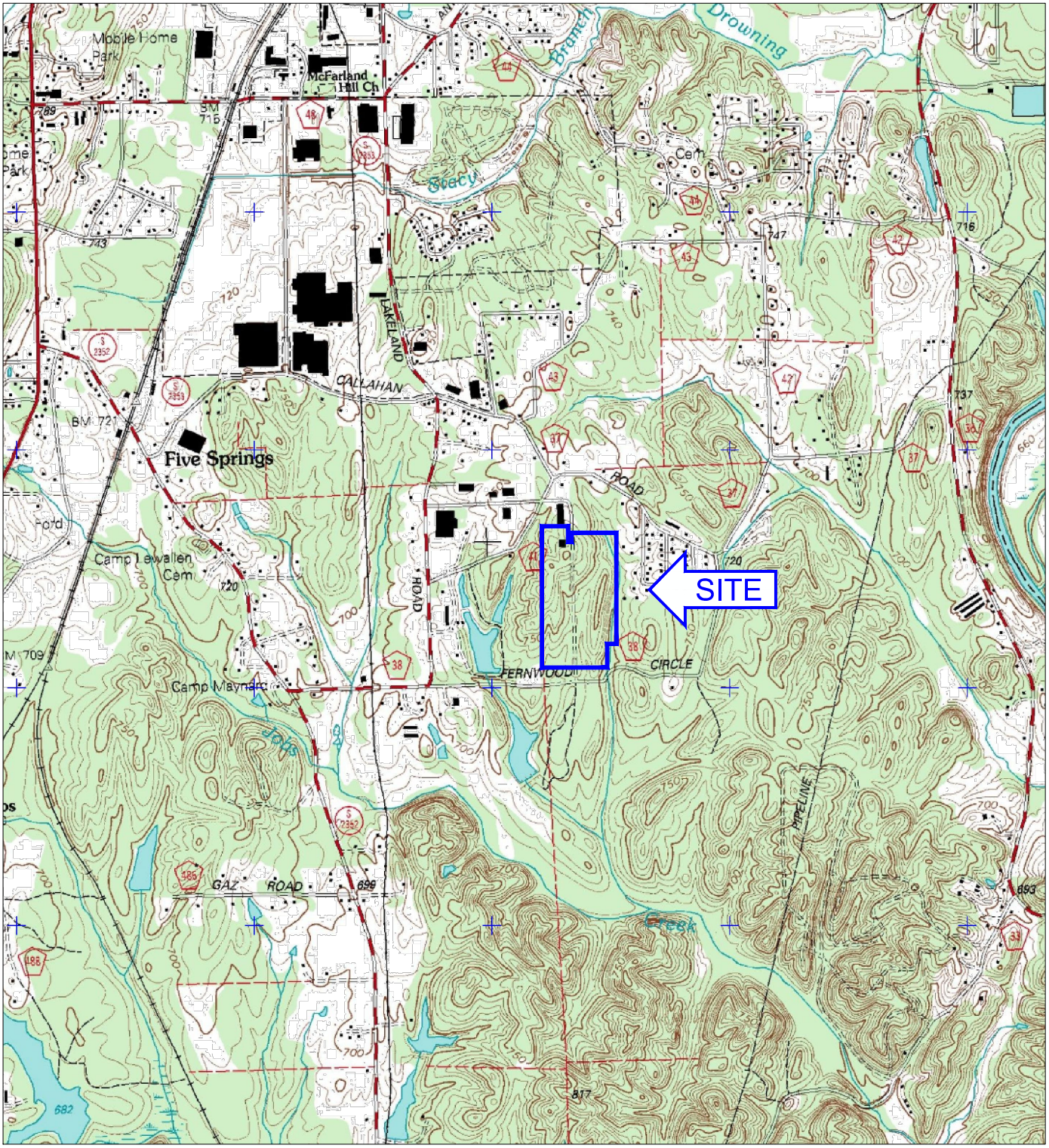
TABLE 7: SUMMARY OF MONTHLY INVOICES

Month	Hours Billed by Kristen Rivera, P.G.	Description of Activities
Sept 2015	7	– General consultation/project management – Due diligence support – Preparation of the Underground Injection Control (UIC) permit application
Oct 2015	11.75	– General consultation/project management – Data assessment – October 13, 2015 meeting with EPD – Correspondence with EPD regarding shut down of the Dobbs groundwater remediation system – Reviewed Cargill information and PolyStar Release Notification to complete receptor survey
Nov 2015	12.25	– General consultation/project management – Preparing for Dec 2015 Field Activities
Dec 2015	18.5	– General consultation/project management – Site wide monitoring event – Abandoned DMW-8/DRW-2, redeveloped MW-23, installed MW-24 – Preparation and submittal of UIC permit application – Preparation and submittal of the Response to EPD's Comments regarding the Fourth VIRP Progress Report – Preparation and submittal of a letter to EPD regarding change in property ownership
Jan 2016	30.75	– General consultation/project management – Data assessment – Site preparation for implementation of the Fire Release Area ISCO corrective action program – Removal and storage of groundwater pumps from Dobbs Area and Fire Release Area recovery wells – Preparation of the Fifth VIRP Progress Report

TABLE 8: PROJECTED MILESTONE SCHEDULE

Date	Activity
August 8, 2013	*VRP Application Approved*
February 14, 2014	*First VIRP Progress Report*
August 12, 2014	*Second VIRP Progress Report*
February 18, 2015	*Third VIRP Progress Report*
August 31, 2015	*Fourth VIRP Progress Report*
December 2015	*Well Abandonment/Re-Installation – Dobbs Area* *Begin MNA Pilot Test - Dobbs Area* *Site Wide Semi-Annual Sampling Event*
January 2016	*Prepare Site for ISCO Injection Corrective Action* *Prepare Fifth VIRP Progress Report*
February 2016	Implement ISCO Injection Program – Fire Release Area Fifth VIRP Progress Report
March 2016	First MNA Quarterly Sampling Event – Dobbs Area First Post-ISCO Monthly Sampling Event – Fire Release Area
April 2016	Second Post-ISCO Monthly Sampling Event – Fire Release Area
May 2016	Third Post-ISCO Monthly Sampling Event – Fire Release Area
June 2016	Second MNA Quarterly Sampling Event – Dobbs Area Site Wide Semi-Annual Sampling Event
August 2016	Sixth VIRP Progress Report
September 2016	Third MNA Quarterly Sampling Event – Dobbs Area
December 2016	Fourth MNA Quarterly Sampling Event – Dobbs Area Semi-Annual Sampling Event
February 2017	Seventh VIRP Progress Report Second ISCO Injection Event – Fire Release Area
June 2017	Site Wide Semi-Annual Sampling Event
August 2017	Eighth VIRP Progress Report
December 2017	Site Wide Semi-Annual Sampling Event
February 2018	Ninth VIRP Progress Report
June 2018	Site Wide Semi-Annual Sampling Event
August 2018	Compliance Status Report

FIGURES



SOURCE: MAPCARD TOPOGRAPHIC MAP, DALTON, GEORGIA

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DALTON, WHITFIELD COUNTY, GEORGIA
HSI SITE NUMBER 10405
PROJECT NO. 02.20140392.15

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SITE LOCATION

DRAWN:	CHECKED:	DATE:	FIGURE:
SNW	KRR	JUL 18, 2015	1

FILENAME: site location and tax into.dwg

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N

OBG-W2
MW-24
DMW-9/DRW-3
MW-22D
OBG-W1
OBG-W7
DMW-2
DMW-8/DRW-2
DMW-7/DRW-1
DMW-1
OBG-W3
DMW-13
AMW-17
DMW-6
AMW-16
AMW-2
AMW-6
VER-2
AMW-15
VER-1
AMW-1
DMW-10
AMW-9
AMW-12
DMW-3
DMW-5
AMW-18
AMW-10
VER-3
AMW-3
AMW-8
AMW-11D
ARW-2
AMW-13
AMW-5
DMW-12
OBG-W8
AMW-14
VER-4
ARW-4
AMW-4
AMW-7
ARW-1
MW-23
AMW-19
AMW-20
AMW-21
ARW-3
OBG-W4
OBG-W5
ASW-BYPASS
ASW-1
ASW-1 UPSTREAM
DMW-14D
ASW-2
DMW-15

STORMWATER POND

GRAVEL ENTRANCE ROAD
GRAVEL AREA
GRAVEL DRIVE
ASPHALT

0 75 150 300
APPROXIMATE SCALE IN FEET

LEGEND

AMW-1	OVERBURDEN/PWR MONITORING WELL
DMW-1	BEDROCK MONITORING WELL
VER-1	OVERBURDEN/PWR RECOVERY WELL
ARW-1	BEDROCK RECOVERY WELL
ASW-1	SURFACE WATER SAMPLE LOCATION
DMW-8/DRW-2	ABANDONED MONITORING WELL
	PROPERTY BOUNDARY
	CREEK
	GROUNDWATER REMEDIATION SYSTEM SHED

SOURCE: TERRAMARK PROFESSIONAL LAND SURVEY (6-11-2014)

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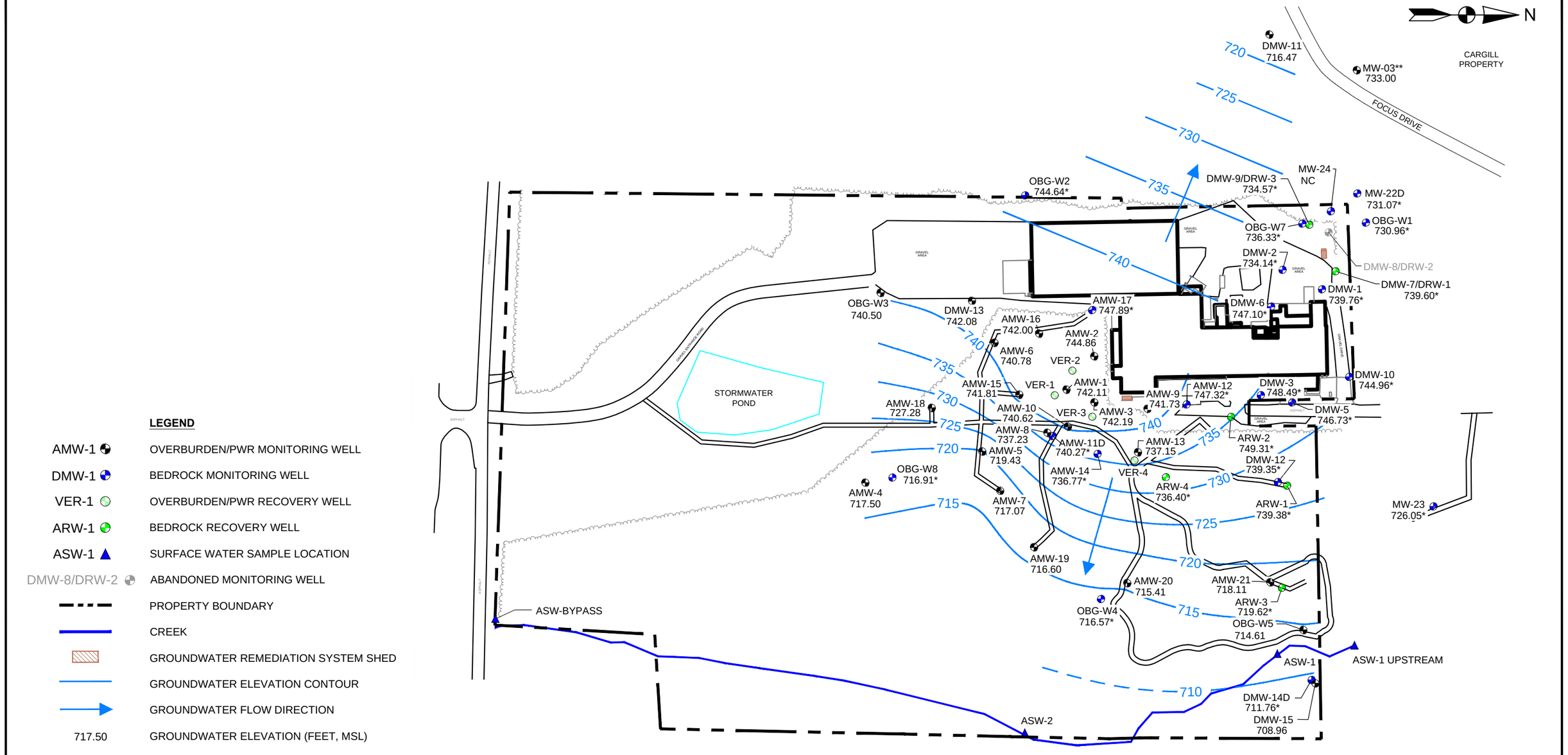
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GROUNDWATER MONITORING WELL AND SURFACE WATER SAMPLE LOCATIONS

DRAWN:	CHECKED:	DATE:	FIGURE:
SNW	CDN	FEB 16, 2016	2

FILENAME: pot map3.dwg

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LEGEND

AMW-1	OVERBURDEN/PWR MONITORING WELL
DMW-1	BEDROCK MONITORING WELL
VER-1	OVERBURDEN/PWR RECOVERY WELL
ARW-1	BEDROCK RECOVERY WELL
ASW-1	SURFACE WATER SAMPLE LOCATION
DMW-8/DRW-2	ABANDONED MONITORING WELL
	PROPERTY BOUNDARY
	CREEK
	GROUNDWATER REMEDIATION SYSTEM SHED
	GROUNDWATER ELEVATION CONTOUR
	GROUNDWATER FLOW DIRECTION
717.50	GROUNDWATER ELEVATION (FEET, MSL)
NC	NOT CALCULATED
*	BEDROCK WELL, ELEVATION NOT USED IN CONTOURING
**	CARGILL MONITORING WELL (MEASURED 7/13/2013)

0 100 200 400

APPROXIMATE SCALE IN FEET

SOURCE: TERRAMARK PROFESSIONAL LAND SURVEY (6-11-2014)

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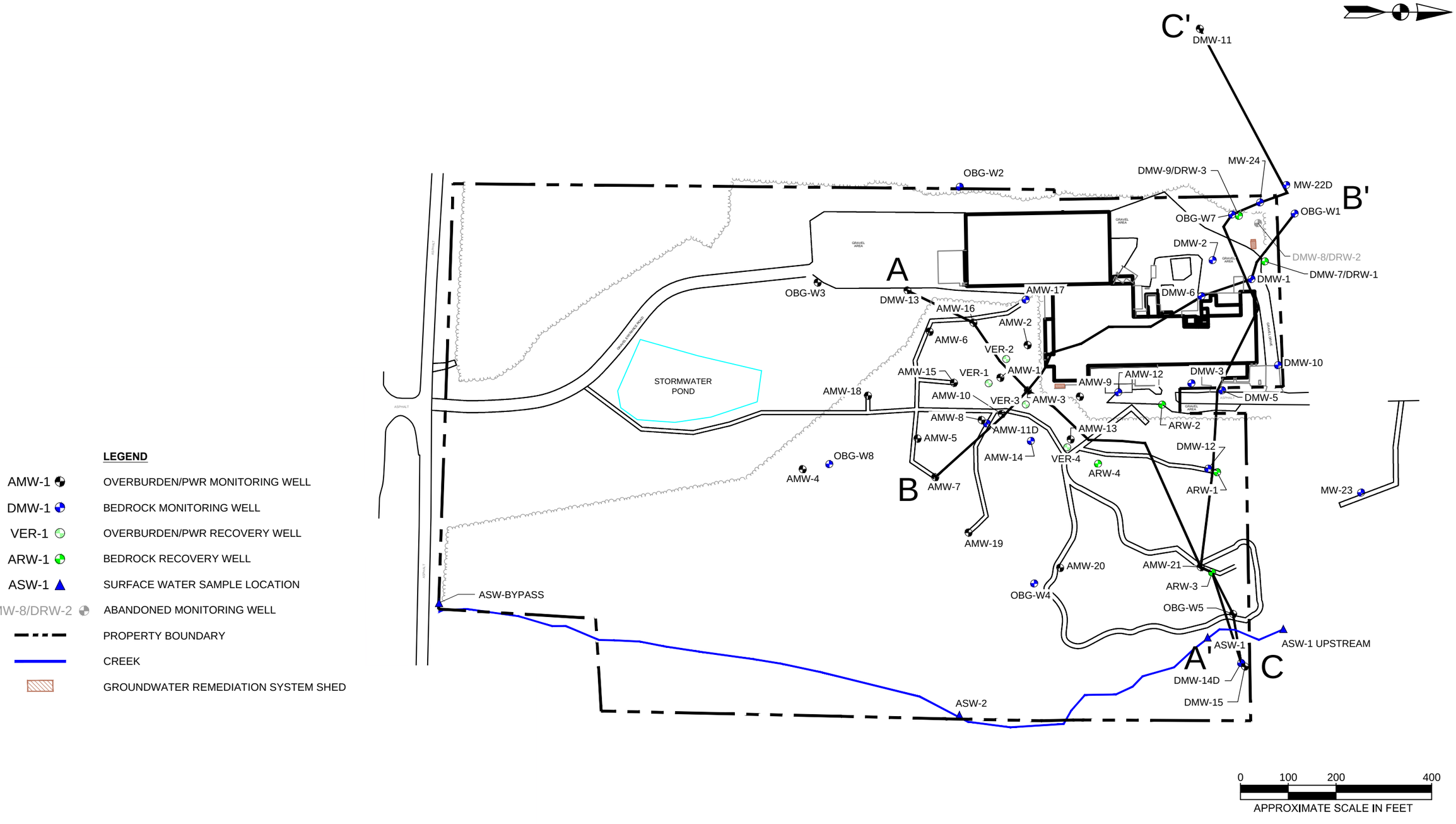
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POTENTIOMETRIC SURFACE MAP DECEMBER 7, 2015

DRAWN:	CHECKED:	DATE:	FIGURE:
SNW	CDN	FEB 16, 2016	3

FILENAME: pot map3.dwg

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LEGEND

AMW-1	OVERBURDEN/PWR MONITORING WELL
DMW-1	BEDROCK MONITORING WELL
VER-1	OVERBURDEN/PWR RECOVERY WELL
ARW-1	BEDROCK RECOVERY WELL
ASW-1	SURFACE WATER SAMPLE LOCATION
DMW-8/DRW-2	ABANDONED MONITORING WELL
	PROPERTY BOUNDARY
	CREEK
	GROUNDWATER REMEDIATION SYSTEM SHED

SOURCE: TERRAMARK PROFESSIONAL LAND SURVEY (6-11-2014)

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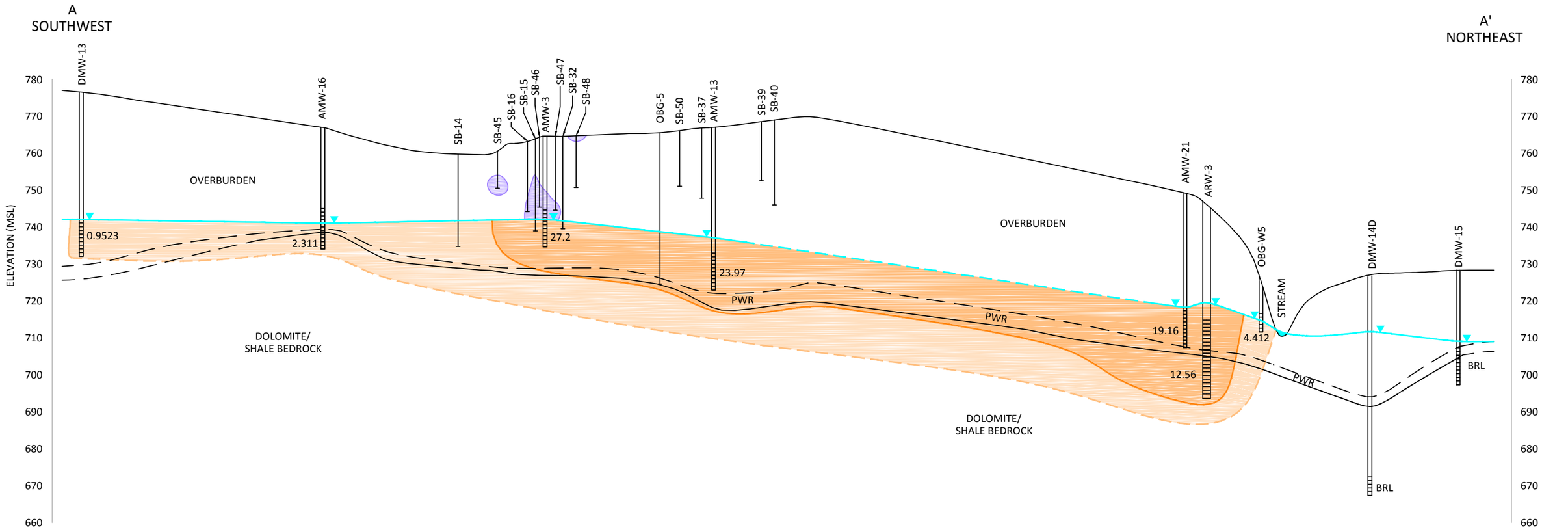
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CROSS SECTION LOCATION MAP

DRAWN:	CHECKED:	DATE:	FIGURE:
SNW	CDN	FEB 16, 2016	4

FILENAME: pot map3.dwg

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30

APPROXIMATE SCALE (FEET)

120

LEGEND

PWR	PARTIALLY WEATHERED ROCK
OVERBURDEN	CLAY AND SILT
▼	GROUNDWATER ELEVATION (DECEMBER 2015)
	TOTAL CVOC GROUNDWATER PLUME GREATER THAN DELINEATION CRITERIA (DC)
	TOTAL CVOC CONCENTRATION IN SOIL GREATER THAN DC
BDC	BELOW DC
BRL	BELOW REPORTING LIMIT
	SCREEN INTERVAL
	BORING
— — —	DASHED WHERE INFERRED
19.16	TOTAL CVOC CONCENTRATION (mg/L) IN GROUNDWATER GREATER THAN DC (DECEMBER 2015)

SOURCE: AMEC VOLUNTARY INVESTIGATION AND REMEDIATION PLAN (MAY 2012, REVISED JUNE 22, 2012, REVISED APRIL 12, 2013

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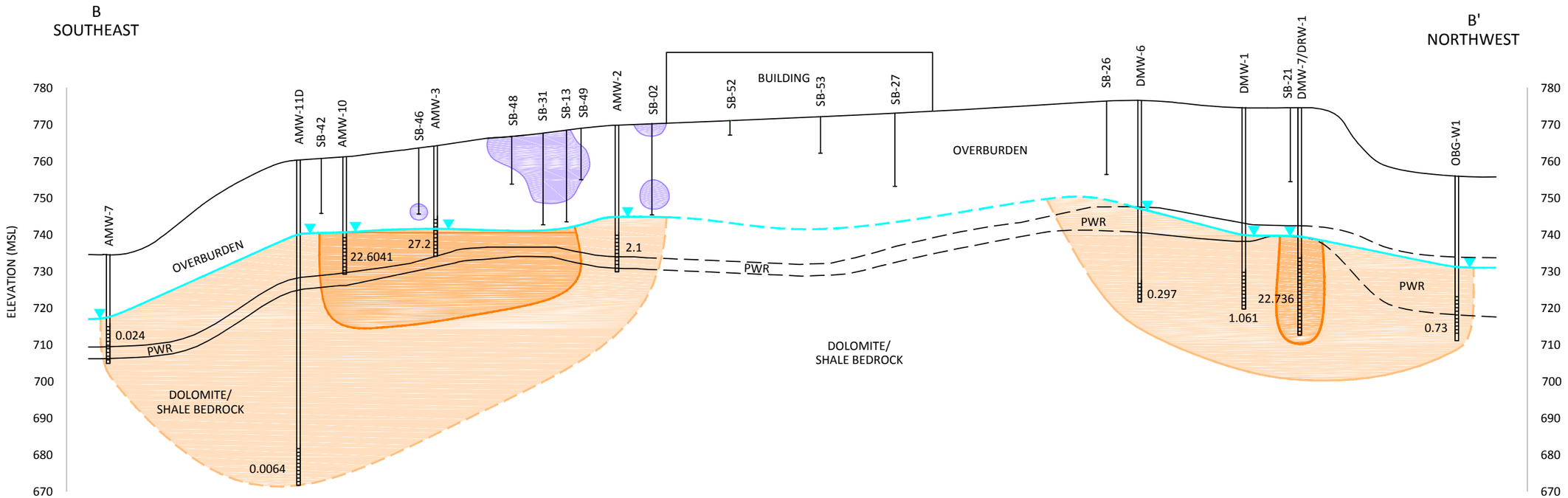
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CROSS SECTION A-A'

DRAWN:	CHECKED:	DATE:	FIGURE:
SNW	CDN	FEB 16, 2016	5

FILENAME: a-a'.dwg

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30
APPROXIMATE SCALE (FEET)
90

LEGEND

PWR	PARTIALLY WEATHERED ROCK		SCREEN INTERVAL
OVERBURDEN	CLAY AND SILT		BORING
	GROUNDWATER ELEVATION (DECEMBER 2015)	— — —	DASHED WHERE INFERRED
	TOTAL CVOC GROUNDWATER PLUME GREATER THAN DELINEATION CRITERIA (DC)	27.2	TOTAL CVOC CONCENTRATION (mg/L) IN GROUNDWATER GREATER THAN DC (DECEMBER 2015)
	TOTAL CVOC CONCENTRATION IN SOIL GREATER THAN DC		
BDC	BELOW DC		
BRL	BELOW REPORTING LIMIT		

SOURCE: AMEC VOLUNTARY INVESTIGATION AND REMEDIATION PLAN (MAY 2012, REVISED JUNE 22, 2012, REVISED APRIL 12, 2013

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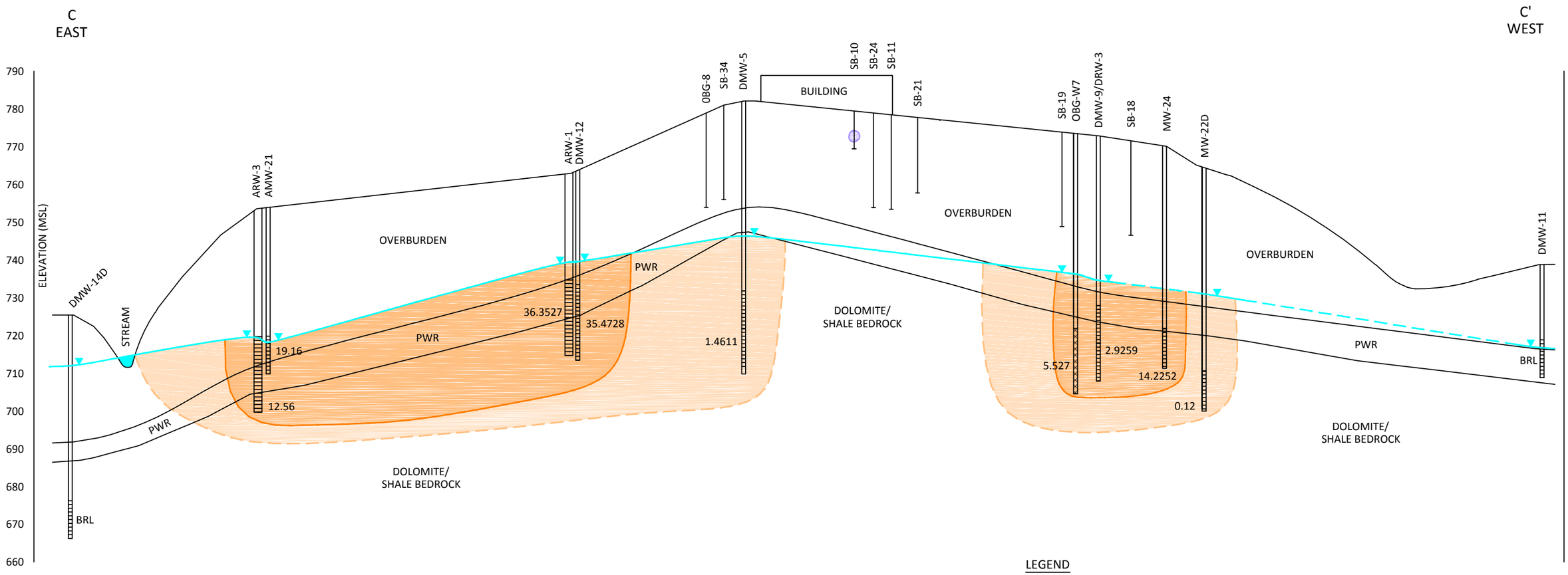
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CROSS SECTION B-B'

DRAWN:	CHECKED:	DATE:	FIGURE:
SNW	CDN	FEB 16, 2016	6

FILENAME: a-a'.dwg

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30

APPROXIMATE SCALE (FEET)

120

LEGEND

PWR	PARTIALLY WEATHERED ROCK		SCREEN INTERVAL
OVERBURDEN	CLAY AND SILT		BORING / OPEN HOLE
	GROUNDWATER ELEVATION (DECEMBER 2015)		DASHED WHERE INFERRED
	TOTAL CVOC GROUNDWATER PLUME GREATER THAN DELINEATION CRITERIA (DC)	12.56	TOTAL CVOC CONCENTRATION (mg/L) IN GROUNDWATER GREATER THAN DC (DECEMBER 2015)
	TOTAL CVOC CONCENTRATION IN SOIL GREATER THAN DC		
BDC	BELOW DC		
BRL	BELOW REPORTING LIMIT		

SOURCE: AMEC VOLUNTARY INVESTIGATION AND REMEDIATION PLAN (MAY 2012, REVISED JUNE 22, 2012, REVISED APRIL 12, 2013

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CROSS SECTION C-C'

DRAWN:	CHECKED:	DATE:	FIGURE:
SNW	CDN	FEB 16, 2016	7

FILENAME: a-a'.dwg

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LEGEND

AMW-1	Overburden/PWR Monitoring Well
DMW-1	Bedrock Monitoring Well
VER-1	Overburden/PWR Recovery Well
ARW-1	Bedrock Recovery Well
ASW-1	Surface Water Sample Location
DMW-8/DRW-2	Abandoned Monitoring Well
mg/L	milligrams per liter
[36.0]	Concentration (mg/L)
[NS (22)]	Well Not Sampled (Historical Concentration)
	General Groundwater Flow Direction
	Approximate Property Boundary
	Creek

OBG-W2 [0.0015]
DMW-9/DRW-3 [< 0.0092]
MW-24 [< 0.023]
MW-22D [0.0034]
OBG-W7 [0.020 J]
OBG-W1 [< 0.0025]
DMW-8/DRW-2
DMW-7/DRW-1 [0.061 J]
DMW-2 [< 0.001]
DMW-1 [0.004 J]
DMW-6 [0.22]
OBG-W3 [0.086]
DMW-13 [0.94]
AMW-17 [0.0024]
AMW-16 [2.3]
AMW-6 [0.35]
VER-2
AMW-2 [2.1]
VER-1
AMW-3 [27.2]
AMW-15 [0.20]
AMW-1 [127]
DMW-10 [NS (<0.001)]
DMW-3 [3.2]
DMW-5 [0.66]
AMW-18 [0.0016]
AMW-9 [NS (22)]
AMW-12 [13.0]
VER-3
ARW-2 [1.4]
AMW-8 [13.6]
AMW-10 [22.6]
AMW-13 [22.2]
AMW-5 [0.48]
AMW-11D [0.0064]
AMW-14 [0.29]
VER-4
OBG-W8 [0.0014]
AMW-4 [< 0.001]
ARW-4 [25.2]
DMW-12 [34.9]
ARW-1 [36.0]
AMW-7 [0.024]
MW-23 [1.1]
AMW-19 [< 0.001]
AMW-20 [0.072]
AMW-21 [17.9]
ARW-3 [11.8]
OBG-W4 [< 0.001]
OBG-W5 [4.2]
ASW-1
ASW-1 UPSTREAM
DMW-14D [< 0.001]
DMW-15 [< 0.001]
ASW-BYPASS
ASW-2
GRAVEL AREA
GRAVEL ENTRANCE ROAD
GRAVEL DRIVE
DETENTION POND
ASPHALT

Map Scale (ft)

0 150 300

Delineation Criteria = 0.005 mg/L

Concentration (mg/L)

0.005 0.01 0.1 0.5 1 5 10 20 40 60

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

AMC International, Inc.
310 Brookhollow Industrial Boulevard
Dalton, Whitfield County, Georgia
HSI Site Number 10405

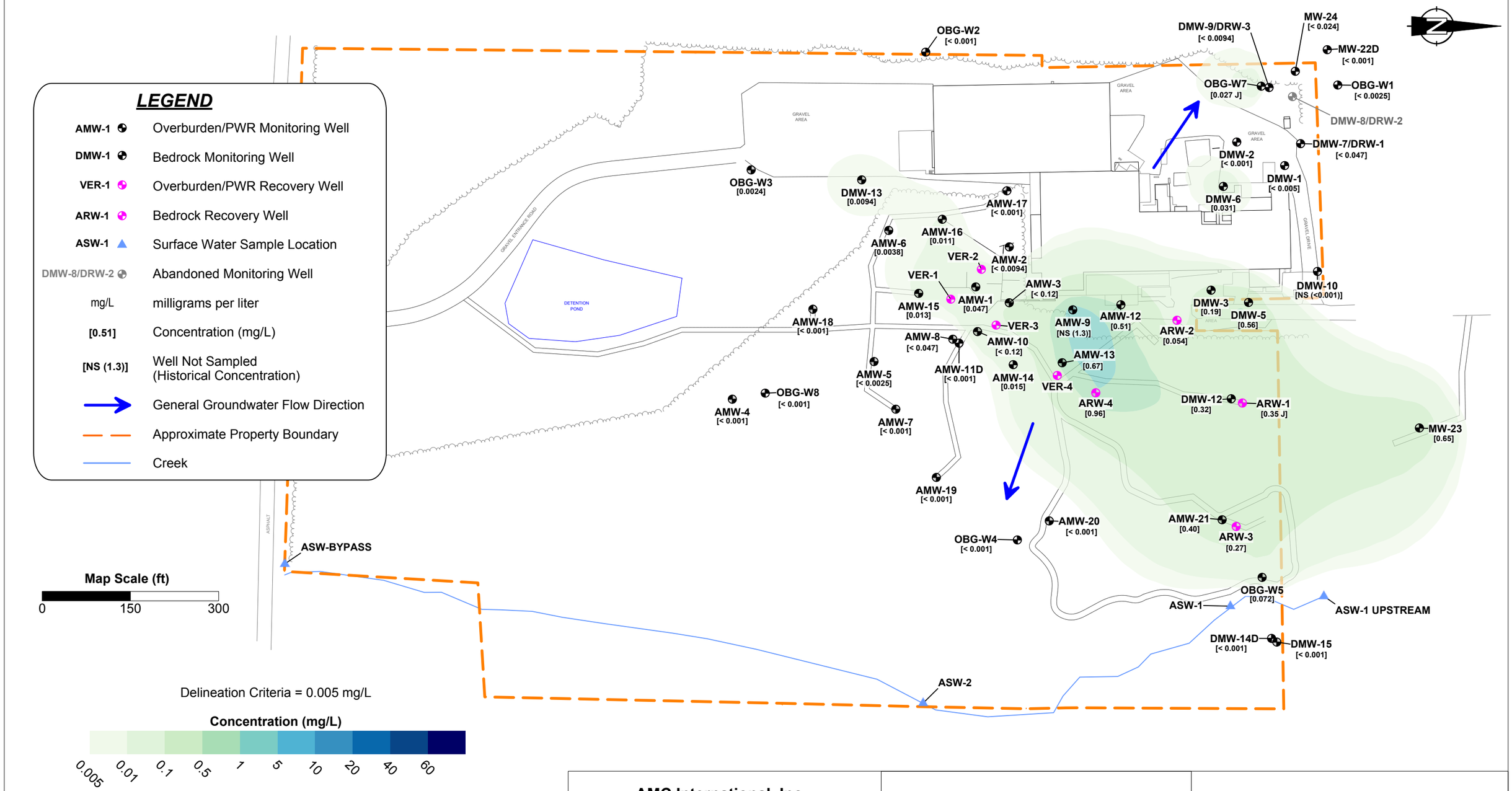
Project Number: 02.20140392.15

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PCE
Isoconcentration Map
December 2015

Prepared by: SNW Checked by: CDN Figure: 8

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Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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HSI Site Number 10405

Project Number: 02.20140392.15

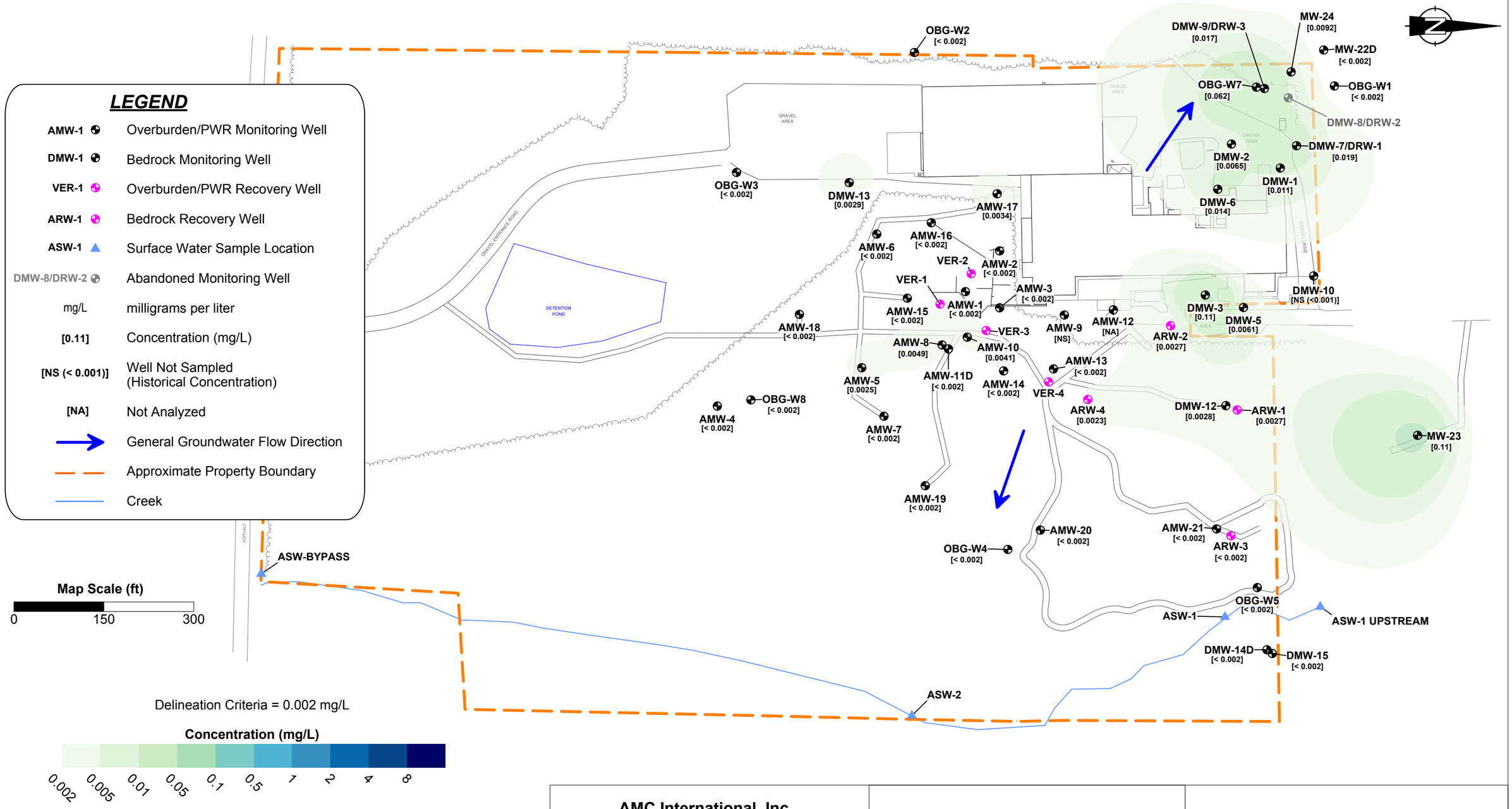
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TCE
Isoconcentration Map
December 2015

Prepared by: SNW Checked by: CDN Figure: 9

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1,4-Dioxane Isoconcentration Map December 2015

Prepared by: SNW Checked by: CDN Figure: 10

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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LEGEND

AMW-1	Overburden/PWR Monitoring Well
DMW-1	Bedrock Monitoring Well
VER-1	Overburden/PWR Recovery Well
ARW-1	Bedrock Recovery Well
ASW-1	Surface Water Sample Location
DMW-8/DRW-2	Abandoned Monitoring Well
mg/L	milligrams per liter
[0.69]	Concentration (mg/L)
[NS (2.6)]	Well Not Sampled (Historical Concentration)
	General Groundwater Flow Direction
	Approximate Property Boundary
	Creek

OBG-W2 [< 0.001]
DMW-9/DRW-3 [0.022]
MW-24 [< 0.05]
MW-22D [< 0.001]
OBG-W7 [0.050]
OBG-W1 [< 0.0025]
DMW-8/DRW-2
DMW-7/DRW-1 [< 0.019]
DMW-2 [< 0.001]
DMW-1 [< 0.005]
DMW-6 [0.043]
OBG-W3 [0.0028]
DMW-13 [< 0.005]
AMW-17 [< 0.001]
AMW-16 [< 0.01]
AMW-6 [0.0024]
VER-2
AMW-2 [< 0.02]
VER-1
AMW-3 [< 0.048]
AMW-1 [0.1]
AMW-15 [0.026]
DMW-10 [NS (<0.001)]
DMW-3 [0.20]
DMW-5 [0.69]
AMW-18 [< 0.001]
AMW-9 [NS (2.6)]
AMW-12 [0.50]
ARW-2 [0.12]
VER-3
AMW-8 [< 0.019]
AMW-10 [< 0.048]
AMW-13 [1.1]
AMW-11D [< 0.001]
AMW-14 [0.034]
VER-4
AMW-5 [< 0.0025]
OBG-W8 [< 0.001]
AMW-4 [< 0.001]
ARW-4 [2.3]
DMW-12 [0.25 J]
ARW-1 [< 0.076]
AMW-7 [< 0.001]
MW-23 [0.41]
AMW-19 [< 0.001]
AMW-20 [0.0030]
AMW-21 [0.86]
ARW-3 [0.49]
OBG-W4 [< 0.001]
ASW-BYPASS
OBG-W5 [0.14]
ASW-1
ASW-1 UPSTREAM
DMW-14D [< 0.001]
DMW-15 [< 0.001]
ASW-2

GRAVEL AREA
GRAVEL ENTRANCE ROAD
DETENTION POND
ASPHALT
GRAVEL DRIVE

Map Scale (ft)
0 150 300

Delineation Criteria = 0.07 mg/L

Concentration (mg/L)
0.07 0.1 0.2 0.4 0.6 0.8 1 2 4 6

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cis-1,2-DCE Isoconcentration Map December 2015

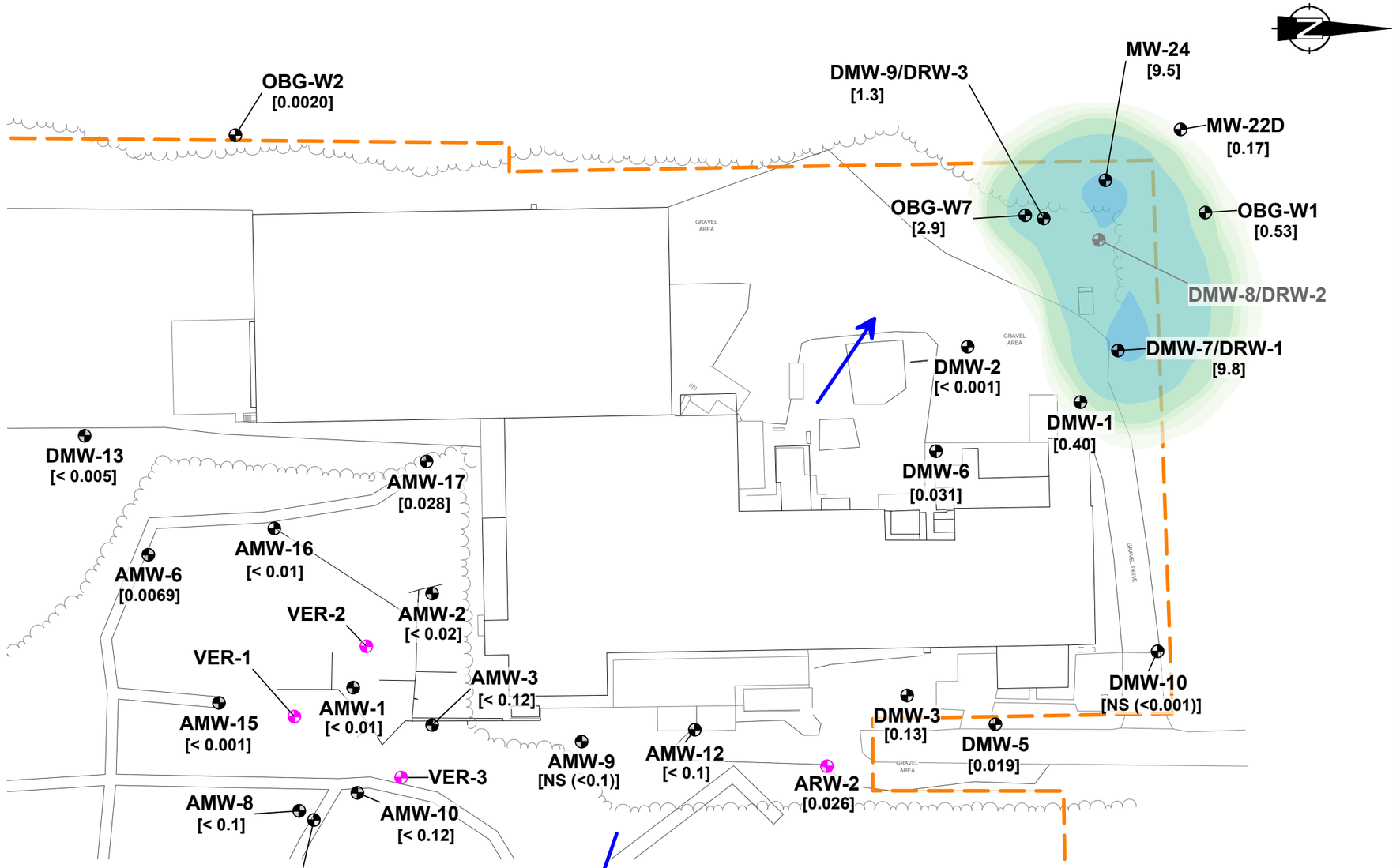
Prepared by: SNW Checked by: CDN Figure: 11

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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LEGEND

AMW-1	Overburden/PWR Monitoring Well
DMW-1	Bedrock Monitoring Well
VER-1	Overburden/PWR Recovery Well
ARW-2	Bedrock Recovery Well
DMW-8/DRW-2	Abandoned Monitoring Well
mg/L	milligrams per liter
[0.17]	Concentration (mg/L)
[NS (<0.1)]	Well Not Sampled (Historical Concentration)
→	General Groundwater Flow Direction
— —	Approximate Property Boundary



Map Scale (ft)

0 150 300

Delineation Criteria = 0.2 mg/L

Concentration (mg/L)

0.2 0.3 0.4 0.5 1 5 10 15 20 40

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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1,1,1-TCA Isoconcentration Map December 2015

Prepared by: SNW Checked by: CDN Figure: 12

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LEGEND

AMW-1	Overburden/PWR Monitoring Well
DMW-1	Bedrock Monitoring Well
VER-1	Overburden/PWR Recovery Well
ARW-2	Bedrock Recovery Well
DMW-8/DRW-2	Abandoned Monitoring Well
mg/L	milligrams per liter
[0.17]	Concentration (mg/L)
[NS (<0.1)]	Well Not Sampled (Historical Concentration)
→	General Groundwater Flow Direction
— —	Approximate Property Boundary

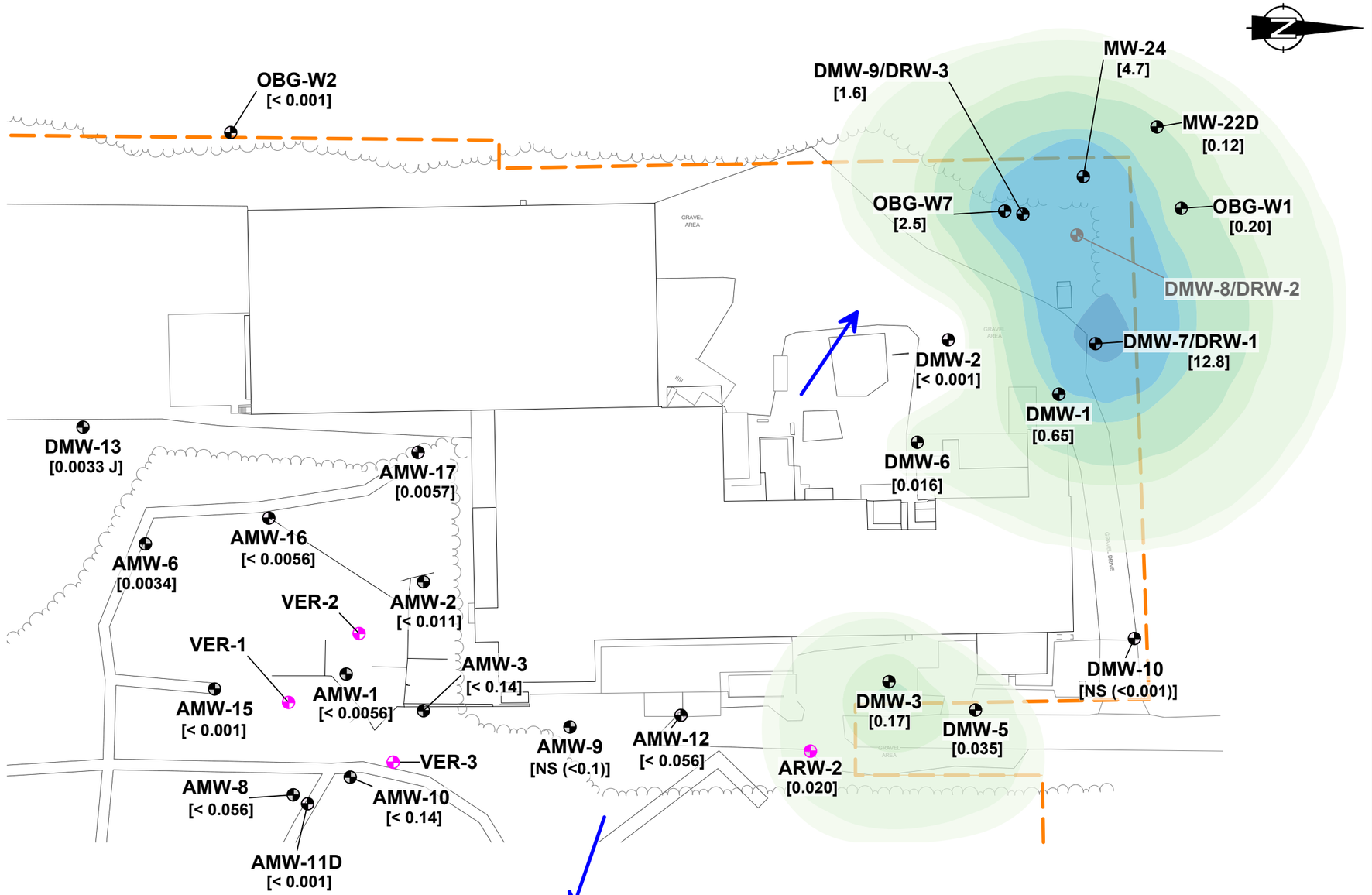
Map Scale (ft)

0 150 300

Delineation Criteria = 0.007 mg/L

Concentration (mg/L)

0.007 0.01 0.05 0.1 0.5 1 5 10 15 20



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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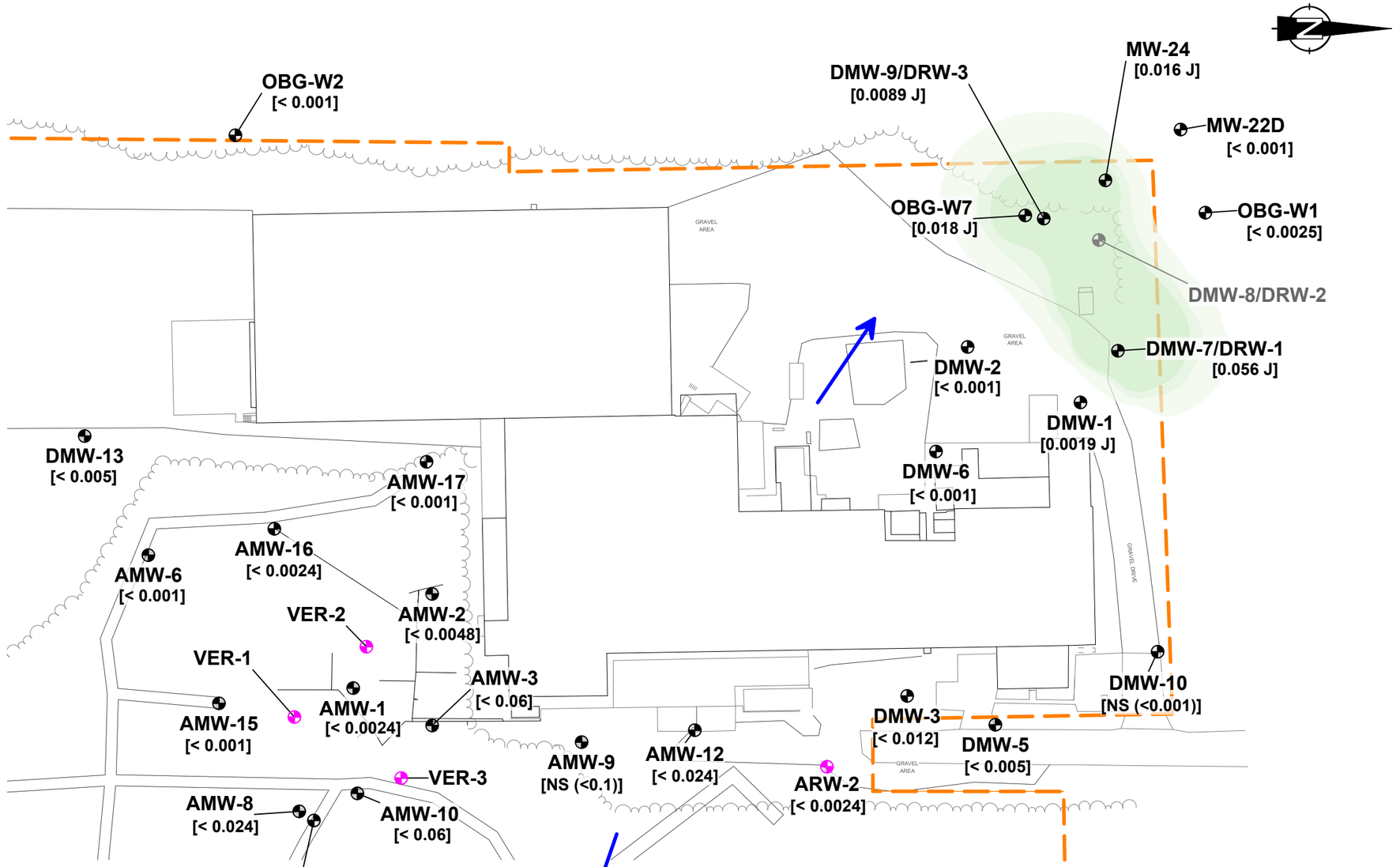
1,1-DCE
Isoconcentration Map
December 2015

Prepared by: SNW Checked by: CDN Figure: 13

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LEGEND

AMW-1	Overburden/PWR Monitoring Well
DMW-1	Bedrock Monitoring Well
VER-1	Overburden/PWR Recovery Well
ARW-2	Bedrock Recovery Well
DMW-8/DRW-2	Abandoned Monitoring Well
mg/L	milligrams per liter
[0.056 J]	Concentration (mg/L)
[NS (<0.1)]	Well Not Sampled (Historical Concentration)
→	General Groundwater Flow Direction
— —	Approximate Property Boundary



Map Scale (ft)

0 150 300

Delineation Criteria = 0.005 mg/L

Concentration (mg/L)

0.005 0.008 0.01 0.05 0.08 0.1 0.5 0.8 1 5

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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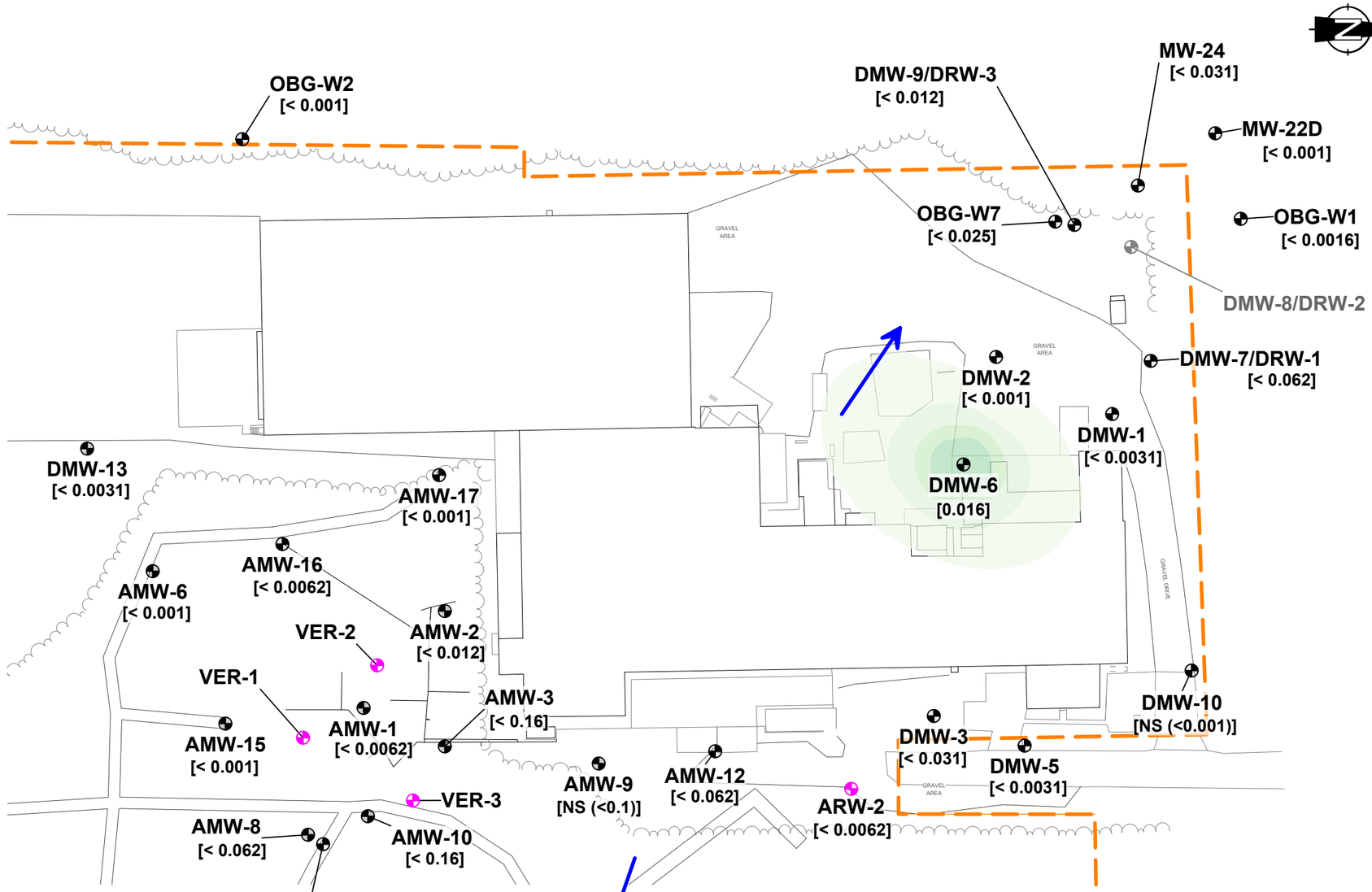
1,2-DCA
Isoconcentration Map
December 2015

Prepared by: SNW Checked by: CDN Figure: 14

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LEGEND

AMW-1	Overburden/PWR Monitoring Well
DMW-1	Bedrock Monitoring Well
VER-1	Overburden/PWR Recovery Well
ARW-2	Bedrock Recovery Well
DMW-8/DRW-2	Abandoned Monitoring Well
mg/L	milligrams per liter
[0.016]	Concentration (mg/L)
[NS (<0.1)]	Well Not Sampled (Historical Concentration)
→	General Groundwater Flow Direction
— —	Approximate Property Boundary



Map Scale (ft)

0 — 150 — 300

Delineation Criteria = 0.002 mg/L

Concentration (mg/L)

0.002 | 0.004 | 0.006 | 0.008 | 0.01 | 0.05 | 0.1 | 0.5 | 1 | 5

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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HSI Site Number 10405

Project Number: 02.20140392.15

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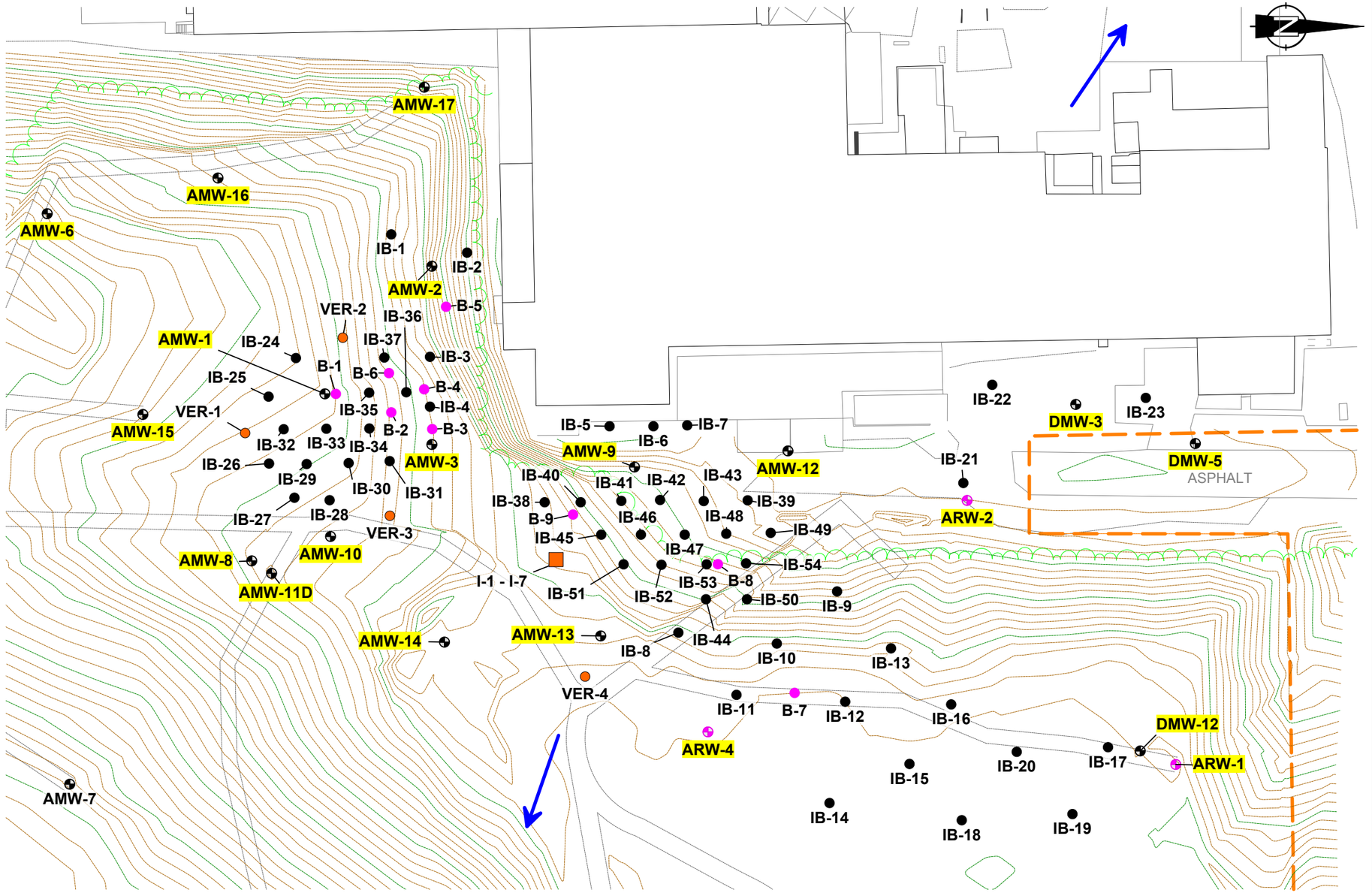
Vinyl Chloride Isoconcentration Map December 2015

Prepared by: SNW Checked by: CDN Figure: 15

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LEGEND

AMW-7	Monitoring Well
ARW-1	Recovery Well
IB-1	ISCO Injection Boring Location
B-1	Approximate SPLP Soil Boring Location
VER-1	Existing Well Injection Location
I-1 - I-7	Existing Pilot Test Well Location
AMW-1	ISCO Effectiveness Monitoring Well Location
	General Groundwater Flow Direction
	Approximate Property Boundary



Map Scale (ft)

0 100 200

Base Map and Topographic Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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HSI Site Number 10405

Project Number: 02.20140392.15

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ISCO Injection Boring Locations and SPLP Soil Sampling Locations

Prepared by: SNW Checked by: CDN Figure: 16

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APPENDICES

APPENDIX A

SUMMARY OF FIELD PROCEDURES

APPENDIX A: SUMMARY OF FIELD PROCEDURES

A site wide sampling event was conducted in December 2015 at the AMC Dalton facility. The field activities are described in the following sections. Field sampling forms and copies of the field book notes are provided in Appendix B. Laboratory analytical reports are provided in Appendix D.

GROUNDWATER SAMPLING

A site wide sampling event was conducted from December 7 through December 17, 2015. All monitoring wells, with the exception of DMW-10 and AMW-9, were sampled.

Sampling equipment could not be lowered into monitoring well DMW-10 due to an obstruction at 20 to 25 feet below top of casing. However, a water level meter could be lowered through the space between the obstruction and casing and a water level measurement was collected. Samples were not collected from AMW-9 due to the presence of permanganate indicated by the purple color of the groundwater.

Groundwater sampling was conducted in general accordance with the United States Environmental Protection Agency (USEPA) Region 4 Science and Ecosystem Support Division (SESD) Operating Procedure (OP) for *Groundwater Sampling* (SESDPROC-301-R3, March 2013). Prior to sampling, water level measurements were collected from each well and water quality parameters were measured (with the exception of DMW-10 and AMW-9). Water level measurements are presented in Table 2. The field parameters measured at the time of groundwater sampling are provided on the field forms in Appendix B. Field parameters collected during the December 2015 sampling event are presented in Table 3.

Sample Containers

The laboratory provided sample containers met the sampling requirements of the study. The laboratory verified the cleanliness of each batch of containers prior to use. The laboratory supplied the necessary preservation solutions and shipped these with the sample containers.

The field sampler took responsibility for properly identifying the location of each sample taken; and for recording the sample date, the type of sample, the preservative used, and the applicable project number. This information was documented in the field book/field form. This same information was then placed on the sample identification label and the chain-of-custody record. Sample labels were filled out with indelible ink. If the field sampler determined that additional information was pertinent to a sample being taken, such data was recorded in the field book/field form.

Groundwater Level Measurement

Prior to well sampling, depth to groundwater and total well depth were measured using an electronic tape or water level indicator. A fixed point was marked with an indelible marker on each well to serve as a reference point for measurement. Depths were measured to the nearest

0.01 foot and recorded on the field sheet. The tape was cleaned with phosphate-free laboratory detergent and water, and rinsed with distilled water prior to each use.

Well Purging

The monitoring wells were purged using a low flow/low volume method with a peristaltic or bladder pump and dedicated, disposable, Teflon-lined tubing. The pumps were decontaminated before use and between each well. The groundwater parameters of temperature, pH, specific conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), and turbidity were measured during purging.

Purging continued until a minimum of three consecutive stable readings were measured with five-minute intervals between readings. For the December 2015 monitoring event, the turbidity criterion of 10 NTUs was met for most wells with the exception of DMW-1, AMW-9, AMW-17, AMW-20, and ARW-2. Pumping rates were reduced as much as possible to reduce the amount of drawdown in the wells. After purging began, drawdown stabilized and was generally less than 0.33 feet for the majority of the wells.

Purging was considered complete after the depth to water and water quality parameters stabilized. Purge water from the wells was temporarily placed in five-gallon buckets and emptied into the facility's waste water storage container. Additional information regarding the purging and sampling activities including the volume of water in each well, purge rate, and depth to water during the purge process are provided in the field sampling forms in Appendix B.

Due to turbidity issues encountered in monitoring well MW-23, a passive diffusion bag (PDB) sampler was deployed and sampled for VOCs in March and June 2015. In their November 18, 2015 comment letter, EPD requested well MW-23 be redeveloped and sampled using low flow/low volume techniques to collect a representative sample for delineation purposes. Monitoring well MW-23 was redeveloped on December 14, 2015. Recharge was adequate for the well to be purged and sampled on December 15, 2015. VOC samples were also collected from the PDB sampler on December 11, 2015 and sent to the laboratory as a duplicate sample for comparison with the low flow/low volume sample.

Groundwater Sampling and Analysis

Groundwater samples were collected after the water level in the well stabilized and after the pH and specific conductance measurements stabilized. The groundwater samples were placed in laboratory supplied pre-preserved containers. The containers were labeled, placed in a cooler on ice, and transported to Pace Analytical Services (Pace) located in Huntersville, North Carolina, a NELAC-certified laboratory. Groundwater samples collected from wells located in both the Dobbs Area and Fire-Release Area were analyzed for volatile organic compounds (VOCs) by EPA Method 8260B. Groundwater samples located in the Dobbs Area were analyzed for monitored natural attenuation (MNA) parameters including total organic carbon (TOC), alkalinity, sulfide, chloride, nitrate, sulfate, ethane, ethene, and methane. Monitoring wells AMW-8, AMW-10, ARW-1, and ARW-4 were also analyzed for RCRA Metals by EPA Method

6010 (arsenic, barium, cadmium, chromium, lead, selenium, and silver) and by EPA Method 7470 (mercury).

Decontamination Procedures

Decontamination procedures consisted of the use of dedicated, disposable tubing at each sampling location. Equipment such as the water level indicator and field measurement instrumentation were cleaned with phosphate-free laboratory detergent and rinsed with distilled water in general accordance with the EPA SESD OP for *Field Equipment Cleaning and Decontamination* (SESDPROC-205-R2, December 2011). The equipment was allowed to air dry. Nitrile gloves were also worn and changed between each sampling location.

Equipment Calibration

Equipment used to perform field testing on groundwater samples included a YSI 556 with flow thru cell and a Scientific Micro TPW, HF Scientific, or Hach turbidity meter to measure pH, specific conductivity, temperature, dissolved oxygen, ORP, and turbidity. Equipment calibration was verified on a daily basis.

Field Sampling Forms

Field personnel maintained a permanently bound, water resistant field notebook. Field activities were recorded with indelible ink. Additionally, sampling field forms were completed for each sample. The notebook, sampling forms, and chain-of-custody records contain sufficient information to allow reconstruction of the sample collection and handling procedures at a later time.

Chain-of-Custody

Sample custody was documented from the time of sample collection when the labeled sample was placed into an iced cooler in the possession of the sampling technician. A corresponding line item on the chain-of-custody record was filled out and initialed by the sampling technician. The chain-of-custody record is used to track custody of samples during transport and shipping. Upon completion of appropriate line items, or upon sample pick-up, the field representative signed, dated, listed the time, and confirmed the completeness of descriptive information contained on the form. The chain-of-custody form accompanied the samples and terminated upon laboratory receipt of samples. All entries were recorded in ink. Each sample had a corresponding entry on a chain-of-custody record.

Analytical Procedures and QA/QC

Groundwater samples were transported to Pace under chain-of-custody protocol. The samples were analyzed for VOCs by EPA Method 8260B and for RCRA metals by EPA Methods 6010 and 7470. Quality control samples, consisting of blind duplicates, trip blanks, and laboratory method blanks were also collected and analyzed.

SURFACE WATER SAMPLING

On December 16, 2015, surface water samples were collected at locations ASW-1 Upstream, ASW-1, ASW-2, and ASW-Bypass. Surface water sampling was conducted in general accordance with the EPA SESD OP for *Surface Water Sampling* (SESDPROC-201-R3, February 2013). Each sample was collected by dipping a clean, dedicated stainless-steel container into the creek while facing upstream and without disturbing the stream bed. With as little agitation as possible, the surface water samples were decanted from the stainless-steel container into pre-preserved 40 ml glass vials with Teflon septa. The vials were labeled, placed in a cooler on ice and transported to Pace where they were analyzed for VOCs using EPA Method 8260B.

MONITORING WELL ABANDONMENT AND INSTALLATION

Dobbs Area recovery well DMW-8/DRW-2 was abandoned on December 8, 2015. The screen and riser were pressure grouted with a bentonite grout. On December 9, 2015, MW-24 was installed approximately 10 feet northeast and downgradient of DMW-8/DRW-2. MW-24 is a 2-inch diameter well screened in bedrock from approximately 48 to 58 feet below ground surface (bgs) to a total depth of approximately 59 feet bgs. The well was developed on December 10, 2015. The boring log and monitoring well construction diagram are provided at the end of this section. Copies of the field notes recorded during well abandonment and well installation activities are provided with the field forms in Appendix B.

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BORING LOG

BORING NO.: MW-24

TOTAL DEPTH: 59.06 feet

PROJECT INFORMATION

PROJECT:	AMC Dalton
SITE LOCATION:	310 Brookhollow Road Dalton, GA
JOB NO.:	02.20140392.15
PROJECT MANAGER:	K. Rivera
LOGGED BY:	J. McKinney

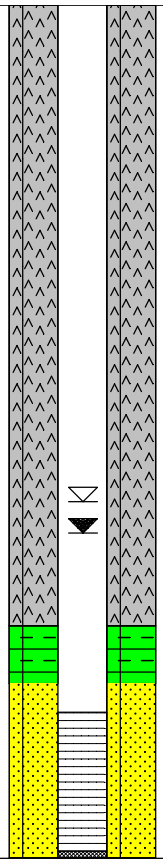
DRILLING INFORMATION

DRILLING CO.:	Cascade
DRILLING METHOD:	Sonic Drilling
INSTALLATION DATE:	12/9/2015-12/10/2015
EASTING:	
NORTHING:	
ELEVATION-T.O.C:	GROUND:

Notes: Monitoring well was screened in the bedrock formation. Well was developed on 12/10/2015. Monitoring well was completed with lockable steel protection and concrete well apron. PVC stick-up is 2.75 feet above ground surface.

Water level during drilling ▼ Water level in completed boring

DEPTH	LITHOLOGIC SYMBOLS	SOIL DESCRIPTION	PVC WELL CONSTRUCTION	COMMENTS
0		FILL: Tan clay. Stiff. Moist.		
-5		FILL: Tan, gray clay. Rocks and trash between 7.0 feet and 8.0 feet. Stiff. Moist.		
-10		FILL: Tan clay. Black topsoil, plant fragments between 10.0 feet and 12.0 feet.		
-15		CLAY: Tan clay. Native soil.		
-20		SILTY CLAY: Tan silty clay. Medium Stiff. Native soil.		
-25		CLAY: Tan to brown mottled clay with shale and chert rock fragments. Structureless. Stiff. Dry.		
-30		NO RECOVERY: Lost core out of barrel. Soil/rock interface at approximately 25.0 feet.		
-35		SANDSTONE: Tan weathered sandstone Fractured into 2-inch pieces in drilling. 3-foot recovery.		
-40		SANDSTONE: Gray to tan sandstone. Appeared to be weathered along surfaces spaced approximatively 0.5-1-inch. Tan on weathered surfaces. 3-foot recovery.		
-45		DOLOSTONE: Less weathered than sandstone. Same mineralized fractures. 2-foot recovery.		
-50		DOLOSTONE: Gray dolostone with white veins (calcite?). No fractures were visible. 6-inches recovery.		
-55		DOLOSTONE: Dolostone with white veins. Recovered pulverized rock in approximately 2-inch pieces. Driller notes clay between 51.0 feet and 53.0 feet. 3-foot recovery.		
		DOLOSTONE: Dolostone with white veins to 57.0 feet. Clayey zone afterwards.		



Well grounted with Type I Portland Cement from ground surface to 43.0 feet.

Bentonite seal from 43.0 feet to 47.0 feet.

GP1A Sand Pack from 47.0 feet to 59.06 feet.

2-inch diameter PVC 0.01-inch slotted screen from 48.98 feet to 58.60 feet.

Boring terminated at 59.06 feet.

NOTES:

APPENDIX B

FIELD SAMPLING FORMS

EARTHCON®

Groundwater Sampling Record

WELL No. DMW-1	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/15/15
SAMPLE No. DMW-1	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S. Woolf	/EarthCon
SAMPLE TIME: 1600	SITE Dalton, GA	FIELD CONDITIONS/WEATHER sunny, clear, 70°F	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	35.18	Measuring Point Elevation (feet):	—
Depth of Well (feet):	54.48 (measured 12/7/15)	Groundwater Surface Elevation:	—
Water Column (feet):	19.30	LNAPL present: —	thickness:
Casing Volume (gallons/liters):	3.15	DNAPL present: —	thickness:
Calculated Purge Volume (gallons/liters):	9.44	Remarks: 10-ft screen	
Actual Purge Volume (gallons/liters):	3.30		
Pump Intake Depth (feet):	~50 feet	Ferrous Iron (mg/L):	0.02 mg/L

Well Evacuation
Water level recovery is: (very slow) slow moderate fast — Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1355	0								PURGE START
1402	0.1	15.33	7.20	3.09	599.0	1140	over range	36.17	cloudy
1410	0.2	14.99	7.24	3.76	581.6	1132	over range	37.70	" "
1420	0.8	14.89	7.32	4.87	558.5	1127	91.5	40.70	" "
1430	1.0	14.81	7.34	5.13	553.5	1126	73.6	40.80	" "
1440	1.3	14.84	7.36	5.28	552.9	1125	62.6	41.80	slightly cloudy
1450	1.5	15.08	7.38	5.28	545.7	1134	49.7	42.78	clear "
1500	1.8	14.86	7.38	5.32	537.8	1131	44.8	44.00	" "
1510	2.2	14.88	7.39	5.11	530.8	1135	43.2	—	" "
1520	2.5	15.26	7.38	4.95	528.9	1148	35.7	45.81	" "
1530	2.7	14.85	7.36	4.61	526.2	1149	32.8	46.99	" "
1535	2.8	14.83	7.34	4.37	523.0	1155	33.1	47.10	" "
1540	3.0	14.84	7.33	4.33	521.7	1156	34.5	47.37	" "
1545	3.3	14.85	7.33	4.38	521.3	1157	41.3	47.89	" "
1600	Sampled								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Bladder Pump	QED	—	—
Water Quality	YSI 556 MPS	11C100915	12-15-15
Turbidimeter	LaMotte	2020we	12-15-15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
DMW-1	VOCs SW 8260B	3 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	3 voa 20-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	3 voa 40-mL	-	
	Sulfide SM4500-S2-F	1 250-mL HDPE	NaOH+Zn Ac	
	Ion Scan E300.0	1 125-mL HDPE	-	

EARTHCON®

Groundwater Sampling Record

WELL No. DMW-2	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/15/15
SAMPLE No. DMW-2	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S. Woolf	/EarthCon
SAMPLE TIME: 1205	SITE Dalton, GA	FIELD CONDITIONS/WEATHER sunny, [redacted] 50°F	

Well Condition Inspection (circle one)

cover: (locked) not locked
number (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: ~~$(\pi r^2 h)(7.48\ gal/ft^3)$~~
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	37.85	Measuring Point Elevation (feet):	—
Depth of Well (feet):	55.30 (measured 12/7/15)	Groundwater Surface Elevation:	—
Water Column (feet):	15.45	LNAPL present: —	thickness:
Casing Volume (gallons/liters):	2.52	DNAPL present: —	thickness:
Calculated Purge Volume (gallons/liters):	7.56	Remarks: 10-ft screen	
Actual Purge Volume (gallons/liters):	1.70		
Pump Intake Depth (feet):	~52 feet	Ferrous Iron (mg/L):	0.01 mg/L

Well Evacuation

Water level recovery is: very slow (slow) moderate fast — Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1042	0								PURGE START
1048	0.1	13.34	8.02	6.11	393.1	879	46.8	41.93	silty
1055	0.4	13.48	8.16	7.23	390.3	880	41.9	42.95	" "
1105	0.6	13.47	8.17	7.61	393.9	882	25.2	44.10	" "
1115	0.8	13.40	8.22	7.16	400.8	885	18.8	45.35	" "
1125	1.0	13.45	8.22	7.12	408.8	888	13.5	45.90	clear
1135	1.2	13.45	8.23	7.00	417.9	890	9.9	46.71	" "
1140	1.3	13.45	8.23	6.85	423.9	889	9.8	47.03	" "
1145	1.5	13.51	8.25	6.98	426.1	891	9.9	47.18	" "
1150	1.6	13.49	8.25	6.89	427.0	891	9.9	47.62	" "
1155	1.7	13.50	8.26	6.83	425.7	891	8.8	47.95	" "
1205	sampled								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Bladder Pump	QED	—	—
Water Quality	YSI 556 MPS	11C100915	12-15-15
Turbidimeter	Lamotte	2020 we	12-15-15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
DMW-2	VOCs SW 8260B	3 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	3 voa 20-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	3 voa 40-mL	-	
	Sulfide SM4500-S2-F	1 250-mL HDPE	NaOH+Zn Ac	
	Ion Scan E300.0	1 125-mL HDPE	-	

EARTHCON®

Groundwater Sampling Record

WELL No. DMW-6	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/16/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY CNP, LT	
SAMPLE TIME: 1515	SITE Dalton, GA	FIELD CONDITIONS/WEATHER 65°F, Humidity 63%, Barp. 29.97", WSSE 3 mph	/EarthCon

Well Condition Inspection (circle one)

- cover: (locked) not locked
- number: (legible) not legible
- outer casing: (good) fair poor
- inner casing: (good) fair poor
- well photographed: yes (no)

Equipment Cleaning Procedures

- (potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	33.13	Measuring Point Elevation (feet):	
Depth of Well (feet):	55.69	Groundwater Surface Elevation:	
Water Column (feet):	22.56	LNAPL present:	
Casing Volume (gallons/liters):	(3.62 gal/11.02 ltr)	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	0.16	Remarks: Increased flow improved turb. lowered wt. Sample at high turb as directed.	thickness:
Actual Purge Volume (gallons/liters):			
Pump Intake Depth (feet):	45'	Ferrous Iron (mg/L): → on multi dilutions over limit.	

Well Evacuation
Water level recovery is: very slow (slow) moderate fast
Bailed dry: NA yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1235	0								
1240	1	18.07	6.90	6.91	-125.3	623	64.8	34.38	PURGE START
1255	0.5g	18.35	6.91	6.53	-100.6	595	119	35.25	Slight Chl. Increased flow
1330	1.0g	18.83	6.90	7.79	-74.1	602	109	34.20	
1350	1.25g	18.80	6.84	10.56	-76.4	571	141	34.80	Sl. cldy
1410	1.50g	18.87	6.88	10.09	-99.3	560	923	35.51	" "
1425	2.5g	17.84	6.88	7.50	-124.8	551	21.9	38.00	Flow adjusted
1430	3.0g	17.90	6.88	11.88	-110.8	284	140	38.41	Directed
1440	3.5g	17.81	6.86	6.01	-103.8	560	400	39.05	(400 ntu)
1500	4.5g	17.96	6.91	9.55	-106.4	586	323	38.70	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi Meter	YSI	556 SN 07F101274	12/16/15
Turbidity	La Motte	2020e SN-ME 14316	12/16/15
Bladder Pump	QED	MicroPurge MP-15	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	3 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	3 voa 20-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	3 voa 40-mL	-	
	Sulfide SM4500-S2-F	1 250-mL HDPE	NaOH+Zn Ac	
	Ion Scan E300.0	1 125-mL HDPE	-	

1mL - 25mL >
0.5mL - 25mL >
5 drops to 25mL >

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Groundwater Sampling Record

WELL No. RMW-7/ORW-1	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/16/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY CNotea	/EarthCon
SAMPLE TIME: 0850	SITE Dalton, GA	FIELD CONDITIONS/WEATHER PC/W,X	

Well Condition Inspection (circle one)

cover:	locked	not locked	
number:	legible	not legible	
outer casing:	good	fair	poor
inner casing:	good	fair	poor
well photographed:	yes	no	

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	37.75	Measuring Point Elevation (feet):	
Depth of Well (feet):	62.10	Groundwater Surface Elevation:	
Water Column (feet):	24.35	LNAPL present:	thickness:
Casing Volume (gallons/liters):	0.65	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	1½ eIV / 4½ eIV	Remarks: Grease type Film on recovery Pump. No Dup. or Blanks	
Actual Purge Volume (gallons/liters):	2.5		
Pump Intake Depth (feet):	55.0	Ferrous Iron (mg/L):	0.00

Well Evacuation

Water level recovery is: very slow slow moderate fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
0740	0								
0745	I	15.96	6.94	5.42	128.4	822	15.7	37.75	PURGE START
0800	1.0	15.86	6.92	5.66	130.2	822	13.0	38.45	Clear
0815	2.0	15.46	6.92	7.09	130.9	804	14.8	39.30	Flow adj
0830	2.5	14.99	6.91	7.45	131.6	788	8.10	39.33	Clear

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Meter	YSI	556 SN07F101774	12/16/15
Turb	La Motte	2020e SN-ME 14316	12/16/15
Bladder Pump	QED	Micro Purge MP-15	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	3 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	3 voa 20-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	3 voa 40-mL	-	
	Sulfide SM4500-S2-F	1 250-mL HDPE	NaOH+Zn Ac	
	Ion Scan E300.0	1 125-mL HDPE	-	

EARTHCON®

Groundwater Sampling Record

WELL No. DMW-9/DRW-3	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/16/15
SAMPLE No. DMW-9/DRW-3	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S. Wolf	/EarthCon
SAMPLE TIME: 0900	SITE Dalton, GA	FIELD CONDITIONS/WEATHER clear, 40-50°F	

Well Condition Inspection (circle one)

cover: locked (not locked)
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

(potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
(- air dry)

Casing Diameter: (circle one) 2" (4") 6" Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; (4" = 0.653;) 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 36.58
Depth of Well (feet): 62.10 (measured 12/7/15)
Water Column (feet): 25.52
Casing Volume (gallons/liters): 16.66
Calculated Purge Volume (gallons/liters): 49.99
Actual Purge Volume (gallons/liters): 1.60
Pump Intake Depth (feet): ~52 feet

Measuring Point Elevation (feet): —
Groundwater Surface Elevation: —
LNAPL present: — thickness:
DNAPL present: — thickness:
Remarks: 20-ft screen
Ferrous Iron (mg/L): 1.66 mg/L

Well Evacuation
Water level recovery is: very slow slow moderate (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR REMARKS
0740	0								PURGE START
0745	0.1	11.57	5.85	2.61	163.7	1407	27.1	36.74	clear
~~0755~~ 800	0.5	11.89	5.80	1.69	118.0	1355	8.0	36.84	" "
0810	0.8	11.85	5.80	1.09	101.1	1373	7.9	36.86	" "
0820	1.0	11.15	5.77	1.01	94.7	1292	8.7	36.88	" "
0830	1.2	11.25	5.81	1.05	88.6	1277	9.2	36.89	" "
0835	1.3	11.21	5.82	1.12	88.3	1268	8.9	36.90	" "
0840	1.4	11.20	5.81	1.30	88.9	1262	9.0	36.90	" "
0845	1.5	11.19	5.81	1.33	90.4	1261	9.0	36.91	" "
0850	1.6	11.15	5.81	1.39	91.0	1259	7.7	36.91	" "
0900	sampled								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Bladder Pump	QED	—	—
Water Quality	YSI 556 MPS	11C100915	12-16-15
Turbidimeter	LaMotte	2020we	12-16-15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
DMW-9/DRW-3	VOCs SW 8260B	3 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	3 voa 20-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	3 voa 40-mL	-	
	Sulfide SM4500-S2-F	1 250-mL HDPE	NaOH+Zn Ac	
	Ion Scan E300.0	1 125-mL HDPE	-	

EARTHCON®

Groundwater Sampling Record

WELL No. DMW-11	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/11/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 9:05	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Cloudy, Drizzle 50's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 22.50
Depth of Well (feet): 29.88
Water Column (feet): 7.38
Casing Volume (gallons/liters): 1.20
Calculated Purge Volume (gallons/liters): 3.60
Actual Purge Volume (gallons/liters):
Pump Intake Depth (feet): ~25'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.00

Well Evacuation
Water level recovery is: very slow slow moderate (fast)
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
									PURGE START
8:22	0								
8:30	0.40	15.44	8.28 5.75	8.28	234.6	244	12.60	22.52	clear
8:35	0.65	15.37	5.75	7.75	238.8	238	7.49	22.51	"
8:40	0.90	15.40	5.74	7.14	244.1	228	4.84	22.51	"
8:45	1.15	15.43	5.74	6.79	248.5	228	6.16	22.51	"
8:50	1.30	15.43	5.74	6.56	250.3	227	4.57	22.51	"
8:55	1.50	15.45	5.74	6.30	253.1	226	2.75	22.51	"
9:05	sa	m p	le						

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi Parameter	YSI	556 MPS	12/11/15
Turbidimeter	LaMotte	2020 e	12/11/15
Peristaltic Pump	Geotech	Geopump	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
DMW-11	VOCs SW 8260B	3 voa 40-mL	HCl	
DMW-11	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	
DMW-11	MNA Gases SOP-RSK175	3 voa 20-mL	HCl	
DMW-11	Alkalinity SM2320B	1 250-mL HDPE	-	
DMW-11	TOC SM5310B	3 voa 40-mL	-	
DMW-11	Sulfide SM4500-S2-F	1 250-mL HDPE	NaOH+Zn Ac	
DMW-11	Ion Scan E300.0	1 125-mL HDPE	-	

EARTHCON®

Groundwater Sampling Record

WELL No. OBG-W1	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/11/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY CNolin /EarthCon	
SAMPLE TIME: 0950	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Cldy, 55°F, Humidity 100%, Wind, N-Ogph Bar P. 30.02"	

Well Condition Inspection (circle one)

cover:	locked	not locked
number:	legible	not legible
outer casing:	good	fair poor
inner casing:	good	fair poor
well photographed:	yes	no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	27.20	Measuring Point Elevation (feet):	
Depth of Well (feet):	46.15	Groundwater Surface Elevation:	
Water Column (feet):	18.95	LNAPL present:	thickness:
Casing Volume (gallons/liters):	0.16	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	3.1gal/9.3gal	Remarks: CK valve used. Waste/Purge H2O in onsite tote.	
Actual Purge Volume (gallons/liters):			
Pump Intake Depth (feet):	38.0'	Ferrous Iron (mg/L):	0.12

Well Evacuation
Water level recovery is: very slow slow moderate fast Bailed dry: NA yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
0818	0								PURGE START
0828	1	16.87	5.42	10.74	139.3	93	6.56	27.49	Clear
0838	0.75 gal	17.05	5.57	7.87	150.1	102	5.44	28.48	" Flow adj.
0848	1.0 gal	16.89	5.65	6.92	148.8	103	16.8	27.39	" "
0858	1.5 gal	16.83	5.66	6.49	150.7	103	14.2	27.38	"
0908	2.0 gal	16.87	5.35	5.38	160.2	104	13.0	27.38	"
0918	2.5 gal	16.91	5.68	4.71	166.9	110	12.2	27.39	"
0928	3.0 gal	16.90	5.76	4.19	165.6	115	10.05	27.39	"
0938	3.8 gal	16.85	5.77	4.10	166.7	115	9.98	27.39	"
Water level Mtr	Heron Inc		dipper-T	300'	SN 28844				
Ferrous Iron	HACH		DR/890	Colorimeter SN		080990C70681			

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi Meter	YSI	556 SN07F101774	12/11/15
Turbidity	La Motte	2020e SN-ME 14316	12/11/15
Geo Pump	Geo Tech	Peristaltic Pump w/ck valve SN1938	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	3 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	3 voa 20-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	3 voa 40-mL	-	
	Sulfide SM4500-S2-F	1 250-mL HDPE	NaOH+Zn Ac	
	Ion Scan E300.0	1 125-mL HDPE	-	

EARTHCON®

Groundwater Sampling Record

WELL No. OBG-W1	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/15/15
SAMPLE No. OBG-W1	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 16:00	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 60's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	27.40	Measuring Point Elevation (feet):	
Depth of Well (feet):	46.15	Groundwater Surface Elevation:	
Water Column (feet):	18.75	LNAPL present:	thickness:
Casing Volume (gallons/liters):	3.06	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	4.17	Remarks: Re-purge for nitrates	
Actual Purge Volume (gallons/liters):	4.25		
Pump Intake Depth (feet):	~38'	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow moderate (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1441	0								PURGE START
1445	0.20	17.33	5.81	6.22	220.1	121	4713	27.60	cloudy
1450	0.40	16.93	5.78	5.02	230.5	129	2406	27.45	"
1455	0.70	16.85	5.77	3.01	234.3	131	984	27.56	"
1500	0.95	16.86	5.78	2.54	237.5	136	578	27.60	"
1510	1.45	16.83	5.87	2.83	242.8	154	246	27.56	
1517	1.75	16.78	5.89	2.66	246.0	159	124	27.61	sl cloudy
1520	2.00	16.74	5.90	2.63	247.9	162	93.2	27.54	"
1525	2.30	16.75	5.91	2.35	250.6	164	68.2	27.58	"
1530	2.65	16.64	5.91	2.46	251.1	164	59.7	27.60	"
1535	2.95	16.64	5.92	2.47	252.9	167	40.0	27.56	"
1540	3.20	16.61	5.94	2.42	254.8	172	30.2	27.62	clear
1550	3.75	16.65	5.95	2.35	257.4	173	19.5	27.60	clear
16:00	4.25	16:60	5.93	2.38	259.0	168	7.69	27.56	"
16:00	sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	YSI	556 MPS	12/15/15
Turbidimeter	LaMotte	2020 e	12/15/15
Bladder Pump	QED	Micro Purge MP50	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	~~VOCs SW 8260B~~	~~3 voa 40-mL~~	HCl	
	~~1,4-Dioxane SW8260B-SIM~~	~~3 voa 40-mL~~	HCl	
	~~MNA Gases SOP RSK175~~	~~3 voa 20-mL~~	HCl	
OBG-W1	Alkalinity SM2320B - Nitrates	1 250-mL HDPE	-	
	~~TOC SM5310B~~	~~3 voa 40-mL~~	-	
	~~Sulfide SM4500-S2-F~~	~~1 250-mL HDPE~~	NaOH+Zn Ac	
	~~Ion Scan E300.0~~	~~1 125-mL HDPE~~	-	

EARTHCON®

Groundwater Sampling Record

WELL No. OB6-W2	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd. Dalton, Whitfield County, GA	DATE 12/15/15
SAMPLE No. OB6-W2	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: ~~12:50~~ 13:00	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 50's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	36.58	Measuring Point Elevation (feet):	
Depth of Well (feet):	43.28	Groundwater Surface Elevation:	
Water Column (feet):	6.7	LNAPL present:	thickness:
Casing Volume (gallons/liters):	1.09	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	3.27	Remarks:	
Actual Purge Volume (gallons/liters):			
Pump Intake Depth (feet):	~40' - Chad to lower pump to get water	Ferrous Iron (mg/L):	0.00

Well Evacuation
Water level recovery is: very slow slow moderate fast Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
11:46	0								PURGE START
11:55	0.40	15.31	7.16	7.88	218.3	267	5.04	36.90	clear
12:00	0.60	15.54	7.04	9.85	223.6	255	3.99	37.02	"
12:05	0.75	15.54	7.10	10.71	228.6	246	3.99	37.09	"
12:10	0.95	14.95	7.13	9.16	236.0	281	4.00	37.24	"
12:15	1.15	14.87	7.08	8.81	239.7	285	2.06	37.39	"
12:20	1.25	15.01	7.12	8.80	242.2	296	1.39	37.52	"
12:25	1.40	15.24	7.18	10.12	243.8	308	0.84	37.61	"
12:30	1.50	15.20	7.21	10.20	245.8	314	0.64	37.68	"
12:35	1.65	15.25	7.25	9.75	247.9	316	0.83	37.75	"
12:40	1.65	15.09	7.33	10.81	248.5	313	1.11	37.81	"
~~3:00~~ ~~BTSD~~	Sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-parameter	YSI	556 MPS	12/15/15
Turbidimeter	LaMotte	2020e	12/15/15
Bladder Pump	QED	Micro Purge MP50	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
OB6-W2	VOCs SW 8260B	3 voa 40-mL	HCl	
"	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	
"	MNA Gases SOP-RSK175	3 voa 20-mL	HCl	
"	Alkalinity SM2320B	1 250-mL HDPE	-	
"	TOC SM5310B	3 voa 40-mL	-	
"	Sulfide SM4500-S2-F	1 250-mL HDPE	NaOH+Zn Ac	
"	Ion Scan E300.0	1 125-mL HDPE	-	

EARTHCON®

Groundwater Sampling Record

WELL No. OB6-W7	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/16/15
SAMPLE No. OB6-W7	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 8:45	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Mostly Sunny, 40's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

(potable water and phosphate-free soap)
(potable water rinse)
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
(air dry)

Casing Diameter: (circle one) 2" (4") 6" Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 37.58
Depth of Well (feet): 47.15
Water Column (feet): 9.57
Casing Volume (gallons/liters): 6.25
Calculated Purge Volume (gallons/liters): 18.75
Actual Purge Volume (gallons/liters): 3.0
Pump Intake Depth (feet): 44'

Measuring Point Elevation (feet): ___
Groundwater Surface Elevation: ___
LNAPL present: ___ thickness: ___
DNAPL present: ___ thickness: ___
Remarks: switch turbidimeter at 8:00 C battery died on 2020 C
Ferrous Iron (mg/L): 0.20

Well Evacuation
Water level recovery is: very slow slow moderate (fast)
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
7.43	0								PURGE START
7.45	0.05	14.08	6.20	~~8.20~~ 8.38	140.0	16	7.60	37.69	clear
7.50	0.40	14.47	6.18	2.56	180.4	642	3.60	37.70	"
7.55	0.60	14.75	6.15	1.47	178.7	647	2.48	37.73	"
8.00	0.80	15.01	6.14	1.03	178.3	651	2.20	37.75	"
8.10	1.25	14.92	6.13	0.40	180.1	647	2.30	37.82	"
8.20	1.55	14.85	6.12	0.74	177.8	647	1.80	37.84	"
8.25	1.80	14.80	6.12	0.57	176.8	646	1.60	37.86	"
8.45	s a	m p	le						

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	YSI	556 MPS	12/16/15
Turbidimeter	LaMotte	2020e /	12/16/15
Bladder Pump	QED	Micro Purge MP-50	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
OB6-W7	VOCs SW 8260B	3 voa 40-mL	HCl	
"	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	
"	MNA Gases SOP-RSK175	3 voa 20-mL	HCl	
"	Alkalinity SM2320B	1 250-mL HDPE	-	
"	TOC SM5310B	3 voa 40-mL	-	
"	Sulfide SM4500-S2-F	1 250-mL HDPE	NaOH+Zn Ac	
"	Ion Scan E300.0	1 125-mL HDPE	-	

EARTHCON®

Groundwater Sampling Record

WELL No. MW-220	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd. Dalton, Whitfield County, GA	DATE 12/10/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY 72%	/EarthCon
SAMPLE TIME: 1535	SITE Dalton, GA	FIELD CONDITIONS/WEATHER 64°F, Winds SW 4mph, Humi. 72%, Bar. 29.96"	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

(potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	27.49	Measuring Point Elevation (feet):	
Depth of Well (feet):	67.73	Groundwater Surface Elevation:	
Water Column (feet):	40.24	LNAPL present:	thickness:
Casing Volume (gallons/liters):	0.16	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	0.5 IV / 3V	Remarks:	CK valve used.
Actual Purge Volume (gallons/liters):	1.0		Sample collection as directed.
Pump Intake Depth (feet):	42.0'	Ferrous Iron (mg/L):	0.00 mg/L

Well Evacuation
Water level recovery is: very slow slow moderate (fast) Bailed dry: NA yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1440	0								PURGE START
1445	I	16.90	7.00	14.41	159.9	541	2.11	27.87	Clear
1455	0.25	16.83	7.00	12.09	133.6	538	1.98	27.70	"
1505	0.50	16.75	6.99	11.62	134.4	537	1.48	27.78	"
1515	0.75	16.69	6.99	11.05	135.6	536	1.46	27.77	"
1525	1.00	16.65	6.98	10.23	136.4	530	1.44	27.79	"
					Test pillow Lot #	H0002	4F25	Exp 5/18	
Ferrous Iron	HACH	DR/890 Colorimeter			SN	080990C	10681		

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Meter	YSI	556 SN07F101774	12/10/15
Turb.	LaMotte	2020e SN-ME 14316	12/10/15
Geo Pump	GeoTech	Peristaltic Pump w/ck Valve SN 1938	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	3 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	3 voa 20-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	3 voa 40-mL	-	
	Sulfide SM4500-S2-F	1 250-mL HDPE	NaOH+Zn Ac	
	Ion Scan E300.0	1 125-mL HDPE	-	

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Groundwater Sampling Record

WELL No. MW-24	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/16/15
SAMPLE No. MW-24	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 11:30	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 50's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable ~~water and~~ phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- ~~solvent~~ rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	39.93	Measuring Point Elevation (feet):	
Depth of Well (feet):	61.68	Groundwater Surface Elevation:	
Water Column (feet):	21.75	LNAPL present:	thickness:
Casing Volume (gallons/liters):	3.54	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):		Remarks:	
Actual Purge Volume (gallons/liters):			
Pump Intake Depth (feet):	~56'	Ferrous Iron (mg/L):	0.04

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
10:22	0								PURGE START
10:30	0.75	15.91	6.83	6.83	215.9	705	46.5	41.05	sl cloudy
10:35	0.90	15.98	6.83	6.76	213.0	701	41.9	41.67	"
10:40	0.70	16.26	6.83	6.69	211.1	702	37.4	42.13	"
10:45	0.85	16.18	6.83	6.59	210.7	702	32.5	42.37	"
10:50	0.95	16.48	6.84	6.80	209.5	704	25.3	40.58	
10:55	1.05	16.45	6.83	6.64	208.0	707	19.9	42.79	clear
11:00	1.15	16.40	6.82	6.61	206.9	712	12.4	43.04	"
11:05	1.30	16.45	6.81	6.60	206.2	716	9.46	43.35	"
11:10	1.45	16.64	6.81	6.50	205.9	718	7.82	43.41	"
11:15	1.55	16.81	6.82	6.68	204.6	724	6.98	43.46	"
11:30	Sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	YSI	556 MPS	12/16/15
Turbidimeter	LaMotte	2020e	12/16/15
Bladder Pump	QED	Micro Purge MP 50	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
MW-24	VOCs SW 8260B	3 voa 40-mL	HCl	
"	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	
"	MNA Gases SOP-RSK175	3 voa 20-mL	HCl	
"	Alkalinity SM2320B	1 250-mL HDPE	-	
"	TOC SM5310B	3 voa 40-mL	-	
"	Sulfide SM4500-S2-F	1 250-mL HDPE	NaOH+Zn Ac	
"	Ion Scan E300.0	1 125-mL HDPE	-	

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Groundwater Sampling Record

WELL No. AMW-1	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/10/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY CW/LH	/EarthCon
SAMPLE TIME: 1255	SITE Dalton, GA	FIELD CONDITIONS/WEATHER 68°F, Winds W 6mph, Bar.P 30.03", Hum 62%	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	18.74	Measuring Point Elevation (feet):	
Depth of Well (feet):	28.81	Groundwater Surface Elevation:	
Water Column (feet):	10.07	LNAPL present:	thickness:
Casing Volume (gallons/liters):	0.16	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	2.01v/5.03v	Remarks: Dup. Site 3 vials no ID date only + sampler	
Actual Purge Volume (gallons/liters):	2.0v		
Pump Intake Depth (feet):	12/10/15 20.0' 23.0'	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast — Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1200	0								PURGE START
1205	I	16.45	5.70	13.92	165.6	62	5.10	18.74	Clear
1210	0.5g	16.38	5.60	13.92	178.0	59	5.85	19.44	"
1220	1.0g	16.41	5.57	14.70	185.8	60	5.90	19.53	"
1230	1.25g	16.20	5.56	15.49	188.6	59	5.90	19.60	Flow adj.
1240	1.50g	16.67	5.58	16.00	191.0	59	5.65	19.65	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi Meter	YSI	556 SN 07F101774	12/10/15
Turbidity	La Motte	2020e SN-ME 14316	12/10/15
Geo Pump	Geo Tech	Peristaltic Pump SN 1938	/

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	3 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-2	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/15/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY CW/OJG	/EarthCon
SAMPLE TIME: 1250	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Clear, 59°F, Humidity 67%, Barp. 29.97", Winds N 6mph	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: good (fair) poor Rusting
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	29.85	Measuring Point Elevation (feet):	
Depth of Well (feet):	40.62	Groundwater Surface Elevation:	
Water Column (feet):	10.77	LNAPL present:	thickness:
Casing Volume (gallons/liters):	0.16	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	2.3gal V, 5.3gal V	Remarks:	
Actual Purge Volume (gallons/liters):			
Pump Intake Depth (feet):	35.0'	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow moderate (fast)
Bailed dry: N/A yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1140	0								PURGE START
1145	0.5	15.83	6.31	7.75	88.2	152	75.3	29.74	Clear
1200	0.5g	15.84	6.27	7.76	97.9	150	20.8	29.15	"
1215	1.0g	15.96	6.22	7.69	115.8	144	14.9	30.14	"
1230	1.5g	16.05	6.21	7.51	125.5	143	9.8	30.19	"
1245	2.0g	16.07	6.19	7.58	134.9	142	8.67	30.15	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi Meter	YSI	556 SN 07F101774	12/15/15
Turbidity	La Motte	2020e SN-ME 14316	12/15/15
Bladder Pump	QED Microplge	MP-15	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	3 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-3	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/10/15
SAMPLE No. AMW-3	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry /EarthCon	
SAMPLE TIME: 9:45	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Partly Cloudy / 40's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- ~~potable water~~ and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 26.40
Depth of Well (feet): 34.09
Water Column (feet): 7.69
Casing Volume (gallons/liters): 1.25
Calculated Purge Volume (gallons/liters): 3.76
Actual Purge Volume (gallons/liters): ~~5~~
Pump Intake Depth (feet): ~30'

Measuring Point Elevation (feet): ____
Groundwater Surface Elevation: ____
LNAPL present: ____ thickness: ____
DNAPL present: ____ thickness: ____
Remarks: DUP-1 collected for VOCs
Ferrous Iron (mg/L): —

Well Evacuation
Water level recovery is: very slow slow moderate (fast)
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
8:55	0								PURGE START
9:00	0.50	14.21	4.74	5.13	264.7	482	1.40	26.78	clear
9:05	0.75	13.78	4.76	5.28	214.4	511	6.93	26.65	"
9:10	1.0	13.75	4.79	6.04	222.7	545	0.76	26.63	"
9:15	1.20	13.82	4.80	5.29	227.8	569	0.45	26.65	"
9:25	1.50	13.79	4.82	5.34	235.6	588	0.20	26.64	"
9:30	1.70	13.93	4.82	5.25	239.0	598	0.00	26.65	"
9:35	1.90	13.91	4.82	5.36	239.0	598	0.06	26.65	"
9:45	S	a m	p l	e					

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	YSI	556 MPS	12/10/15
Turbidimeter	LaMotte	2020 e	12/10/15
Peristaltic Pump	Geotech	Geopump	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-3	VOCs SW 8260B	3 voa 40-mL	HCl	
AMW-3	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

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Groundwater Sampling Record

WELL No. AMW-[redacted]4	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/8/15
SAMPLE No. AMW-[redacted]4	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 16:15	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Clear, 60's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- ~~potable water and~~ phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	14.51	Measuring Point Elevation (feet):	
Depth of Well (feet):	31.79	Groundwater Surface Elevation:	
Water Column (feet):	17.28	LNAPL present:	thickness:
Casing Volume (gallons/liters):	2.82	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	8.45	Remarks:	
Actual Purge Volume (gallons/liters):	2.50		
Pump Intake Depth (feet):	26	Ferrous Iron (mg/L):	—

Well Evacuation
Water level recovery is: very slow slow moderate (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
15:28	0								PURGE START
15:30	0.30	12.41	5.39	8.22	403.0	39	242	14.54	clear
15:35	0.55	12.13	5.18	8.15	437.0	38	1.89	14.59	clear
15:40	0.75	12.01	5.22	7.98	441.7	38	0.84	14.60	clear
15:45	1.00	12.01	5.25	7.64	445.9	38	0.37	14.60	"
15:50	1.25	12.08	5.28	7.34	448.0	37	0.24	14.61	"
15:55	1.50	12.22	5.37	7.15	447.8	37	0.11	14.66	"
16:00	1.75	12.22	5.33	7.00	455.8	37	0.21	14.60	"
16:05	2.0	11.95	5.31	6.99	462.4	37	0.21	14.60	"
16:10	2.25	11.91	5.35	6.86	464.9	37	0.18	14.61	"
16:15	s a mp l e								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi Parameter	YSI	556 MPS	12/8/15
Turbidimeter	LaMotte	2020 e	12/8/15
Peristaltic Pump	GeoTech	Geopump	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-[redacted]4	VOCs SW 8260B	3 voa 40-mL	HCl	
AMW-[redacted]4	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

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Groundwater Sampling Record

WELL No. AMW-5	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/09/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY C Nolin	/EarthCon
SAMPLE TIME: 1130	SITE Dalton, GA	FIELD CONDITIONS/WEATHER P.Cldy	

Well Condition Inspection (circle one)

cover:	locked	not locked	
number:	legible	not legible	
outer casing:	good	fair	poor
inner casing:	good	fair	poor
well photographed:	yes	no	

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	25.75	Measuring Point Elevation (feet):	
Depth of Well (feet):	31.02	Groundwater Surface Elevation:	
Water Column (feet):	5.27	LNAPL present:	thickness:
Casing Volume (gallons/liters):	0.16	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	1.0 1V / 2.5 3V	Remarks: CK valve used	
Actual Purge Volume (gallons/liters):			
Pump Intake Depth (feet):	27.5'	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow (moderate) fast Bailed dry: NA yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1098	0								PURGE START
1055	I	X 13.88	6.37	9.02	126.2	393	14.3	25.97	Clear
1100	0.25 g	14.36	6.33	9.44	140.3	396	7.26	26.02	"
1105	0.50 g	14.50	6.30	9.25	153.2	382	5.81	26.03	"
1110	0.75 g	14.44	6.30	9.16	150.5	383	2.45	26.03	"
1115	1.0 g	14.52	6.31	9.15	150.7	383	1.89	26.02	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi Meter	YSI	556 SN 07F101774	12/09/15
Turbidity	La Motte	2020e SN-ME14316	12/09/15
GeoPump	GeoTech	Peristaltic SN 1938	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	3 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

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Groundwater Sampling Record

WELL No. AMW-6	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/9/15
SAMPLE No. AMW-6	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 15:15	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Cloudy, 50's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 12.13
Depth of Well (feet): 27.09
Water Column (feet): 14.96
Casing Volume (gallons/liters): 2.44
Calculated Purge Volume (gallons/liters): 7.32
Actual Purge Volume (gallons/liters): 2.35
Pump Intake Depth (feet): ~20'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L):

Well Evacuation
Water level recovery is: very slow slow moderate (fast)
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
H27	0								PURGE START
1430	0.30	15.02	5.82	7.25	286.4	111	1.73	12.44	clear
1435	0.60	14.93	5.81	7.16	289.2	110	1.02	12.43	"
1440	0.85	14.91	6.15	6.92	296.7	160	0.77	12.43	"
1450	1.50	14.92	6.30	6.88	301.4	193	0.40	12.43	"
1455	1.70	14.94	6.31	6.53	303.1	194	0.81	12.40	"
1500	2.00	14.97	6.31	6.49	304.3	196	1.08	12.40	"
1505	2.20	14.94	6.31	6.43	305.5	194	0.66		
15:15	S	a m	p l	e					

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	YSI	556- MPS	12/9/15
Turbidimeter	LaMotte	2020 e	12/9/15
Peristaltic Pump	Geotech	Geopump	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-6	VOCs SW 8260B	3 voa 40-mL	HCl	
AMW-6	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

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Groundwater Sampling Record

WELL No. AMW-7	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/08/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY CV Nolin	/EarthCon
SAMPLE TIME: 1450	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Cool, Clear	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: ~~legible~~ not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

(potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
(- air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	20.40	Measuring Point Elevation (feet):	
Depth of Well (feet):	32.79	Groundwater Surface Elevation:	
Water Column (feet):	12.39	LNAPL present:	thickness:
Casing Volume (gallons/liters):	0.16	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	2.0L / 6.0L	Remarks: Waste Water disp. in on site tote.	
Actual Purge Volume (gallons/liters):	2.0g		
Pump Intake Depth (feet):	28.5'	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow (moderate) fast Bailed dry: NA yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1400	0								PURGE START
1405	1/2 g	14.78	6.18	11.97	112.6	142	13.2	20.51	clear
1410	1.0 g	14.74	6.13	12.40	147.1	140	10.30	20.52	"
1420	1 1/2 gal.	14.76	6.11	12.64	156.2	139	9.07	20.52	"
1430	2.0 g	14.73	6.12	12.75	163.3	139	6.94	20.53	"
1440		14.72	6.11	12.69	170.0	137	5.96	20.53	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi Meter	YSI	556 SN 07F101774	12/08/15
Turb	LaMotte	2020e SN-ME 14316	12/08/15
Geo Pump	Geotech	Peristaltic Pump SN 1938	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	3 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

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Groundwater Sampling Record

WELL No. AMW-8	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/09/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY C Nolin	/EarthCon
SAMPLE TIME: 1425	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Cldy	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

(potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	26.68	Measuring Point Elevation (feet):	
Depth of Well (feet):	37.64	Groundwater Surface Elevation:	
Water Column (feet):	10.99	LNAPL present:	thickness:
Casing Volume (gallons/liters):	0.16	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	2.0 IV / 5.3 3V	Remarks: CK valve used.	
Actual Purge Volume (gallons/liters):	5.25	waste/purge H2O in onsite tote.	
Pump Intake Depth (feet):	33.0'	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow moderate fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1310	0								PURGE START
1325	IV	14.87	6.98	6.51	78.2	760	12.3	26.69	clear
1335	0.75g	14.94	6.84	4.77	97.6	715	7.14	27.70	"
1345	1.0g	14.94	6.75	4.13	104.8	648	5.24	28.01	
1355	1.5g	14.95	6.71	4.23	112.7	603	4.07	28.42	Flow reduced
1405	2.0g	14.91	6.82	3.86	119.3	706	1.09	28.51	
1415	2.25g	14.92	6.82	3.85	120.4	705	0.96	28.53	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi Meter	YSI	556 SN 07F101774	12/09/15
Turbidity	La Motte	2020e SN-ME 14316	12/09/15
Geo Pump	Geo Tech	Peristaltic Pump SN 1938	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	3 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	
	RCRA Metals 6010B/7470	1-250 mL pl	HNO_3	

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Groundwater Sampling Record

WELL No. AMW-9	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/16/15
SAMPLE No. AMW-9	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S. Woolf	/EarthCon
SAMPLE TIME:	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 60-70°F	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- (potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	37.01	Measuring Point Elevation (feet):	—
Depth of Well (feet):	47.81 (measured 12/7/15)	Groundwater Surface Elevation:	—
Water Column (feet):	10.80	LNAPL present: —	thickness:
Casing Volume (gallons/liters):	1.76	DNAPL present: —	thickness:
Calculated Purge Volume (gallons/liters):	5.28	Remarks: 10 ft screen; pink/red color	
Actual Purge Volume (gallons/liters):	2.00		
Pump Intake Depth (feet):	~43 feet	Ferrous Iron (mg/L):	not analyzed

Well Evacuation
Water level recovery is: very slow slow moderate (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
0255	0								PURGE START
0258	0.1	14.01	6.81	1.39	338.5	2311	56.2	37.49	pink/red
0305	0.6	13.63	6.97	3.73	347.1	2141	52.3	37.50	" "
0310	0.8	13.63	7.09	4.49	351.9	2092	49.5	37.50	" "
0315	1.0	13.50	7.20	5.09	360.8	2042	38.9	37.50	" "
0320	1.5	13.52	7.26	5.23	374.5	2005	22.7	37.51	slightly pink
0325	1.7	13.49	7.28	5.35	378.7	1999	17.7	37.51	" "
0330	2.0	13.51	7.28	5.33	379.9	1995	13.8	37.51	" "

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Bladder Pump	QED		
Water Quality	YSI 556 MPS	11C100915	12-16-15
Turbidimeter	LaMotte	2020we	12-16-15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	~~VOCs SW 8260B~~	~~3 voa 40 mL~~	~~HCl~~	
	~~1,4-Dioxane SW8260B-SIM~~	~~3 voa 40 mL~~	~~HCl~~	
	~~RCRA Metals 6010B/7470~~			
* NOT ANALYZED				

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Groundwater Sampling Record

WELL No. AMW-10	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd. Dalton, Whitfield County, GA	DATE 12/9/15
SAMPLE No. AMW-10	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 16:50	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Cloudy, 50's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- ~~potable water and phosphate-free soap~~
(potable water rinse)
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
(air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 24.20
Depth of Well (feet): 34.96
Water Column (feet): 10.76
Casing Volume (gallons/liters): 1.75
Calculated Purge Volume (gallons/liters): 5.26
Actual Purge Volume (gallons/liters): ~27 + 2.25
Pump Intake Depth (feet):

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
*Remarks: *0.00 NTU were displayed as negative numbers. Indicates that sample is less than blank sample
Ferrous Iron (mg/L):

Well Evacuation
Water level recovery is: very slow slow moderate (fast)
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
16:00	0								PURGE START
16:05	0.20	14.49	6.04	4.08	308.6	222	0.38	24.48	clear
16:10	0.45	14.46	6.02	2.82	309.9	221	0.26	24.78	"
16:15	0.75	14.43	6.02	2.35	307.8	221	0.00*	24.72	"
16:20	1.05	14.44	6.01	2.16	305.7	219	0.00*	24.74	"
16:25	1.40	14.37	6.01	2.34	302.9	219	0.00*	24.73	"
16:30	1.75	14.33	6.01	1.84	302.3	220	0.00*	24.62	"
16:35	1.85	14.36	6.00	1.62	303.3	219	0.00*	24.60	"
16:40	2.0	14.35	5.99	1.62	303.9	218	0.00*	24.62	"
16:50	sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	YSI	556 MPS	12/9/15
Turbidimeter	LaMotte	2020e	12/9/15
Peristaltic Pump	Geotech	Geopump	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-10	VOCs SW 8260B	3 voa 40-mL	HCl	
AMW-10	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	
AMW-10	RCRA Metals	1 250 mL HDPE	HNO_3	

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-11D	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/14/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY	/EarthCon
SAMPLE TIME: 1615	SITE Dalton, GA	FIELD CONDITIONS/WEATHER	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	22.50	Measuring Point Elevation (feet):	
Depth of Well (feet):	90.18	Groundwater Surface Elevation:	
Water Column (feet):	67.68	LNAPL present:	thickness:
Casing Volume (gallons/liters):	0.16	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	11.9gal / 33.1gal	Remarks:	
Actual Purge Volume (gallons/liters):	2.5g		
Pump Intake Depth (feet):	75.5'	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1445	0								PURGE START
1455	1	15.20	7.41	8.14	87.4	394	2.17	23.70	Clear
1510	0.5g	15.18	6.33	7.71	103.6	397	1.80	25.09	"
1525	1.0g	15.16	5.70	6.96	126.2	398	1.70	28.35	"
1540	1.5g	15.17	5.74	6.91	138.0	401	1.50	30.63	"
1555	2.0g	15.14	5.66	6.79	147.7	400	2.18	33.15	"
1610	2.5g	15.12	5.78	6.60	155.1	400	1.78	38.70	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi Meter	YSI	556 SN 07F101774	12/14/15
Turbidity	La Motte	2020e SN-ME 14316	12/14/15
Bladder Pump	RED Micro Purge	MP15 SN 11615	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	3 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

EARTHCON®

DUP-4

Groundwater Sampling Record

WELL No. AMW-12	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/16/15
SAMPLE No. AMW-12	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S. Woolf	/EarthCon
SAMPLE TIME: 1230	SITE Dalton, GA	FIELD CONDITIONS/WEATHER sunny, 50°F	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: (2" = 0.163); 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	34.85	Measuring Point Elevation (feet):	—
Depth of Well (feet):	48.17 (measured 12/7/15)	Groundwater Surface Elevation:	—
Water Column (feet):	13.32	LNAPL present: —	thickness:
Casing Volume (gallons/liters):	2.17	DNAPL present: —	thickness:
Calculated Purge Volume (gallons/liters):	6.51	Remarks: 10-ft screen	
Actual Purge Volume (gallons/liters):	2.90	DUP-4 @ 1232	
Pump Intake Depth (feet):	~44 feet	Ferrous Iron (mg/L):	Not analyzed

Well Evacuation
Water level recovery is: very slow slow (moderate) fast
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1035	0								PURGE START
1045	0.1	11.28	8.01	6.02	111.5	1054	49.1	—	clear
1055	0.7	10.99	8.06	6.17	126.2	1047	45.0	37.48	" "
1105	0.9	11.09	8.00	5.85	130.4	1049	44.1	37.55	" "
1125	~~1.2~~ 1.1	12.19	8.02	5.91	146.4	1097	42.5	37.35	" "
1135	1.3	13.37	7.73	5.19	155.6	1142	29.2	37.43	" "
1145	1.6	14.00	7.80	5.17	166.4	1139	26.2	37.95	" "
1155	1.9	14.45	7.77	5.16	180.4	1149	22.0	38.20	" "
1205	2.3	14.62	7.73	5.01	193.2	1152	12.7	38.41	" "
1210	2.5	14.84	7.73	5.02	195.3	1163	10.0	38.52	" "
1215	2.7	14.96	7.70	4.95	206.4	1168	9.5	38.53	" "
1220	2.8	15.11	7.69	4.87	219.0	1171	9.7	38.55	" "
1225	2.9	15.31	7.69	4.89	221.1	1175	7.8	38.56	" "
1230	Sampled								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Bladder Pump	QED	—	—
Water Quality	YSI556MPS	11C100915	12-16-15
Turbidimeter	LaMotte	2020we	12-16-15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-12	VOCs SW 8260B	3 voa 40-mL	HCl	
AMW-12	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	
DUP-4	VOCs SW 8260B	3 voa 40-mL	HCl	DUPLICATE-4

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-13	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/14/15
SAMPLE No. AMW-13	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S. Woolf	/EarthCon
SAMPLE TIME: 1630	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 65°F	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- (potable water and phosphate-free soap)
- ~~potable water rinse~~
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 32.50
Depth of Well (feet): 47.58 (measured 12/7/15)
Water Column (feet): 15.08
Casing Volume (gallons/liters): 2.46
Calculated Purge Volume (gallons/liters): 7.37
Actual Purge Volume (gallons/liters): 1.70
Pump Intake Depth (feet): ~45 feet

Measuring Point Elevation (feet): —
Groundwater Surface Elevation: —
LNAPL present: — thickness:
DNAPL present: — thickness:
Remarks: 10-ft screen
Ferrous Iron (mg/L): not analyzed

Well Evacuation
Water level recovery is: very slow slow (moderate) fast
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1540	0								PURGE START
1545	0.1	13.31	6.17	3.92	117.0	677	11.5	33.36	clear
1555	0.7	12.87	6.24	5.70	23.4	666	9.0	33.54	" "
1605	1.0	12.80	6.28	2.71	12.4	661	8.7	33.60	" "
1615	1.4	12.88	6.31	2.21	6.9	660	7.16	33.62	" "
1620	1.6	12.80	6.31	2.26	7.5	659	7.0	33.65	" "
1625	1.7	12.79	6.31	2.27	7.4	659	6.16	33.70	" "
1630	sampled								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Bladder Pump	QED	—	—
Water Quality	YSI 556 MPS	11C 100915	12-14-15
Turbidimeter	LaMotte	2020we	12-14-15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-13	VOCs SW 8260B	3 voa 40-mL	HCl	
AMW-13	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

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Groundwater Sampling Record

WELL No. AMW-14	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/14/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY CAO / Lm	/EarthCon
SAMPLE TIME: 1340	SITE Dalton, GA	FIELD CONDITIONS/WEATHER LT Rain, 59°F, Humidity 100%, Barp. 29.74" Winds SSE 5mph	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	33.19	Measuring Point Elevation (feet):	
Depth of Well (feet):	50.08	Groundwater Surface Elevation:	
Water Column (feet):	16.89	LNAPL present:	thickness:
Casing Volume (gallons/liters):	0.16	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	3gal IV / 8.1gal V	Remarks: Pump decon. as directed,	
Actual Purge Volume (gallons/liters):	2.5g		
Pump Intake Depth (feet):	42.5'	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: NA / yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1200	0								PURGE START
1215	1	15.80	6.41	10.40	140.9	132	20.3	33.25	Clear
1230	0.5g	15.38	5.21	7.88	172.4	183	24.8	33.29	Clear
1245	1.0g	15.33	5.02	5.58	188.9	285	28.1	33.49	"
1300	1.5g	15.32	4.99	5.55	191.4	254	21.2	34.61	"
1315	2.0g	15.39	4.92	5.64	192.1	256	17.5	33.39	"
1330	2.5g	15.42	4.89	5.50	186.5	242	10.0	33.91	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Mult. Meter	YSI	556 SN 07F101774	12/14/15
Turbidity	La Motte	2020e SN-ME 14316	12/14/15
Bladder Pump	QED MicroPurge	MP15	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	3 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

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Groundwater Sampling Record

WELL No. AM W-15	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/09/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY C No/Sn	/EarthCon
SAMPLE TIME: 1015	SITE Dalton, GA	FIELD CONDITIONS/WEATHER P.Cldy	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

(potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	12.68	Measuring Point Elevation (feet):	
Depth of Well (feet):	23.05	Groundwater Surface Elevation:	
Water Column (feet):	10.37	LNAPL present:	thickness:
Casing Volume (gallons/liters):	0.16	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	20 L / 5.03 V	Remarks: Waste water dispo. in on site tote	
Actual Purge Volume (gallons/liters):	2½ g		
Pump Intake Depth (feet):	18'	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow (moderate) fast
Bailed dry: NA yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
0900	0								PURGE START
0920	1	14.40	5.61	6.56	120.2	202	2.59	12.69	Clear
0930	½ g	15.27	5.53	7.50	151.7	153	3.31	13.80	"
0940	1.0 gal	15.01	5.47	8.06	169.7	148	2.42	14.18	"
0950	1½ g	14.73	5.48	8.52	184.0	144	1.55	14.30	"
1000	2.0 g	14.61	5.51	8.55	191.8	144	4.35	14.35	"
1010	2½ g	14.77	5.53	8.47	194.1	147	6.24	14.40	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi Meter	YSI	556 SN 07F101774	12/09/15
Turbidity	LaMotte	2020e SN-ME 14316	12/09/15
Geo Pump	GeoTech	Peristaltic Pump SN 1938	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	3 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

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Groundwater Sampling Record

WELL No. AMW-16	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/10/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY C Nolin	/EarthCon
SAMPLE TIME: 0930	SITE Dalton, GA	FIELD CONDITIONS/WEATHER P.Cldy, Calm, 46°F, Humidity 100% Bar. Pressure 30.02", Wind: 0 mph	

Well Condition Inspection (circle one)

cover:	locked	not locked	
number:	legible	not legible	
outer casing:	good	fair	poor
inner casing:	good	fair	poor
well photographed:	yes	no	

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$

Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47

Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	22.05	Measuring Point Elevation (feet):	
Depth of Well (feet):	34.72	Groundwater Surface Elevation:	
Water Column (feet):	12.67	LNAPL present:	thickness:
Casing Volume (gallons/liters):	0.16	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	2.1,IV / 6.2,3V	Remarks: CK valve wed.	
Actual Purge Volume (gallons/liters):		Waste/Purge H2O in onsite tote.	
Pump Intake Depth (feet):	26.5'	Ferrous Iron (mg/L):	

Well Evacuation

Water level recovery is: very slow slow moderate fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µS/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
0825	0								PURGE START
0830	I	13.82	6.06	7.68	138.7	163	2.77	22.13	Clear
0840	0.5 g	14.69	6.16	12.14	144.7	160	2.25	22.15	"
0850	1.0 g	14.69	6.24	11.83	153.8	170	3.04	22.13	"
0900	1.5 g	14.68	6.79	11.61	148.1	233	1.27	22.15	"
0910	2.0 g	14.69	6.86	11.53	147.8	243	1.49	22.15	"
0920	2.5 g	14.71	6.90	11.43	149.0	247	6.41	22.15	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi meter	YSI	556 SN07F101774	12/10/15
Turbidity	La Motte	2020e SN-ME 14316	12/10/15
Geo Pump	GeoTech	Peristaltic Pump SN 1938	/

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	3 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-17	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/14/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY CN/OB	/EarthCon
SAMPLE TIME: 1100	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Rain,	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: good (fair) poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

(potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
(air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	31.01	Measuring Point Elevation (feet):	
Depth of Well (feet):	40.82	Groundwater Surface Elevation:	
Water Column (feet):	9.81	LNAPL present:	thickness:
Casing Volume (gallons/liters):	0.16	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	1.6 gal v. 5.9 gal v	Remarks: Well Turbidity high w/ first draw. Poor recharge	
Actual Purge Volume (gallons/liters):	600 mL		
Pump Intake Depth (feet):	35.0'	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: (very slow) slow moderate fast
Bailed dry: N/A yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal) mL	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1000	0								PURGE START
1003	I	15.88	5.91	9.74	149.9	355	202	31.45	Cldy
1008	100 mL	15.65	6.03	9.20	143.5	343	215	31.92	"
1013	200 mL	15.91	6.12	9.77	168.8	356	244	31.90	"
1028	300 mL	15.88	6.14	9.89	170.4	341	196	32.04	" Flowrate
1038	400 mL	15.87	6.19	9.99	174.0	343	49.8	32.01	Clearer
1048	500 mL	15.97	6.02	10.07	178.8	479	41.0	34.01	Clearer
1058	600 mL	15.95	6.01	10.10	180.0	460	37.7	34.50	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi Meter	YSI	556 SN07E101774	12/14/15
Turb. Meter	LaMotte	2020e SN-ME 14316	12/14/15
Bladder Pump	QED Micropge	MP-15	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	3 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-18	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/9/15
SAMPLE No. AMW-18	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 10:30	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Cloudy, 40's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- (potable water and phosphate-free soap)
- (potable water rinse)
- water rinse: (distilled) deionized
- ~~solvent rinse~~: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 19.20
Depth of Well (feet): 24.80
Water Column (feet): 5.6
Casing Volume (gallons/liters): 0.91
Calculated Purge Volume (gallons/liters): 2.74
Actual Purge Volume (gallons/liters): 1.85
Pump Intake Depth (feet): ~20

Measuring Point Elevation (feet): ____
Groundwater Surface Elevation: ____
LNAPL present: ____ thickness: ____
DNAPL present: ____ thickness: ____
Remarks: Water contains black particles
Ferrous Iron (mg/L): ____

Well Evacuation
Water level recovery is: very slow slow moderate (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
9:47	0								PURGE START
9:50	0.25	14.24	7.19	4.48	160.4	510	4.58	19.44	clear w/ black sed.
9:55	0.50	14.02	7.22	8.06	178.2	509	2.40	19.51	"
10:00	0.75	14.16	7.24	7.40	193.0	~~507~~ 403	1.71	19.57	"
10:05	1.0	14.07	7.22	7.06	207.0	403	0.51	19.62	"
10:10	1.25	14.10	7.22	6.91	212.1	403	0.53	19.68	"
10:15	1.50	14.09	7.23	6.60	217.0	402	0.47	19.69	"
10:20	1.70	14.22	7.22	6.32	221.3	404	0.52	19.70	"
10:30	S	a	m	p	l	e			

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	YSI	556-MPS	12/9/15
Turbidimeter	LaMotte	2020 e	12/9/15
Peristaltic Pump	Geotech	Geopump	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-18	VOCs SW 8260B	3 voa 40-mL	HCl	
AMW-18	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-19	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/08/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY	/EarthCon
SAMPLE TIME: 1620	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Cool, Clear	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

(- potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
(- air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 18.09
Depth of Well (feet): 31.19
Water Column (feet): 13.10
Casing Volume (gallons/liters): @ 2" 2.1 / 8.16
Calculated Purge Volume (gallons/liters): 12/08/15 2.1 IV / 6.3 3V
Actual Purge Volume (gallons/liters): 2.02
Pump Intake Depth (feet): 25'

Measuring Point Elevation (feet): ___
Groundwater Surface Elevation: ___
LNAPL present: ___ thickness: ___
DNAPL present: ___ thickness: ___
Remarks: Waste/Purge water disp. in on site tote.
Ferrous Iron (mg/L): ___

Well Evacuation
Water level recovery is: very slow slow (moderate) fast
Bailed dry: NA yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1530	0								PURGE START
~~1534~~						131.0	4.01	18.55	
1534	I	14.62	5.32	12.65	131.0	37	4.01	18.55	Clear
1545	1 1/2 g	14.52	5.19	11.40	197.5	34	1.41	18.63	"
1555	1 g	14.50	5.11	12.70	197.9	35	1.21	18.62	"
1605	1 1/2 g	14.49	5.18	12.51	203.8	33	0.72	18.67	"
1615	2.0	14.47	5.11	12.71	213.6	33	1.36	18.67	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi Meter	YSI	556 SN 07F101774	12/08/15
Turbidity	LaMotte	2020e SN-ME 14316	12/08/15
Geo Pump	Geotech	Peristaltic Pump SN 1938	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	3 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

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Groundwater Sampling Record

WELL No. AMW-20	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/11/15
SAMPLE No. AMW-20	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 16:00	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Partly Cloudy, 60's	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	31.62	Measuring Point Elevation (feet):	
Depth of Well (feet):	41.27	Groundwater Surface Elevation:	
Water Column (feet):	9.65	LNAPL present:	thickness:
Casing Volume (gallons/liters):	1.58	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	4.72	Remarks:	
Actual Purge Volume (gallons/liters):	3.00		
Pump Intake Depth (feet):	~36'	Ferrous Iron (mg/L):	—

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
14:14	0								PURGE START
14:20	0.15	15.40	5.33	7.06	200.8	62	26.8	31.70	sl cloudy
14:25	0.30	15.13	5.29	6.80	210.0	61	42.3	31.71	"
14:30	0.50	15.23	5.32	7.00	209.7	61	47.5	31.65	"
14:35	0.65	14.92	5.31	6.74	211.3	59	47.8	31.72	"
14:40	0.80	15.13	5.34	6.74	216.7	60	44.7	31.71	"
14:45	0.95	15.31	5.36	6.64	221.3	61	51.9	31.71	"
14:55	1.05	14.77	5.35	6.74	230.7	60	42.0	31.71	"
~~15:05~~ 15:00	1.15	14.89	5.32	6.66	235.5	60	36.2	31.68	"
15:05	1.25	14.77	5.35	6.81	245.7	60	35.2	31.70	"
15:15	1.40	14.81	5.34	6.72	258.4	60	26.8	31.68	"
15:20	1.60	14.77	5.35	6.74	269.0	60	23.5	31.65	"
15:30	2.00	14.69	5.36	6.73	269.4	60	19.5	31.70	"
15:40	2.35	14.73	5.35	6.65	275.0	60	15.6	31.69	"
15:45	2.55	14.75	5.35	6.66	278.0	60	13.8	31.70	clear
15:55	3.0	14.84	5.38	6.64	283.3	61	11.1	31.64	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-parameter	YSI	556 MPS	12/11/15
Turbidimeter	LaMotte	2020e	12/11/15
Bladder Pump	QED	Micro Purge MP 50	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-20	VOCs SW 8260B	3 voa 40-mL	HCl	
AMW-20	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

EARTHCON

Groundwater Sampling Record

WELL No. AMW-21	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/11/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY CW of 1-1	/EarthCon
SAMPLE TIME: 1250	SITE Dalton, GA	FIELD CONDITIONS/WEATHER 64°F, Wind SSE 5mph, Humidity 93% Bar P. 30.05"	

Well Condition Inspection (circle one)

cover:	locked	not locked	
number:	legible	not legible	
outer casing:	good	fair	poor
inner casing:	good	fair	poor
well photographed:	yes	no	

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	34.88	Measuring Point Elevation (feet):	
Depth of Well (feet):	45.97	Groundwater Surface Elevation:	
Water Column (feet):	11.09	LNAPL present:	thickness:
Casing Volume (gallons/liters):	0.16 g	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	2gal/5.4gal	Remarks: ~~Bladder Pump~~ QED Bladder Pump.	
Actual Purge Volume (gallons/liters):	2.5g	Waste/Purge Water in onsite Tote	
Pump Intake Depth (feet):	39.0'	Ferrous Iron (mg/L):	

Well Evacuation

Water level recovery is: very slow slow moderate fast Bailed dry: NA yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1170	0								PURGE START
1115	I	15.38	5.07	8.03	182.3	151	75.3	34.60	Slight Turbid
1125	0.5g	15.53	4.98	4.79	207.1	256	18.4	34.99	Clearer
1135	1.0g	15.84	5.09	5.01	215.9	155	14.9	34.85	"
11.05	1.75 g	15.67	4.94	6.21	214.1	282	5.24	34.90	Adj Bladder; let
1230	2.00g	15.60	5.24	6.71	209.4	272	2.77	35.01	
1240	2.50g	15.47	5.36	6.93	208.0	270	2.07	34.90	

Bladder Pump | QED | MicroPurge basic | MP15 + SampleProSN | 11615

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
MultiMeter	YSI	556 SN 07F101774	12/11/15
Turbidity	LaMotte	2020e SN-WE 14316	12/11/15
~~Geo Pump~~	~~GeoTech~~	Peristaltic (W)x 12/4/15	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	3 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	3 voa 20-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	3 voa 40-mL	-	
	Sulfide SM4500-S2-F	1 250-mL HDPE	NaOH+Zn Ac	
	Ion Scan E300.0	1 125-mL HDPE	-	

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Groundwater Sampling Record

WELL No. DMW-3	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/14/15
SAMPLE No. DMW-3	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 11:15	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Rain, Cloudy, 60's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: legible not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	34.66	Measuring Point Elevation (feet):	
Depth of Well (feet):	45.40	Groundwater Surface Elevation:	
Water Column (feet):	10.74	LNAPL present:	thickness:
Casing Volume (gallons/liters):	1.76	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	5.25	Remarks:	
Actual Purge Volume (gallons/liters):	1.70		
Pump Intake Depth (feet):	~40'	Ferrous Iron (mg/L):	—

Well Evacuation

Water level recovery is: very slow slow moderate (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1039	0								PURGE START
1045	0.40	16.99	7.06	5.65	230.7	522	9.88	34.83	clear
1050	0.60	16.93	7.04	5.68	240.9	534	306	34.94	clear
1055	0.80	16.89	7.02	5.84	248.6	542	1.66	34.94	clear
1100	1.0	16.89	7.02	5.75	253.9	543	1.59	34.96	"
1105	1.25	16.93	7.00	5.74	259.1	547	1.01	34.98	"
11:10	1.45	16.91	7.00	5.87	264.0	551	0.78	34.96	"
11:15	S a	m p	l e						

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	YSI	YSI 556 MPS	12/14/15
Turbidimeter	LaMotte	2020e	12/14/15
Bladder Pump	QED	Micro Purge MP50	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
DMW-3	VOCs SW 8260B	3 voa 40-mL	HCl	
DMW-3	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

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Groundwater Sampling Record

WELL No. DMW-5	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/14/15
SAMPLE No. DMW-5	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 14:45	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 60's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: legible not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- ~~solvent~~ rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	35.59	Measuring Point Elevation (feet):	
Depth of Well (feet):	70.30	Groundwater Surface Elevation:	
Water Column (feet):	30.71	LNAPL present:	thickness:
Casing Volume (gallons/liters):	5.00	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	15.01	Remarks:	
Actual Purge Volume (gallons/liters):			
Pump Intake Depth (feet):	~60'	Ferrous Iron (mg/L):	—

Well Evacuation
Water level recovery is: very slow slow (moderate) fast Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1322	0								PURGE START
1325	0.20	18.32	7.21	4.99	231.4	556	164	35.95	cloudy
1330	0.50	17.86	7.13	1.60	238.3	555	125	36.36	"
1335	0.75	18.04	7.11	1.24	240.9	554	80.0	37.04	"
1340	0.95	18.00	7.09	1.34	241.5	561	118	37.80	"
1345	1.10	17.91	7.05	1.51	241.9	574	145	38.00	"
1350	1.25	17.88	7.05	1.54	241.9	577	122	38.35	"
14:00	1.75	17.83	7.05	1.57	241.3	572	82.2	39.03	"
14:10	2.25	18.07	6.98	2.24	240.7	603	34.1	39.45	sl cloudy
14:20	2.70	17.93	6.93	2.61	240.0	626	8.10	40.67	clear
14:25	2.80	18.26	6.94	2.69	239.6	629	5.51	40.80	"
14:30	2.95	18.84	6.94	2.78	239.6	636	4.90	40.93	"
14:35	3.05	19.18	6.94	2.79	238.9	641	5.21	41.04	"
14:45	S a	m p	l e						

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	YSI	556 MPS	12/14/15
Turbidimeter	LaMotte	2020 e	12/14/15
Bladder Pump	QED	Micro Purge MP50	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
DMW-5	VOCs SW 8260B	3 voa 40-mL	HCl	
DMW-5	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. DMW-12	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/10/15
SAMPLE No. DMW-12	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 14:30	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Partly Cloudy, 60's	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	27.82	Measuring Point Elevation (feet):	
Depth of Well (feet):	53.72	Groundwater Surface Elevation:	
Water Column (feet):	25.9	LNAPL present:	thickness:
Casing Volume (gallons/liters):	4.22	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	12.67	Remarks:	
Actual Purge Volume (gallons/liters):			
Pump Intake Depth (feet):	~40'	Ferrous Iron (mg/L):	—

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
13:34	0								PURGE START
13:40	0.35	15.32	7.28	3.46	223.4	480	2.81	28.90	clear
13:45	0.55	15.37	7.28	3.76	226.5	483	7.36	~~28.84~~	"
1350	0.75	15.34	7.27	3.23	227.9	485	8.01	28.84	"
1355	1.0	15.56	7.27	3.26	229.6	487	7.04	29.02	"
1400	1.20	15.60	7.26	3.70	229.8	490	6.25	29.15	"
1405	1.40	15.64	7.26	3.83	230.9	489	4.09	29.24	"
1410	1.55	15.64	7.25	3.38	231.4	491	3.55	29.30	"
14:15	1.70	15.62	7.25	3.57	232.0	492	2.80	29.39	"
14:20	1.95	15.80	7.25	3.79	232.6	494	2.19	29.35	"
14:25	2.05	15.69	7.22	3.35	234.6	495	2.98	29.39	
14:30	S	a m	p	l e					

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-parameter	YSI	556 MPS	12/10/15
Turbidimeter	LaMotte	2020 e	12/10/15
Peristaltic Pump	Geotech	Geopump	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
DMW-12	VOCs SW 8260B	3 voa 40-mL	HCl	
DMW-12	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

EARTHCON

Groundwater Sampling Record

WELL No. DMW-13	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/19/15
SAMPLE No. DMW-13	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S. Woolf	/EarthCon
SAMPLE TIME: 1235	SITE Dalton, GA	FIELD CONDITIONS/WEATHER rainy, 60°F	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

(potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
(- air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: (2" = 0.163); 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 37.84
Depth of Well (feet): 50.41 (measured 12/7/15)
Water Column (feet): 12.57
Casing Volume (gallons/liters): 2.05
Calculated Purge Volume (gallons/liters): 6.15
Actual Purge Volume (gallons/liters): 3.50
Pump Intake Depth (feet): ~46 feet

Measuring Point Elevation (feet): —
Groundwater Surface Elevation: —
LNAPL present: — thickness:
DNAPL present: — thickness:
Remarks: very cloudy initially
10-ft screen
Ferrous Iron (mg/L): not analyzed

Well Evacuation
Water level recovery is: very slow slow moderate (fast)
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1015	0								PURGE START
1023	0.1	12.60	6.49	4.29	206.3	387	over range	37.85	cloudy
1033	0.3	12.76	6.57	3.24	92.0	352	over range	37.94	" "
1043	0.5	12.48	6.57	3.01	67.2	349	over range	37.92	slightly cloudy
1103	1.0	12.63	6.27	4.39	77.3	201	over range	37.88	" "
1121	1.5	12.71	6.21	4.42	100.3	183	94.4	37.94	" "
1137	2.0	12.80	6.19	4.32	118.9	177	57.1	37.95	" "
1156	2.5	12.81	6.17	4.37	119.9	174	32.2	38.00	" "
1214	~~3.0~~ 2.7	12.94	6.17	4.31	120.3	172	21.5	37.98	clear
1220	3.0	13.04	6.17	4.35	121.1	173	15.9	37.99	" "
1225	3.2	13.03	6.16	4.38	124.2	172	11.7	38.01	" "
1230	3.5	13.09	6.17	4.39	127.0	173	9.89	37.95	" "
1235	Sampled								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Bladder Pump	QED	—	—
Water Quality	YSI 556 MPS	11C100915	12-14-15
Turbidimeter	LaMotte	2020we	12-14-15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
DMW-13	VOCs SW 8260B	3 voa 40-mL	HCl	
DMW-13	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

EARTHCON

Groundwater Sampling Record

WELL No. DMW-14D	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/08/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY C Nolin	/EarthCon
SAMPLE TIME: 1050	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Cool, Clear, Lt Nowind	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	15.13	Measuring Point Elevation (feet):	
Depth of Well (feet):	59.41	Groundwater Surface Elevation:	
Water Column (feet):	44.28	LNAPL present:	thickness:
Casing Volume (gallons/liters):	17.1 IV / 21.3 V	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	0.16	Remarks: Waste water disposal on site rate.	
Actual Purge Volume (gallons/liters):	4.5 g		
Pump Intake Depth (feet):	56.5'	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: NA / yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
0920	0								PURGE START
0925	1	13.57	9.08	4.60	86.6	857	12.5	14.91	Clear
0930	3/4 g	14.14	9.11	3.54	98.3	857	8.93	19.91	"
0940	1 1/2 g	14.04	9.08	3.72	108.5	857	8.15	19.96	"
0952	2.0 g	14.02	9.08	3.87	114.3	858	8.03	19.75	" adj. flow Rate
1000	2.5 g	13.99	9.08	3.95	123.5	676	7.88	26.12	"
1010	3.0 g	14.09	9.09	3.79	124.7	673	7.03	26.61	"
1020	3.5 g	13.56	9.13	3.00	122.9	662	6.69	26.59	"
1030	4.0 g	13.80	9.15	2.94	115.9	661	6.53	26.33	"
1045	4 1/4 g	13.82	9.16	2.93	112.7	664	6.71	29.29	"
							CAL 12/08/15	26.29	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi Meter	YSI	556 SN 07F101774	12/08/15
Turbidity	LaMotte	2020e SN-ME 14316	12/08/15
Geo Pump	Geotech	Peristaltic Pump SN 1938	/

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	3 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

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Groundwater Sampling Record

WELL No. DMW-15	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/8/15
SAMPLE No. DMW-15	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 10:50	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 40's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	19.29	Measuring Point Elevation (feet):	
Depth of Well (feet):	31.30	Groundwater Surface Elevation:	
Water Column (feet):	12.01	LNAPL present:	thickness:
Casing Volume (gallons/liters):	1.46	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	5.87	Remarks:	
Actual Purge Volume (gallons/liters):	~~2.5~~ to 3.5		
Pump Intake Depth (feet):	26	Ferrous Iron (mg/L):	—

Well Evacuation
Water level recovery is: very slow slow moderate (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
9:30	0								PURGE START
9:40	0.50	10.41	6.36	2.64	133.7	249	36.1	14.55	~~clear~~
9:45	0.80	10.36	6.30	2.65	146.4	238	24.3	14.57	sl cloudy
9:50	1.0	10.28	6.32	2.70	156.3	237	24.8	14.59	sl cloudy
9:55	1.20	10.26	6.29	2.59	163.4	232	21.7	14.59	"
10:00	1.50	10.66	6.30	3.10	170.2	166	16.3	14.60	"
10:05	1.75	10.60	6.26	3.00	180.1	158	14.1	14.62	clear
10:10	1.90	10.64	6.24	3.11	188.0	161	13.6	14.62	"
10.15	2.05	10.73	6.27	2.82	145.4	164	15.2	14.63	"
10.20	2.30	10.60	6.25	5.25	204.8	160	14.9	14.64	"
10.25	2.55	10.77	6.23	2.62	211.7	162	11.7	14.68	"
10:30	~~3.0~~ 2.75	10.76	6.25	2.55	218.6	163	10.55	14.66	"
10:40	3.0	10.94	6.23	2.59	227.0	160	8.06	14.65	"
10:40	3.25	10.81	6.22	2.59	233.5	162	8.51	14.66	"
10:45	3.50	10.07	6.22	2.77	241.2	156	6.73		
10:50									

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	YSI	556 MPS	12/8/15
Turbidimeter	La Motte	2020 e	12/8/15
Geopump Tech	Geopump	P104	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
DMW-15	VOCs SW 8260B	3 voa 40-mL	HCl	
DMW-15	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

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Groundwater Sampling Record

WELL No. ARW-1	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/10/15
SAMPLE No. ARW-1	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 11:40	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Windy Cloudy, 50s	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" (4") 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 26.46
Depth of Well (feet): 45.18
Water Column (feet): 18.72
Casing Volume (gallons/liters): 12.22
Calculated Purge Volume (gallons/liters): 36.67
Actual Purge Volume (gallons/liters):
Pump Intake Depth (feet): ~ 38'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks: * 0.00 represent values that appeared to low than sample blank, which are shown as negative numbers
Ferrous Iron (mg/L):

Well Evacuation
Water level recovery is: very slow slow moderate (fast)
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
10:47	0								PURGE START
10:50	0.15	14.42	7.23	4.20	248.8	484	0.35	26.52	clear
10:55	0.50	14.45	7.20	3.70	248.6	485	0.50	26.59	"
11:00	0.90	14.47	7.18	7.37	246.2	486	0.11	26.54	"
11:10	1.05	14.56	7.20	9.07	245.8	488	0.25	26.54	"
11:15	1.25	14.59	7.19	9.23	245.8	488	0.00*	26.54	"
11:20	1.45	14.52	7.19	9.01	246.5	487	0.16	26.53	"
11:25	1.50	14.59	7.19	8.93	246.7	488	0.00*	26.53	"
11:30	1.75	14.62	7.17	8.61	248.1	488	0.35	26.54	"
11:40	S	a	p	l	e				

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	YSI	556 MPS	12/10/15
Turbid. meter	LaMotte	2020 e	12/10/15
Peristaltic Pump	Geotech	Geopump	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
ARW-1	VOCs SW 8260B	3 voa 40-mL	HCl	
ARW-1	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	
ARW-1	RCRA Metals 6010B/7470	1 250 mL HDPE		

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Groundwater Sampling Record

WELL No. ARW-2	PROJECT #	02.20140392.00	LOCATION	310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/15/15
SAMPLE No. ARW-2	PROJECT NAME	AMC Dalton	FIELD PERSONNEL/COMPANY	S. Woolf	/EarthCon
SAMPLE TIME: 1005	SITE	Dalton, GA	FIELD CONDITIONS/WEATHER	Sunny, clear, 50°F	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	34.41	Measuring Point Elevation (feet):	—
Depth of Well (feet):	62.00 (measured 12/7/15)	Groundwater Surface Elevation:	—
Water Column (feet):	27.95	LNAPL present: —	thickness:
Casing Volume (gallons/liters):	18.02	DNAPL present: —	thickness:
Calculated Purge Volume (gallons/liters):	54.05	Remarks:	20-ft screen
Actual Purge Volume (gallons/liters):	2.30		
Pump Intake Depth (feet):	~51 feet	Ferrous Iron (mg/L):	not analyzed

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
0800	0								PURGE START
0805	0.1	9.96	7.03	4.37	284.8	920	over range	34.65	cloudy
0815	0.3	7.95	6.96	4.25	295.6	898	74.3	34.68	" "
0825	0.4	10.34	7.05	3.68	299.3	952	58.5	34.81	slightly cloudy
0835	0.6	10.52	7.04	4.14	313.2	959	49.0	34.90	" "
0845	0.8	10.43	7.06	4.81	324.2	954	46.3	35.00	" "
0855	1.1	10.78	7.07	5.01	334.0	960	39.4	35.02	" "
0905	1.3	10.98	7.09	5.59	347.0	965	40.6	35.09	" "
0915	1.5	11.01	7.09	5.73	354.5	967	50.5	35.10	" "
0925	1.7	11.01	7.10	5.90	363.0	965	44.0	35.10	" "
0935	1.9	11.07	7.11	5.97	370.2	968	42.2	35.14	" "
0945	2.1	11.10	7.13	6.01	377.1	968	40.2	35.18	" "
0955	2.3	11.07	7.13	6.05	379.6	968	40.7	35.20	" "
1005	Sampled								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Bladder Pump	QED	—	—
Water Quality	YSI 556 MPS	11C100915	12-15-15
Turbidimeter	LaMotte	2020we	12-15-15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
ARW-2	VOCs SW 8260B	3 voa 40-mL	HCl	
ARW-2	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. ARW-3	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/11/15
SAMPLE No. ARW-3	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry /EarthCon	
SAMPLE TIME: 12:30	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Cloudy, 60's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" (4") 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	30.42	Measuring Point Elevation (feet):	
Depth of Well (feet):	54.45	Groundwater Surface Elevation:	
Water Column (feet):	24.03	LNAPL present:	thickness:
Casing Volume (gallons/liters):	15.69	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	47.07	Remarks:	
Actual Purge Volume (gallons/liters):	3.5		
Pump Intake Depth (feet):	~	Ferrous Iron (mg/L):	—

Well Evacuation
Water level recovery is: very slow slow moderate (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
11:40	0								PURGE START
11:45	0.15	14.65	6.35	7.38	247.2	241	0.52	30.45	clear
11:50	0.30	14.53	6.32	7.13	251.8	241	0.17	30.45	"
11:55	0.40	14.47	6.834	6.85	~~240~~ 258.3	240	0.31	30.45	"
12:00	0.60	1446	6.36	6.91	259.8	239	0.29	30.44	"
12:05	0.75	14.45	6.33	6.80	261.0	240	0.49	30.45	"
~~12:10~~ 12:15	0.95	1447	6.32	6.67	268.8	240	0.34	30.45	"
12:20	1.20	1449	6.32	6.74	270.7	240	0.40	30.45	"
12:30	S	a	m	p	le				

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	YSI	556 MPS	12/11/15
Turbidimeter	LaMotte	2020 e	12/11/15
Bladder Pump	QED	Micro purge MP50	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
ARW-3	VOCs SW 8260B	3 voa 40-mL	HCl	
ARW-3	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	
	RCRA Metals 6010B/7470			

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Groundwater Sampling Record

WELL No. ARW-4	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/15/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY C. Nolin	/EarthCon
SAMPLE TIME: 1030	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Clear, 41°F, Hum. 100%, Winds N, 0mph Bar P. 29.96	

Well Condition Inspection (circle one)

cover: locked (not locked)
number: legible not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

(potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" (4") 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	29.10	Measuring Point Elevation (feet):	
Depth of Well (feet):	61.00	Groundwater Surface Elevation:	
Water Column (feet):	31.90	LNAPL present:	thickness:
Casing Volume (gallons/liters):	9.65	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	28.95 L, 63.8 gal	Remarks:	Pump removed from well 12/14/15, sample
Actual Purge Volume (gallons/liters):			purge pump in place.
Pump Intake Depth (feet):	51.5	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow moderate (fast)
Bailed dry: NA yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
0900	0								PURGE START
0925	1	15.35	6.46	3.90	110.9	595	4.88	29.21	Clear
0930	1.0	15.44	6.49	3.50	122.3	571	1.67	29.24	"
0935	2.0	15.36	6.73	4.55	122.8	567	2.47	29.20	" Flowed
0950	2.75	14.96	6.76	6.93	132.5	566	1.33	29.14	"
1005	3.50	14.98	6.78	6.90	133.7	567	1.55	29.15	"
1020	3.75	15.06	6.77	6.89	133.9	571	2.32	29.15	"
H_2O Level Meter		Heron		Dipper-T	300 ft	#28844			

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi Meter	YSI	556 SN07F101774	12/15/15
Turbidity	La Motte	2020e SN-ME 14316	12/15/15
Bladder Pump	QED MicroPurge	MP-15	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	3 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

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Groundwater Sampling Record

WELL No. OBG-W3	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/14/15
SAMPLE No. OBG-W3	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S. Woolf	/EarthCon
SAMPLE TIME: 1450	SITE Dalton, GA	FIELD CONDITIONS/WEATHER rainy, 60°F	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

(potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: (2" = 0.163); 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 35.70
Depth of Well (feet): 44.31 (measured 12/7/15)
Water Column (feet): 8.61
Casing Volume (gallons/liters): 1.40
Calculated Purge Volume (gallons/liters): 4.21
Actual Purge Volume (gallons/liters): 1.20
Pump Intake Depth (feet): ~40 feet

Measuring Point Elevation (feet): —
Groundwater Surface Elevation: —
LNAPL present: — thickness:
DNAPL present: — thickness:
Remarks: 10-ft screen
Ferrous Iron (mg/L): not analyzed

Well Evacuation
Water level recovery is: very slow slow moderate (fast)
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1350	0								PURGE START
1400	0.1	15.28	6.52	4.76	225.7	277	22.5	35.80	clear
1410	0.25	14.81	6.45	8.24	212.6	264	20.0	35.86	" "
1420	0.7	14.98	6.57	9.42	195.4	268	13.8	35.84	" "
1425	0.8	15.13	6.57	9.61	188.1	271	10.1	35.85	" "
1430	0.9	15.09	6.57	9.77	183.1	272	9.2	35.85	" "
1435	1.0	14.99	6.58	9.81	177.5	272	7.8	35.85	" "
1440	1.1	14.93	6.58	9.86	175.3	272	6.8	35.85	" "
1445	1.2	14.96	6.59	9.89	171.8	273	7.2	35.85	" "
1450	sampled								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Bladder Pump	QED	—	—
Water Quality	YSI 556 MPS	11C100915	12-14-15
Turbidimeter	LaMotte	2020we	12-14-15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
OBG-W3	VOCs SW 8260B	3 voa 40-mL	HCl	
OBG-W3	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

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Groundwater Sampling Record

WELL No. OBG-W4	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/9/15
SAMPLE No. OBG-W4	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 13:25	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Cloudy, 40's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- (potable water and phosphate-free soap)
- (potable water rinse)
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 25.50
Depth of Well (feet): 41.80
Water Column (feet): 16.3
Casing Volume (gallons/liters): 2.66
Calculated Purge Volume (gallons/liters): 7.97
Actual Purge Volume (gallons/liters): ~3.0
Pump Intake Depth (feet): ~36'

Measuring Point Elevation (feet): ____
Groundwater Surface Elevation: ____
LNAPL present: ____ thickness: ____
DNAPL present: ____ thickness: ____
Remarks: ____
Ferrous Iron (mg/L): ____

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
12:29	0								PURGE START
12:35	0.50	14.03	6.13	10.66	228.9	151	83.4	25.66	cloudy
12:40	0.75	13.94	6.12	10.67	235.8	150	28.9	25.66	"
12:45	1.0	13.91	6.13	10.09	240.6	152	21.4	25.67	sl cloudy
12:50	1.25	13.90	6.16	9.88	244.4	157	18.7	25.63	"
12:55	1.50	13.94	6.16	9.55	247.4	157	15.9	25.63	"
13:00	1.75	13.90	6.13	9.16	252.5	155	10.4	25.63	clear
13:05	2.0	13.91	6.14	8.47	256.0	156	9.64	25.65	"
13:10	2.20	13.91	6.10	8.63	259.9	152	9.78	25.64	"
13:15	2.50	13.81	6.11	8.53	263.3	152	7.70	25.64	"
13:20	2.70	13.82	6.08	8.28	266.8	150	7.89	25.65	
13:25	s a	m p	l	e					

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	YSI	556-MPS	12/9/15
Turbidimeter	LaMotte	2020e	12/9/15
Peristaltic Pump	Geotech	Geopump	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
~~AMW-~~OBG-W4	VOCs SW 8260B	3 voa 40-mL	HCl	
OBG-W4	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

12/09/15

OBG-W5

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Groundwater Sampling Record

WELL No. OBG-MW5	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/9/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY CWolin	/EarthCon
SAMPLE TIME: 1645	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Cldy, Calm, 59°F, Winds 0 Bar P: 29.97" Humidity 76%	

Well Condition Inspection (circle one)

cover: (locked) not locked — replaced
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- ~~potable water and phosphate-free soap~~
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	5.20	Measuring Point Elevation (feet):	
Depth of Well (feet):	15.90	Groundwater Surface Elevation:	
Water Column (feet):	10.70	LNAPL present:	thickness:
Casing Volume (gallons/liters):	1.71 L / 5.13 V	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	.16	Remarks:	
Actual Purge Volume (gallons/liters):			
Pump Intake Depth (feet):	10.5'	Ferrous Iron (mg/L):	

Well Evacuation

Water level recovery is: very slow slow moderate fast — Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1600	0								PURGE START
1602	1	14.48	6.57	7.84	95.6	368	1.52	5.32	Clear
1612	0.5 g	14.49	6.50	7.30	100.7	364	1.73	5.35	"
1620	1.0 g	14.61	6.49	7.06	111.9	371	2.13	5.35	"
1630	1.5 g	14.62	6.53	7.04	118.3	399	2.00	5.34	"
1640	2.0 g	14.74	6.74	6.79	119.9	429	1.84	5.35	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi Meter	YSI	556 SN 07F101774	12/09/15
Turb.	La Motte	2020e SN-ME 14316	12/09/15
Geo Pump	Geo Tech	Peristaltic Pump SN 1938	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	3 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

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Groundwater Sampling Record

WELL No. OBG-W8	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/8/15
SAMPLE No. —	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry /EarthCon	
SAMPLE TIME: —	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Partly Cloudy, 60s	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	16.08	Measuring Point Elevation (feet):	
Depth of Well (feet):	52.12	Groundwater Surface Elevation:	
Water Column (feet):	36.04	LNAPL present:	thickness:
Casing Volume (gallons/liters):	5.87	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	17.6	Remarks: Drawdown issues. Will retry w/ different type of pump	
Actual Purge Volume (gallons/liters):			
Pump Intake Depth (feet):	~46	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
14:24	0								PURGE START
14:30	0.40	12.08	9.88	9.20	408.5	326	5.06	18.40	clear
14:35	0.55	12.37	9.91	8.60	388.1	329	5.68	19.02	"
14:40	0.75	12.14	9.93	8.39	371.7	327	5.57	20.29	"
14:45	1.0	11.99	9.94	8.20	363.1	328	5.79	21.55	"
14:55	1.20	12.08	10.00	7.73	347.6	329	8.50	24.05	"
	stop purging.								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	YSI	556 MPS	12/8/15
Turbidimeter	LaMotte	2020e	12/8/15
GeoTech	Grapump	P104	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	3 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

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Groundwater Sampling Record

WELL No. OB6-W8	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/15/15
SAMPLE No. OB6-W8	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 10:10	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Clear, 50's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: good fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- ~~solvent~~ rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 18.01
Depth of Well (feet): 52.12
Water Column (feet): 34.11
Casing Volume (gallons/liters): 5.55
Calculated Purge Volume (gallons/liters): 16.68
Actual Purge Volume (gallons/liters): 2.5
Pump Intake Depth (feet): ~47'

Measuring Point Elevation (feet): ____
Groundwater Surface Elevation: ____
LNAPL present: ____ thickness: ____
DNAPL present: ____ thickness: ____
Remarks: Soapy appearance. Issues w/ drawdown. Similar to previous sampling event
Ferrous Iron (mg/L): ____

Well Evacuation
Water level recovery is: (very slow) slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
9:03	0								PURGE START
9:10	0.20	12.64	10.17	4.08	148.9	266	52.7	19.20	clear
9:15	0.35	12.91	10.07	3.16	205.0	258	18.3	2000	"
9:20	0.50	13.23	10.06	2.92	207.7	258	11.5	20.81	"
9:25	0.75	13.35	10.05	2.60	209.4	258	9.65	22.35	"
9:30	0.95	13.37	10.04	2.44	211.6	256	8.91	23.34	"
9:35	1.20	13.34	10.04	2.36	212.6	257	8.93	24.70	"
9:40	1.35	13.38	10.04	2.50	212.4	257	7.96	25.70	"
9:50	1.70	13.39	10.04	2.47	212.2	255	7.52	28.20	"
9:55	1.95	13.47	10.04	2.39	211.8	256	7.43	29.56	"
10:00	2.10	13.50	10.04	2.44	210.6	256	6.27	30.34	"
10:10	sample							33.62 @ 10:22 AM	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	YSI	556 MPS	12/15/15
Turbidimeter	LaMotte	2020 e	12/15/15
Bladder Pump	QED	Micropurge MP50	←

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
OB6-W8	VOCs SW 8260B	3 voa 40-mL	HCl	
OB6-W8	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. MW-23	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 12/15/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY CDN/LM	/EarthCon
SAMPLE TIME: 1645	SITE Dalton, GA	FIELD CONDITIONS/WEATHER 66°F, Humidity 55%, Barr. 29.91", Wind NNW 3mph	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 36.04
Depth of Well (feet): 60.06
Water Column (feet): 24.02
Casing Volume (gallons/liters): 0.16
Calculated Purge Volume (gallons/liters): 40gal V / 12.5gal V
Actual Purge Volume (gallons/liters):
Pump Intake Depth (feet): 45.51

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: No 12/15/15 thickness:
DNAPL present: No thickness:
Remarks: ~~Dup Site~~ Diffusion Sock Filled of Lab bottle DI & reinstalled. @1655
Ferrous Iron (mg/L):

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1500	0								
1510	I	15.77	6.91	7.70	89.5	270	55.8	36.20	PURGE START
1520	0.5g	15.88	7.03	9.21	90.1	280	50.8	36.09	~~Cloudy~~ light
1535	1.0g	15.57	6.92	8.02	101.9	366	48.6	36.35	Clear, " " Mod
1550	1.5g	15.45	6.89	8.46	112.2	209	30.5	36.70	"
1605	2.0g	15.36	6.87	8.10	112.2	362	22.3	36.22	"
1620	2.5g	15.28	6.85	8.08	124.9	335	17.6	36.19	"
1630	2.75g	15.26	6.84	8.00	126.4	341	9.89	36.20	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Bladder Pump	QED MicroPurge	MP-15 Pump 12445	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	3 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	3 voa 20-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	3 voa 40-mL	-	
	Sulfide SM4500-S2-F	1 250-mL HDPE	NaOH+Zn Ac	
	Ion Scan E300.0	1 125-mL HDPE	-	

EARTHCON
Environmental Challenges
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Surface Water Sampling Field Data Form

STATION IDENTIFICATION: ASW- Upstream	PROJECT NAME: AML Dalton	DATE: 12/16/14
FACILITY NUMBER:	LOCATION: Dalton, GA	TIME: 14:30
SAMPLING CONTACT/COMPANY: Earthcon	SAMPLER'S PROJECT NUMBER: 02.2014.0392.00	

FIELD CONDITIONS/ WEATHER: Mostly Sunny, 60's

FIELD TEAM (signature/company): Samantha Woolf and Keaton Henry

FIELD MEASUREMENTS

Gauge Height: — Substrate Level on Gauge: — pH: 7.14

Dissolved Oxygen (ppm): 5.04 Water Temperature (°C): 10.58

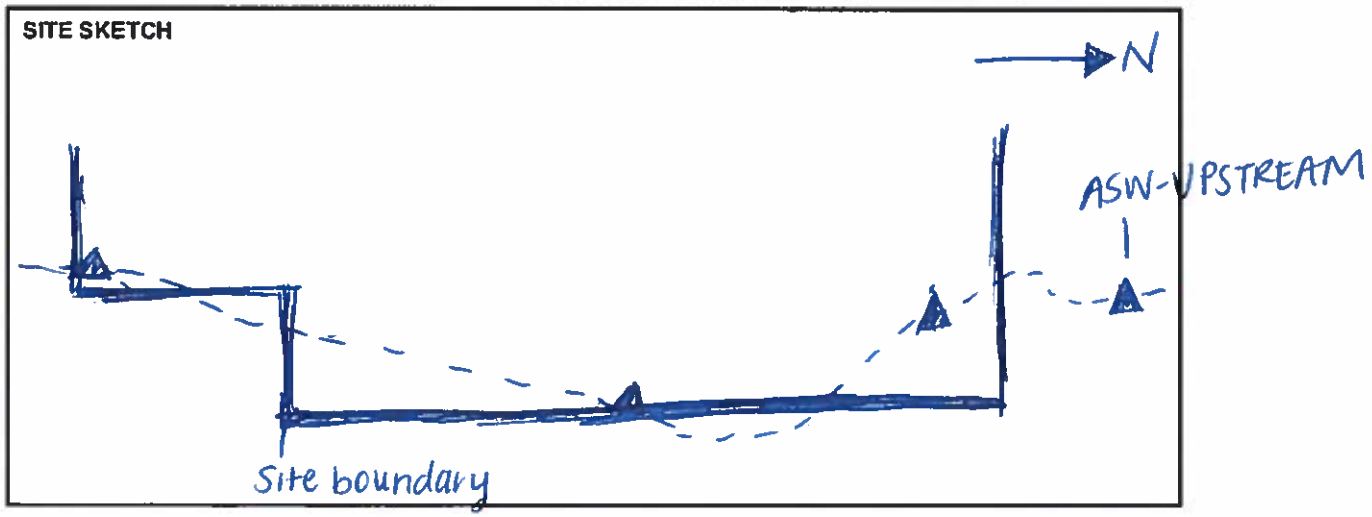
SC @ Field Temperature (microhos/cm): 680 Estimated Streamflow (cfs): —

Turbidity: 5.0 NTU

WATER QUALITY SAMPLES

	SAMPLE No.	DATE / TIME	STATION	CONTAINER TYPE	FILTERED	PRESERVATIVE	ANALYSIS
1.	ASW-	12/16/15/	14:30	3 40mL Voa	NO	HCl	VOCs
2.	UPSTREAM						
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							

SITE SKETCH



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Environmental Challenges
BUSINESS SOLUTIONS®

Surface Water Sampling Field Data Form

STATION IDENTIFICATION: ASW-1	PROJECT NAME: AMC Dalton	DATE: ~~12/16/15~~ 12/16/15
FACILITY NUMBER:	LOCATION: Dalton, GA	TIME: 14:20
SAMPLING CONTACT/COMPANY: EarthCon	SAMPLER'S PROJECT NUMBER: 02201403 92.00	

FIELD CONDITIONS/ WEATHER: Mostly Sunny, 60's

FIELD TEAM (signature/company): Samantha Woolf and Keaton Henry

FIELD MEASUREMENTS

Gauge Height: — Substrate Level on Gauge: — pH: 7.26

Dissolved Oxygen (ppm): 5.85 Water Temperature (°C): 10.41

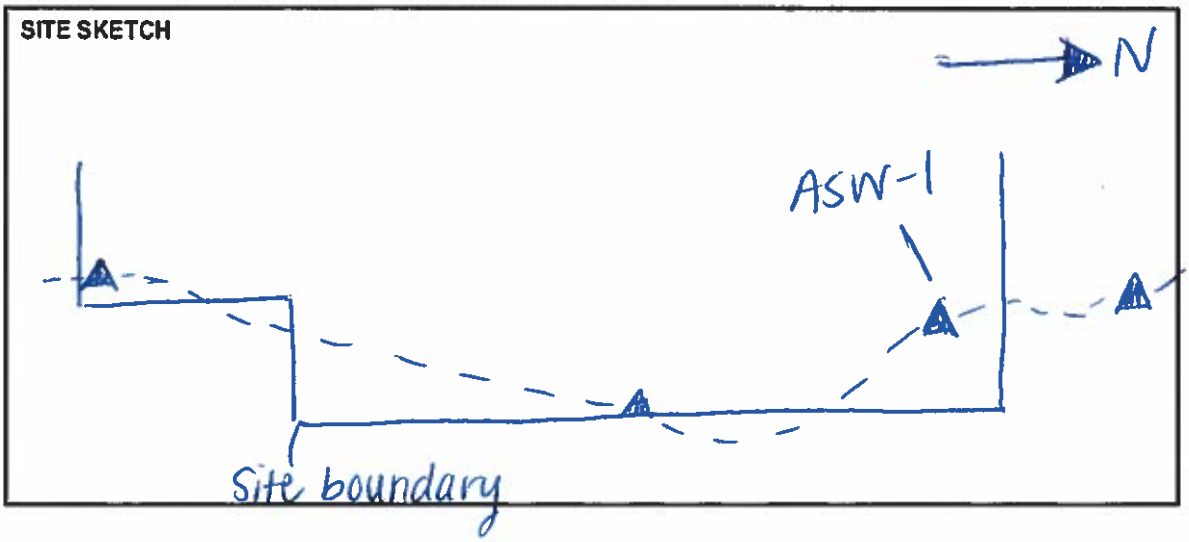
SC @ Field Temperature (microhos/cm): 662 Estimated Streamflow (cfs): —

Turbidity: 5.7 NTU

WATER QUALITY SAMPLES

	SAMPLE No	DATE / TIME	~~STATION~~	CONTAINER TYPE	FILTERED	PRESERVATIVE	ANALYSIS
1.	ASW-1	12/16/15	14:20	3 40 mL VOA	NO	HCl	VOCs
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							

SITE SKETCH



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Surface Water Sampling Field Data Form

STATION IDENTIFICATION: ASW-2	PROJECT NAME: AML Dalton	DATE: 12/16/15
FACILITY NUMBER:	LOCATION: Dalton, GA	TIME: 14:00
SAMPLING CONTACT/COMPANY: EarthCon	SAMPLER'S PROJECT NUMBER: 02.20140392.00	

FIELD CONDITIONS/ WEATHER: Mostly Sunny, 60°F

FIELD TEAM (signature/company): Samantha Woolf and Keaton Henry

FIELD MEASUREMENTS

Gauge Height: — Substrate Level on Gauge: — pH: 7.18

Dissolved Oxygen (ppm): 5.96 Water Temperature (°C): 12.42

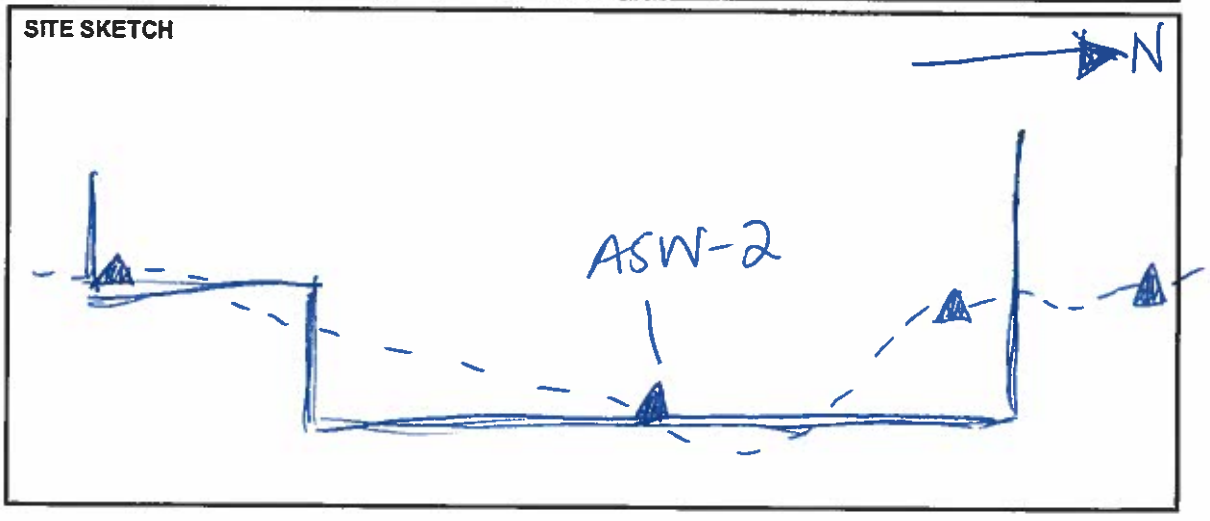
SC @ Field Temperature (microhos/cm): ~~12,42,776~~ Estimated Streamflow (cfs): —

Turbidity: 5.6 NTU

WATER QUALITY SAMPLES

	SAMPLE No.	DATE / TIME	~~STATION~~	CONTAINER TYPE	FILTERED	PRESERVATIVE	ANALYSIS
1.	ASW-2	12/16/15	14:00	3 40mL VOA	NO	HCl	VOCs
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							

SITE SKETCH



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Environmental Challenges
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Surface Water Sampling Field Data Form

STATION IDENTIFICATION: ASW-BYPASS	PROJECT NAME: AMC Dalton	DATE: 12/16/15
FACILITY NUMBER:	LOCATION: Dalton, GA	TIME: 13:45
SAMPLING CONTACT/COMPANY: EARTHCON	SAMPLER'S PROJECT NUMBER: 02.20140392.00	

FIELD CONDITIONS/ WEATHER: Mostly Sunny, 60's

FIELD TEAM (signature/company): Samantha Woolf and Keaton Henry

FIELD MEASUREMENTS

Gauge Height: — Substrate Level on Gauge: — pH: 7.42

Dissolved Oxygen (ppm): ~~580~~ 4 (RA) Water Temperature (°C): 16.62

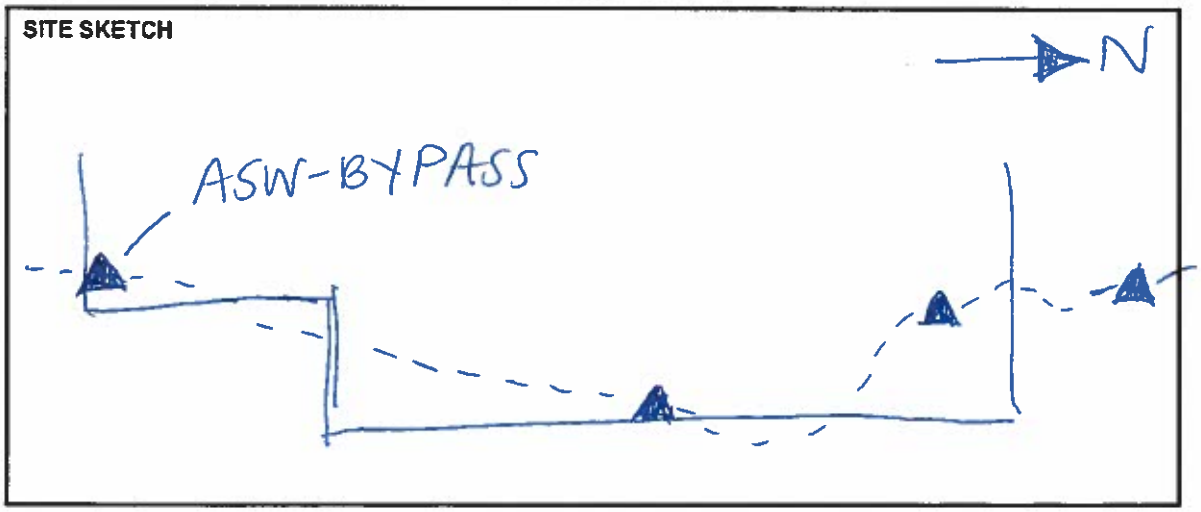
SC @ Field Temperature (microhos/cm): ~~4580~~ (RA) Estimated Streamflow (cfs): —

Turbidity: 7.6 NTU

WATER QUALITY SAMPLES

	SAMPLE No.	DATE / TIME	~~STATION~~	CONTAINER TYPE	FILTERED	PRESERVATIVE	ANALYSIS
1.	ASW-	12/16/15	13:45	3 40mL VOA	NO	HCl	VOCs
2.	BYPASS						
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							

SITE SKETCH



AMC Dalton 10/7/15

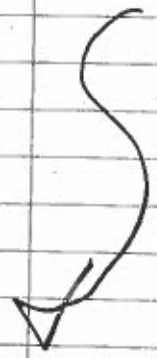
Keaton Henry
Butch Kemp
- Partly Cloudy, 40s-60s

- Arrived on-site at 7:24
- Signed in at 7:30 Spoke to Rich about pumps being on. Ultimately pumps were off but the compressor was still on. Compressor was turned off at approx 7:40.
- Began unloading vehicle at 7:45
- Began opening flush mounts and WL sampling readings at 8:30.
- Spent approx 1 hr looking for OBG-W from 9:40 → 10:40. Did not find
- Tree branches were on roads in Fire Release Area. A large branch fell on AMW-10.

Rite in the R

AMC Dalton 12/7/15

- Left for launch at 13:34
- Arrived back on-site at 14:06.
- Resume WL at 14:10
- Note * permanganate at AMC-9 was a reddish brown color, not ~~purple pink as previous sampling events~~.
- used 2 new locks for bolts
- Finish collecting WL at 17:30. Began looking for OBG-W7 to no avail
- left site at 17:55



AMC Dalton 12/8/15

Keaton Hong
Butch Nolen
Weather - Partly cloudy
30's-60's

- Arrived on site at 7:10 AM
- Calibrate YSI 556 MPS - KH 12/8/15 11C100915
  - pH - 7 ~~DEP~~ 4 ✓, ~~manly~~ ~~97.3%~~ 10 ✓
  - DO - 7.39 ✓ manly → 97.3% ✓
  - Cond - 449 ✓
  - ORP - 228 mV
  - having issues w/ calibration - Contact AJR
- Lamotte 2020 e/i - SN-ME14316
  - 10 - 10.28 ✓
  - 1.0 - 0.70 ✓
  - 0 - Blank
- Arrived at DMW-15 at 9:05
- Began purging at 9:30

Rite in the Rain

AMC Dalton 12/8/15

- Sampled DMW-15 at 10:50
- left well at 11:30

- Utility vehicle arrived at 12:15

- Left site for lunch at 12:35
- Arrived back on site at 13:20

- Arrived at OBG-MW 13:45
  - had issues getting tubing down well. Eventually got it to ~43'
  - began purging at 14:24
  - stop pumping at 14:55 due to excessive pd drawdown. Will reattempt purging at a later time.
  - left well at 15:05

- Arrived at 15. AMW-4 at 15:13
  - began purging at 15:28
  - sample at 16:10
  - left well at 14:42

AMC Dalton 12/8/15

- Left site at 17:15



Rite in the Rain

AMC Dalton 12/9/15

Keaton Henry
Butch Nolan
Mostly Sunny, 30s-50s

- Arrived on-site at 7:10

YSI Calibration - 7:15

DO : initial = 12.07 mg/L → 14.12 mg/L
pH 7 : 7.0 ✓ Δ 0.8 °C
4 : 4.0 ✓
cond. 4.49 : 4.49 ✓
ORP 228 : ?

LaMotte 2020 eli S/N-ME 13625
1 NTU → ~~1.35~~ 0.91 ✓
10 NTU → 9.81 ✓

ORP - kept drifting - will not stabalized. Will use different YSI

Joe McKinney arrived at approx 8:00

AMC Dalton 12/9/15

YSI 556 MPS S/N 07A1477 AF, 8:35
DO 9.70 - 12.20
initial → final temp 7.16°C
pH 7 ✓
4 ✓
cond 4.49 → 4.50 ✓
ORP - 228 mV ✓

- Arrived at AMW-28 at 9:10
- Began purging at 9:47
  - water has black sand and silt particles.
- Sampled at 10:30
- Left well at 10:55

- Joe McKinney found well OBG-W7

- Arrived at OBG-W4 at 11:15
  - Issues w check valve were resolved
  - Began purging at 12:
  - Sampled at 13:25
  - Left well at 13:45

Rite in the Rain

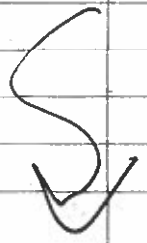
AMC Dalton 12/9/15

- Arrived at AMW-6 at 14:06
- Began purging at 14:27
- Sampled at 15:15
- left well at 15:30

- Dropped AMW-6 off to be shipped w/ other samples

- Arrived at AMW-10 at 15:44
- Began purging at 16:00
- Sample at 16:50
- Left well at 17:15

- Left site at 17:40



AMC Dalton 12/10/15
Keaton Henry
Butch Nelson

- Arrived at 7:10 S/N 07A1477 AF

Calibrate YSI 556 MPS - S/N
DO - 10.50 → 9.70 @ 16.67°C
initial ✓ final temp
pH 7.0 ✓
4.0 ✓
cond 4.49 - 4.49 ✓
ORP - 228 - ✓

LaMotte 2020we SN-ME 13625
1.0 - 1.02 ✓
10 - 10.10 ✓

- Arrived at AMW-3 at 8:10
- Began purging at 8:55
- used check valve
- Sampled at 9:35 collected DUP for VOCs

Rite in the Rain

AMC Dalton 12/10/15

- Left AMW-3 at 10:10
  well need new lock

- Arrived at AMW-1 at 10:15
  began purging at 10:47 (Cured check valve)
  sampled at 11:40
  left well at 12:00

- Left site for lunch at 12:25

- Arrived on-site at 13:05

-

- Arrived at DMW-12 at 13:08
  Began purging at 13:34
  -used check valve)
  - Sampled at 14:30
  - left well at 14:55

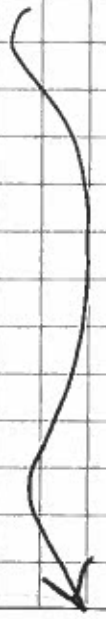
- Left site to grab ice at
  15:20
- arrived back on-site at 15:35

↓

AMC Dalton 12/10/15

- Note: bladder pump shipped are not the one that we need. Accessories will be shipped to hotel at 4pm tomorrow morning. (12/11/15)

- left site at 17:05



Rite in the Rain

AMC Dalton 12/11/15
Keaton Henry
Butch Nolan
Weather, Cloudy - P. Cloudy, Breezy, 40's - 60's

- Arrived at on site at 7:05

- Calibrate equipment
  - YSI 556 MPS - S/N 07A1477 AF
    DO - 9.00 - 9.26 Temp 19.36°C
    initial final
    pH - 7.0 ✓
    4.0 ✓
    cond - 449 ✓
    ORP - 229 mV ✓
  - LaMotte 2020e turbidimeter SN - ME - 13625
    1.0 - 0.99 ✓
    10.0 - 9.92 ✓

- Arrived at DMW-11 at 7:50
  - Began purging at 8:22
  - Sampled at 9:03
  - Left well at 9:45

AMC Dalton 12/11/15

- Organized bladder pump equipment which was picked up by J. McKinney
- 9:05 → 10:40

- Arrived at ARW-3 at 10:45
  - Began purging at 11:40
    - issues setting up bladder pump (resolved)
  - Sampled at 12:30
  - left well at 12:55

- Left site at 13:05 to buy jumper cables for J. McKinney's car battery died at MW-24

- Arrived back on site at 13:40

- Arrived at AMW-20 at 13:55
  - began purging at 14:14
  - sampled at 16:00

- Left well to meet w courier at 16:20.

Rite in the Rain

AMC Dalton 12/11/15

- Canisyer arrived at 16:15, left w/ samples b/t 16145 at 17:00
- Packed up equipment and remaining bottles and left site at 17:30

AMC Dalton 12/14/15

K. Horny
B. Nolan
S. Wolff
- Weather, Rain, wind, 60

- Arrival at 8:15
- Calibration - YSI 556 MPO / SN 07A1477AF
  - DO 8.39 mg/L 9.26 mg/L 18.6%
    initial - final
  - pH - 7.0 ✓
  - 4.0 ✓
  - cond - 449 - 4.49 ✓
  - ORP - 228 mV ✓

LaMotte 2020e ME 13625
- DO - 6.99 ✓
- 10 - 9.96 ✓

- Arrived at DMW at ~~DMW~~ 3 at 10:00
  - Began purging at 10:39
  - Sampled at 11:15
  - left well to clean equipment at 11:35

Rite in the Rain

AMC Dalton 12/14/15

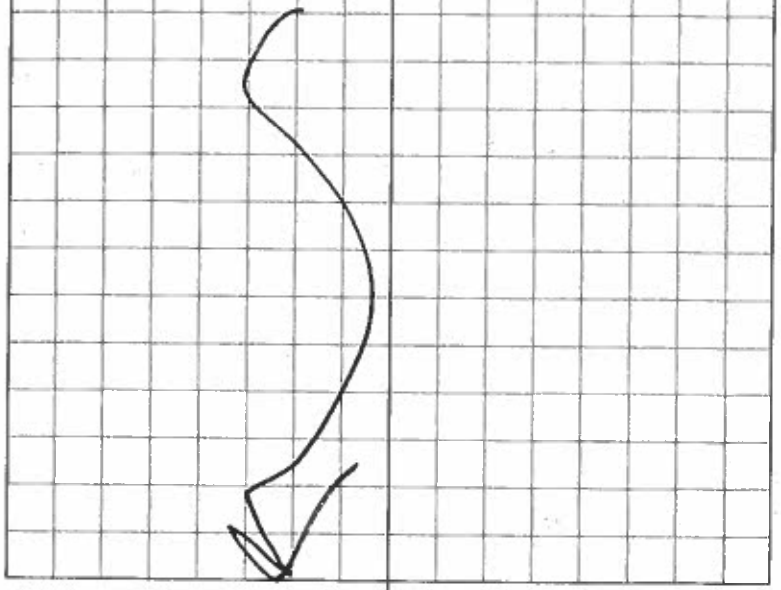
- Left site for lunch at 12:13
  - also went to purchase large trash bags
- Arrived back on-site at 12:56
- Arrival at DMW-5 at 13:00
  - began purging at 13:22

* Call from K Rivera at 14.24
  Pace lab missed hold time for nitrates. for OBG-VI. Must resample for nitrates (unpreserved 125 mL bottle)

- Sampled at 14:[illegible]
- left well at 15:15 to decon pump
- put new lock on AMW-3 and reorganized coolers

AMC Dalton 12/15/14

- Meet w/ Currier at 16:40.
- Assisted w/ pump placement in AMW 2 and AMW 4
- Left site at 17:55



Rite in the Rain

AMC, Dalton 12/15/15
Keaton Henry
Butch Nolan
Samantha Woolf

- Arrived at 7:05
- Calibrate at YSI 556 MPS
  S/N 07A 1477 AF
  - DO

initial	final	temp
10.64	9.45	18.35°C

pH 7.0 ✓
4.0 ✓
cond 4.49 ✓
ORP - 228.0 ✓

Turbidimeter -
1.0 - 1.08 ✓
10 - 10.16 ✓

- Arrived at OBG-W8 at 7:55
  - pump tubing got stuck inside well

AMC Dalton 12/15/15

- w/ assistance of B Nolan, was able to untangle tubing and pull up bladder pump. Replace teflon-lined tubing and redeployed bladder pump
- Began purging at 9:03
- Notified by K. River that utility vehicle will be picked up tomorrow morning
- Sampled at 10:10
  * Noted the water had a bubbly (soapy) appearance
  - Could not get drawdown to stabilized
- left well at 10:45 to decon pump
- Arrival at OBG-W2 at 11:20
- Began purging at 11:46
  - had to lower pump from 37' to 40' due to drawdown

Rite in the Rain

AMC Dalton 12/15/15

- Sampled at 13:00
  - sampling was slower than usual. lots of air bubbles in tubing
- left well at 13:43 to decon pump
- Arrived at OBG-W1 to resample for nitrates. (14:26)
- Began purging at 14:41. very turbid water (4713 NTU → 7.69 NTU
  - Sampled at 16:00
- Courier came and picked up samples at 16:20
- Collected Rinsate blank 1 at 17:00
- Placed pumps in DMW-7/RW-1, DMW-9/RW-3, OBG-W7.
- Left site at 18:15.

AMC Dalton 12/16/15

K. Henry
B. Nolan
S. Woolt

- Arrived on-site at 7:00
- Calibrate

YSI 556	DO	9.45 → initial	9.45 final	18.36°C temp
MPS	pH	7.0 ✓		
SN 07A1477AP		4.0 ✓		
	Cond.	4.49 ✓		
	ORP	228 ✓		
Turbidimeter	1.0 – 1.04 ✓			
S/N ME 13635	10	9.86 ✓		

- Arrived at OBG-W7 at 7:30
- Began purging at 7:43
  - at approx 8:00, turbidimeter battery died. Turbidity readings after 8:00 were analyzed using LaMotte

Rite in the Rain.

RMW | Walton 12/16/15

- Sampled at 8:45
- Hertz picked up utility vehicle at
- Arrival at MW-24 at 9:30
- got vehicle stuck in mud
- Began purging at 10:22
- Sampled at 11:30
- Assisted w/ Sam Woolf w/ surface water sampling. (13:30 - 14:40)
- Packed site and left at 17:30
- Met w/ courier at Pilot near Exit 328 and I-75 to exchange coolers at 17:40.

S/

Mon.
12/07/15 AMC Dalton

05 CK Nolan & Keating Henry
Project # 02201403912.00
05 Task 12
0730 Meeting w/client
unload, stage work area
HASP meeting by Keating Henry
Blowers were running client said draw down off
0840 H_2O Levels
Open all flush mount wells
then collect H_2O Lvls/TD

1800 Left Site

Rite in the Rain.

12/08/15 Tue

0718 YSI Cal Mod 556

SN 07F101774

		Int. Reading	Adj. To
07:40	Air-Cal		
DO	air-cal		
Do	8.13 mg adj Buffer	To 9.89	11.83 @ 8°C
PH	7.0	6.83	7.00
	4.0	3.93	4.00
Cond 07:50	4.49 mS/cm Buffer	4.485	4.489
Turb	LaMotte Mod. 2020e PN 26858		
07:52	PK 00	0.00	
	1.00	1.28	
	10.00	9.39	10.00
ORP	228 mV	248.9 mV	228.0

all Buffers by Atlantic Instrument Rental

ORP Cal 228 mV

Lot # C361782 Exp 5/2016

Cond 4.49 mS/cm

Exp 4/2016 AutoCal Solution PH 4.0

Lot # C3580642 Turb NTU 0-0

Cal PH 7.00 Buffer - Lot # C470239

Exp 5/2046

MR Atlantic ~~Enc~~ Rental

12/08/15 Dalton, GA

Cont.

BX Samples collected from wells:

DMW-140

AMW-19

AMW-7

MW-140 12:05

Rite in the Rain

W 12/09/2015
Dalton, GA

Cal YSI 556 SN 07F101774
C0710

Cal.	Buffer	Temp °C	Int. Reading	Time	Final Reading
DO	air cal	3.73	11.80	0720	13.42
pH	7.00	4.40	7.06	0730	7.00
	Lot C470239 Exp. 5/2016, Alt. Inst Reader				
	4.00	5.28	3.95	0733	4.00
	Lot C3580642, Exp. 4/2016, Alt. Inst. reader				
Cond.	4.49 mS/cm	5.34		0740	4.496
	cal in mS/cm				
ORP	228 mV	5.39°C	233.2	0745	228.0
	Lot# C361782 / 5/2016 / MF Alt Inst Reader				
Turbidity	2020e SN-ME 14316				
	0.0	0758			0.00 nTu
	1 nTu		1.24		1.17 nTu
	10 nTu		9.97		10.07

12/09/15

H 12/10/15

AMC Dalton, GA
Cal.
YSI 556 SN 07F101774 C0710

Parameter	Meter time	Buffer	Temp.	Int. Reading	Final Reading
DO	7:05		17.44	9.53	9.66
	Chart 9.65e 17°C				
pH	1:7	7.00	15.40	6.96	7.00
	Buffer 7.00 Lot# C470239 Exp 5/2016 Alt Inst Reader				
pH	07:18	4.00	16.50	4.08	4.00
	Buffer 4.00 Lot# C3580642 Exp 4/2016 Alt Inst Reader				
Cond.	07:20				4.611
	Buffer 4.49 mS/cm Lot# C3580642 Exp 4/2016				
ORP	07:23	228 mV		209 mV	228 mV
	Lot C361782 Exp 5/2016 Alt. Inst Reader				
Turbidity	2020e SN-ME 14316				
CCV	07:25	0.00			0.00
	07:26	1 nTu			1.07
	07:28	10 nTu			10.00

Rite in the Rain

F. 12/11/15

AMC Dalton, GA

Cal

Parameter	Buffer	Time	Temp.	Init. Reading	Final Reading
DO		0710	19.40°C	9.68	9.27
		use 07:15	Chart @ 19°C	9.26	
pH	7.00 std	19:11	19.12	7.04	7.00
	Buffer Lot# C470239 Exp 5/2016 ATI, Inst, Read				
	4.00	07:17	19.17	3.99	4.00
	Buffer Lot# C3580642 Exp 4/2016 ATI Inst Read				
Cond	4.49	0720	18.97°C	5.072	4.54 ms/cm
	Buffer Lot# C3580642 E 4/2016 ATI Inst Read				
ORP	228	07:25	18.94	221.6	228.0
Turb.	0.0 NTU	07:05		0.01	0.00
	1.0 NTU	07:26		1.08	0.99
	10. NTU	07:28		10.21	9.99

Mon Dalton, GA AMC

12/14/15

Cal YSI 556 SN07F101774

Air Cal DO

Parameter	Buffer	Time	Temp	Init Reading	Final Reading
DO	Air-Chart	0840	19.66	10.13	9.26
pH 7.0	7.00	0848	19.65	7.01	7.00
Cal Lot# C470239 Exp 5/2016 ATI Init Read					
4.0	4.00		19.42	4.03	4.00
Lot# C3580642 Exp 4/2016 ATI Init Read					
Cond.	4.49 ms/cm			4.998	4.550
Lot# C3580642 Exp 4/2016 ATI Init Read					
ORP	228 mv	09:02	18.84°C	226.7	228.0 mv
Lot# C361782 Exp 5/2016 ATI Init Read					
LaMotte 2020e Reader SN-ME 14316					
Turb	0.0			0.01	
	1.0 NTU			1.02	
	10.0 NTU			10.10	

Rite in the Rain

T 12/15/15

Dalton, GA AMC

Cal. YSI 556 SN 07F101774

Parameter	Buffer	Time	Temp	Init Reading	Final Reading
			chart @17°		
DO	Air	07:07	17.5°C	10.68	9.50
	Chart @ 17°C 9.65				
pH	7.00	07:12	17.21°C	7.03	7.01
	Lot # C470239 Exp. 5/2016				
	4.00	07:18	18.11	3.95	4.00
	Lot # C3580642 Exp 4/2016				
Cond	4.49 mS/cm	07:20	17.45	5.238	4.550 mS/cm
	Lot # C3580642 Exp 4/2016				
ORP	228 mV	07:26	17.09	231.8	228.0
	Lot # C361782 Exp 5/2016				

Turb.		Readings
LaMotte 2020e SN 14316		
	0.0 NTU	0.03 NTU
	1.0 NTU	1.09
	10.0 NTU	10.6

W 12/16/15 Dalton, GA AMC

Cal log

YSI 556 SN 07F101774

LaMotte 2020e SN-ME14316

Parameter	Buffer	Time	Temp	Init Reading	Final Reading
DO	Air	06:45	17.40	9.50	9.65
	Chart @ 17.0°C 9.65				
pH	7.00	0650	17.50	6.96	7.00
	Buffer Lot # C470239 / Exp 5/2016			Atl. Instr. Readal	
	4.00	06:53	16.94	4.03	4.00
	Buffer Lot # C3580642 / Exp 4/2016			Atl Instr. Readal	
Cond	4.49 mS/cm	06:57		5.459	4.591
	Buffer Lot # C3580642 / Exp 4/2016			Atl Instr. Readal	
ORP		07:02	15.16	231.8	228.0
	Buffer Lot # C361782 / Exp 5/2016			Atl Instr. Readal	

Turbidity	LaMotte 2020e		
@	0.0 NTU	06:54	0.00
	1.0 NTU	06:59	1.04
	10.0 NTU		11.4 NTU

Rite in the Rain

December 9, 2015

0800 McKinney onsite
weather: partly cloudy, upper 30s
anticipated activities: clear utilities & begin installing MW24
0800 Jeff DeHart (GPRS) onsite to clear utilities.
0830 DeHart tried to find OBG-W7- not able to locate well.
0845 DeHart offsite
0900 McKinney offsite to pick up fire hydrant meter & supplies
1030 McKinney onsite. Begin to search for OBG-W7 w/ metal detector.
1050 well successfully located, begin to try to fish pump out of well DMW-8/DRW-2.
1245 Cascade Drilling onsite (Jim Hall Jr, Jim Hall Senior, JC) begin to unload/stage equipment.
1400 Begin to advance MW24
1745 Cascade & McKinney offsite

12/9/15

December 10, 2015

0750 McKinney onsite, Cascade onsite
weather: partly cloudy, low 40s
anticipated activities: finish MW24 and develop well
0800 H&S meeting
0810 water level in MW24, 34.40 BGS
TD 59'
0815 call K. Rivera who agrees well to be set @ current depth
0820 Cascade begins to set well
0845 start to abandon DMW-8/DRW-2
Add bentonite to screen zone
8 bags (50# ea) bentonite hole plug, 1/4 bag (65#) Ben seal grouted to surface
1300 Cascade finishing well completion for MW24
1330 Cascade offsite
1435 w/L MW24 = 39.32
Pump not set up correctly, can't develop well
1610 McKinney offsite

Rite in the Rain.

December 11, 2015

0940 McKenney onsite after picking up equipment

weather: cloudy, intermittent rain/mist, upper 60s

anticipated activities: develop & sample MW-24 & sample MW 23

0945 Calibrate YSI 556 MPS # 11C100915 specific conductance reads low (3.28 MS/cm vs. 4.4 std) all others ok.

0950 MW24 w/l = 39.58' BTOC
TD = 61.45' BTOC
61.45 - 39.58 = 21.87 x 0.163 =
one well volume = 3.6 gallons

1050 Began developing MW 24

1145 2 gallons developed, w/l = 47.70'

1300 5 gallons developed, w/l = 51.10'

1500 move to MW 23 after 16 gal cleanup

1505 Collect MW-23 sample from passive diffusion bag

1545 Pump issues, could not sample MW23, move to staging area to deliver sample to courier, police site

1720 McKenney off site

December 14, 2015

0858 McKenney on site
weather raining, upper 60s
anticipated activities: develop MW-24 & redevelop MW-23

1020 Develop 10 gallons from MW-24 - water turbid (total 20 gal developed)
Draw down to ~1' of water

1100 Begin redeveloping MW-23

1210 Developed 20 gallons, turbidity reducing

1235 Continue developing MW-24

1250 7 gallons developed, well drawn down to 2' of water

1400 Total 30 gallons developed from MW-24

1440 Finish MW-23 redevelopment

1435 Develop 10 more gallons (total 30 gal today). Turbidity reduced

1500 McKenney off site

Rite in the Rain

APPENDIX C

WELL RECEPTOR DOCUMENTATION

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January 17, 2014

Ms. Madeleine Kellam
Georgia Environmental Protection Division
Land Protection Branch – Response and Remediation
2 Martin Luther King Jr. Drive, SE
Suite 1054
East Floyd Tower
Atlanta, Georgia 30334-9000

Re: Transmittal of Georgia Brownfields Eligibility Form and Supporting Documents.

Dear Ms. Kellam:

On behalf of Cargill Incorporated, EnSafe Inc. would like to present for your consideration a Georgia Brownfields Eligibility Form and the required supporting documents for two adjacent properties. One is located at 206, 208 and 216 Brookhollow Industrial Boulevard, and the other at 292 Focus Road in Dalton, Georgia. The contents of this package are as follows:

- One (1) signed copy of the Georgia Brownfields Eligibility Form.
- Application fee payable to Georgia Department of Natural Resources.
- One (1) copy of the warranty deed for each property.
- One (1) copy of the tax plat showing both properties.
- Two (2) paper copies and two (2) compact disks in a searchable portable document format of the Prospective Purchaser Compliance Status Report.

The contact for this site is:

Chris Foster
Cargill Industrial Specialties BU EHS Manager
Cargill, Incorporated
12201 South Torrence Avenue
Chicago, IL 60617
chris_foster@cargill.com
Office: 773-933-2575, Cell: 901-634-3976

Sincerely,



David Fuehrer, Senior Scientist, C.P.G
EnSafe Inc.

Cc: Chris Foster; Cargill, Inc.

GEORGIA BROWNFIELDS ELIGIBILITY FORM

☒	CLOSING DATE FOR REAL ESTATE TRANSACTION (provide date, if known) 2/14/2013 -- projected
☒	A **$3,000 APPLICATION FEE** IN THE FORM OF A CHECK PAYABLE TO THE GEORGIA DEPARTMENT OF NATURAL RESOURCES
☒	A COPY OF THE **WARRANTY DEED** FOR THE SUBJECT PROPERTY, OR, IF NOT AVAILABLE, OTHER DOCUMENTS GIVING THE PROPERTY'S LEGAL DESCRIPTION AND/OR A COPY OF A **TAX PLAT** OR OTHER FIGURE SHOWING PROPERTY BOUNDARIES
☒	**TWO (2) PAPER COPIES AND TWO (2) COMPACT DISC (CD) COPIES** OF THE PROSPECTIVE PURCHASER COMPLIANCE STATUS REPORT (PPCSR) OR PROSPECTIVE PURCHASER CORRECTIVE ACTION PLAN (PPCAP) IN A SEARCHABLE PORTABLE DOCUMENT FORMAT (PDF)

PROSPECTIVE PURCHASER INFORMATION

NAME	Kurtis Miller	TITLE	Cargill Industrial Specialties Business Unit Leader
COMPANY *(if applicable)*	Cargill, Incorporated		
ADDRESS	9320 Excelsior Blvd Hopkins, MN 55343		
PHONE	952-984-9116	FAX	952-984-9199
E-MAIL	kurtis_miller@cargill.com		

TECHNICAL CONTACT PERSON (CONSULTANT, CONTRACTOR, ETC.)

NAME	Christopher J. Foster	TITLE	Cargill Industrial Specialties EHS Manager
COMPANY	Cargill, Incorporated		
ADDRESS	12201 South Torrence Ave Chicago, IL 60617		
PHONE	901-634-3976	FAX	952-367-0618
E-MAIL	chris_foster@cargill.com		

ADDITIONAL CONTACT PERSON

NAME	Robert Neumann	TITLE	Cargill Industrial Specialties Global Ops Manager
COMPANY	Cargill, Incorporated		
ADDRESS	9320 Excelsior Blvd Hopkins, MN 55343		
PHONE	952-984-9156	FAX	952-984-9199
E-MAIL	Robert_neumann@cargill.com		

PROPERTY INFORMATION

PROPERTY STREET ADDRESS	206, 208 and 216 Brookhollow Industrial Bvld and 292 Focus Rd.				
CITY	Dalton	COUNTY	Whitfield	ZIP CODE	30721
TAX PARCEL NUMBER(s)	13-026-01-005, 13-026-09-000, 13-026-17-000 and 13-026-01-011	PROPERTY NAME *(if applicable)*			
SIZE IN ACRES	16.8	LATITUDE	34 42 35	LONGITUDE	-84 57 30

PLEASE CHECK **ALL** OF THE FOLLOWING THAT APPLY:

☐ Underground Storage Tanks
- ☐ Currently on Site *(includes tanks that were closed in place)*
- ☐ Removed *Provide date of "No further action" letter* _____

☐ Landfills or buried debris (past or present)

☒ HSRA Release Notification *Provide date Notification was filed* December 2, 2013

- ☐ Date of Non-listing letter *(if applicable),* _____

OR

- ☐ Listing Date _____ and HSI Site Number _____

PROSPECTIVE PURCHASER AND PROPERTY QUALIFYING CRITERIA

Prospective Purchaser

I am not a person who has contributed or is contributing to a release at the property, or a relative by blood within the third degree of consanguinity or by marriage, an employee, shareholder, officer, or agent; or otherwise affiliated with the current owner of the property or any person who has contributed to a release at the property.

The purchasing corporation or other legal entity, is not a current or former subsidiary, division, parent company, or partner; or employer or former employer; or otherwise affiliated with the current owner of the property or any person who has contributed to a release at the property.

I certify that I am not in violation of any order, judgment, statute, rule, or regulation subject to the enforcement of the Director

Property

This property has a pre-existing release.

This property is not listed on the National Priorities List pursuant to the federal Comprehensive Environmental Response, Compensation, and Liability Act.

This property is not currently undergoing response activities as required by an order of the federal Environmental Protection Agency.

This property is not a hazardous waste facility as defined by Georgia Code Section 12-8-62.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kurtis E Miller	Kurtis E Miller	11/15/14
Prospective Purchaser's Name *(Print)*	Prospective Purchaser's Signature	Date

Brookhollow

BOOK 3372 PAGE 037

FILED & RECORDED

TIME: 2:40

DATE: 12-29-2000

DEED BOOK: 3372

PAGE: 037-038

BETTY NELSON, C.S.C.
WHITFIELD COUNTY, GA

2:40
29 DEC

[Space above this line for recording data.]

After Recording Return to:
John T. Minor, IV
Minor, Bell & Neal
P.O. Box 2586
Dalton, GA 30722-2586

WARRANTY DEED

Georgia, Whitfield County

THIS INDENTURE made this 29th day of December, 2000, between **Charles D. Cofield and Bernita P. Cofield**, Grantor, and **Cofield Family, LLLP,** A Georgia Limited Partnership, Grantee.

The words "Grantee" and "Grantor" whenever used herein shall include all individuals, corporations and any other persons or entities, and all the respective heirs, executors, administrators, legal representatives, successors and assigns of the parties hereto, and all those holding under either of them, and the pronouns used herein shall include, when appropriate, either gender and both singular and plural, and the grammatical construction of sentences shall conform thereto. If more than one party shall execute this deed each Grantor shall always be jointly and severally liable for the performance of every promise and agreement made herein.

WITNESSETH: That the GRANTOR, for and in consideration of the sum of TEN DOLLARS AND OTHER VALUABLE CONSIDERATIONS, in hand paid at or before the sealing and delivery of these presents, the receipt of which is hereby acknowledged, has bargained and sold, and by these presents does grant, bargain, sell and convey unto the said GRANTEE the following described property, to wit:

A tract of land lying and being in Land Lot 26 of the 13th District and 3rd Section of Whitfield County, Georgia, more particularly described as per plat by Martin Smith, Jr., Georgia Registered Land Surveyor No. 2649, dated May 11, 2000, as follows:

BEGIN at the intersection of the south right of way of Brook Hollow Industrial Boulevard (50' R/W) with the west right of way of Focus Drive (30' R/W); go thence along the westerly and northerly right of way of Focus Drive the following courses and distances: south 18 degrees 07 minutes 30 seconds west, 104.42 feet; south 29 degrees 49 minutes 29 seconds west, 133.60 feet; south 31 degrees 34 minutes 47 seconds west, 123.71 feet; south 31 degrees 34 minutes 47 seconds west, 48.97 feet; south 30 degrees 01 minute 58 seconds west, 273.73 feet; south 39 degrees 55 minutes 59 seconds west, 47.92 feet; south 71 degrees 15 minutes 45 seconds west, 49.75 feet; south 73 degrees 50 minutes 14 seconds west, 129.94 feet; and south 72 degrees 29 minutes 39 seconds west, 117.86 feet to an iron pin set on a fence line; thence along a fence line north 00 degrees 45 minutes 11 seconds west 379.62 feet to an iron pin found; thence continuing along a fence line north 87 degrees 13 minutes 00 seconds east 11.84 feet to an iron pin found; thence along a fence line north

01 degree 26 minutes 54 seconds west 308.20 feet to an iron pin set on the south right of way of Brook Hollow Industrial Boulevard; thence along said right of way north 86 degrees 51 minutes 07 seconds east 282.06 feet to an iron pin found; thence continuing along said right of way north 86 degrees 51 minutes 07 seconds east 361.20 feet to point of beginning.

TO HAVE AND TO HOLD the said tract of land, with all and singular the rights, members and appurtenances thereof, to the same being, belonging, or in any wise appertaining, to the only proper use, benefit and behoof of the said GRANTEE forever, in Fee Simple. The said GRANTOR will warrant and forever defend the right and title to the above-described property unto the said GRANTEE against the lawful claims of all persons.

IN WITNESS WHEREOF, this deed has been duly executed and sealed by Grantor the day and year first above written.

Signed, Sealed and delivered
in the presence of:

Bernita P. Cofield (Seal)
Bernita P. Cofield

(Seal)
Charles D. Cofield

Unofficial Witness

Notary Public (Please affix seal)
My commission expires:

RHONDA B. LONG
Notary Public - State of Georgia
Whitfield County
My Commission Expires Dec. 7, 2004

CONSENTED TO BY SUN TRUST BANK,
which consent shall be granted for the sole purpose of consenting to the transfer of the title to the real estate and not to release Charles D. Cofield or Bernita P. Cofield from liability:

Signed, Sealed and delivered in the presence of:

SunTrust Bank

Unofficial Witness

Notary Public (Please affix seal)
My commission expires:

OFFICIAL SEAL
JOHN T. MINOR IV
NOTARY PUBLIC, GEORGIA
WHITFIELD COUNTY
MY COMMISSION EXPIRES
SEPT. 8, 2001

By: _____
Robert L. Dolan, Executive Vice President

Focus

Deed Doc: WD
Recorded 12/31/2012 03:21PM
Georgia Transfer Tax Paid : $0.00
MELICA KENDRICK
Clerk Superior Court, WHITFIELD County, Ga.
Bk **05829** Pg **0235-0237**

PT 3665

[Space above this line for recording data.]

Please Record and Return To:

John T. Minor, IV
Minor, Bell and Neal
P.O. Box 2586
Dalton, GA 30722-2586

WARRANTY DEED

Georgia, Whitfield County

THIS INDENTURE made this 24th day of December, 2012, between **Charles D. Cofield**, Grantor, and **Bernita P. Cofield, as trustee of the Irrevocable Trust Agreement of Charles D. Cofield for the Primary Benefit of Bernita P. Cofield, u/a dated December 21, 2012**, Grantee.

The words "Grantor" and "Grantee" whenever used herein shall include all individuals, corporations and any other persons or entities, and all the respective heirs, executors, administrators, legal representatives, successors and assigns of the parties hereto, and all those holding under either of them, and the pronouns used herein shall include, when appropriate, either gender and both singular and plural, and the grammatical construction of sentences shall conform thereto. If more than one party shall execute this deed each Grantor shall always be jointly and severally liable for the performance of every promise and agreement made herein.

THE GRANTOR, for and in consideration of the sum of ten dollars and other valuable considerations, in hand paid at or before the sealing and delivery of these presents, the receipt of which is hereby acknowledged, has bargained and sold, and by these presents does grant, bargain, sell and convey unto the said Grantee all that tract or parcel of land as more particularly described in Exhibit "A" attached hereto, reference to which is hereby made and incorporated herein by reference.

THIS CONVEYANCE is made subject to all zoning ordinances, easements, and restrictions of record insofar as the same may lawfully affect the above-described property.

GRANTOR AND GRANTEE acknowledge that this deed was prepared from information furnished by them. No title examination has been made, and Minor, Bell & Neal, P.C. shall have no liability for the status of title to the property or for the accuracy of such information.

TO HAVE AND TO HOLD the said tract of land, with all and singular the rights, members and appurtenances thereof, to the same being, belonging, or in any wise appertaining, to the only proper use, benefit and behoof of the said Grantee forever, in Fee Simple. The said Grantor will warrant and forever defend the right and title to the above-described property unto the said Grantee against the lawful claims of all persons.

IN WITNESS WHEREOF, this deed has been duly executed and sealed by Grantor the day and year first above written.

Signed, sealed and delivered
In the presence of:

Unofficial Witness

Notary Public

My commission expires: 12/25/2016

[Notarial Seal]

(Seal)
Charles D. Cofield

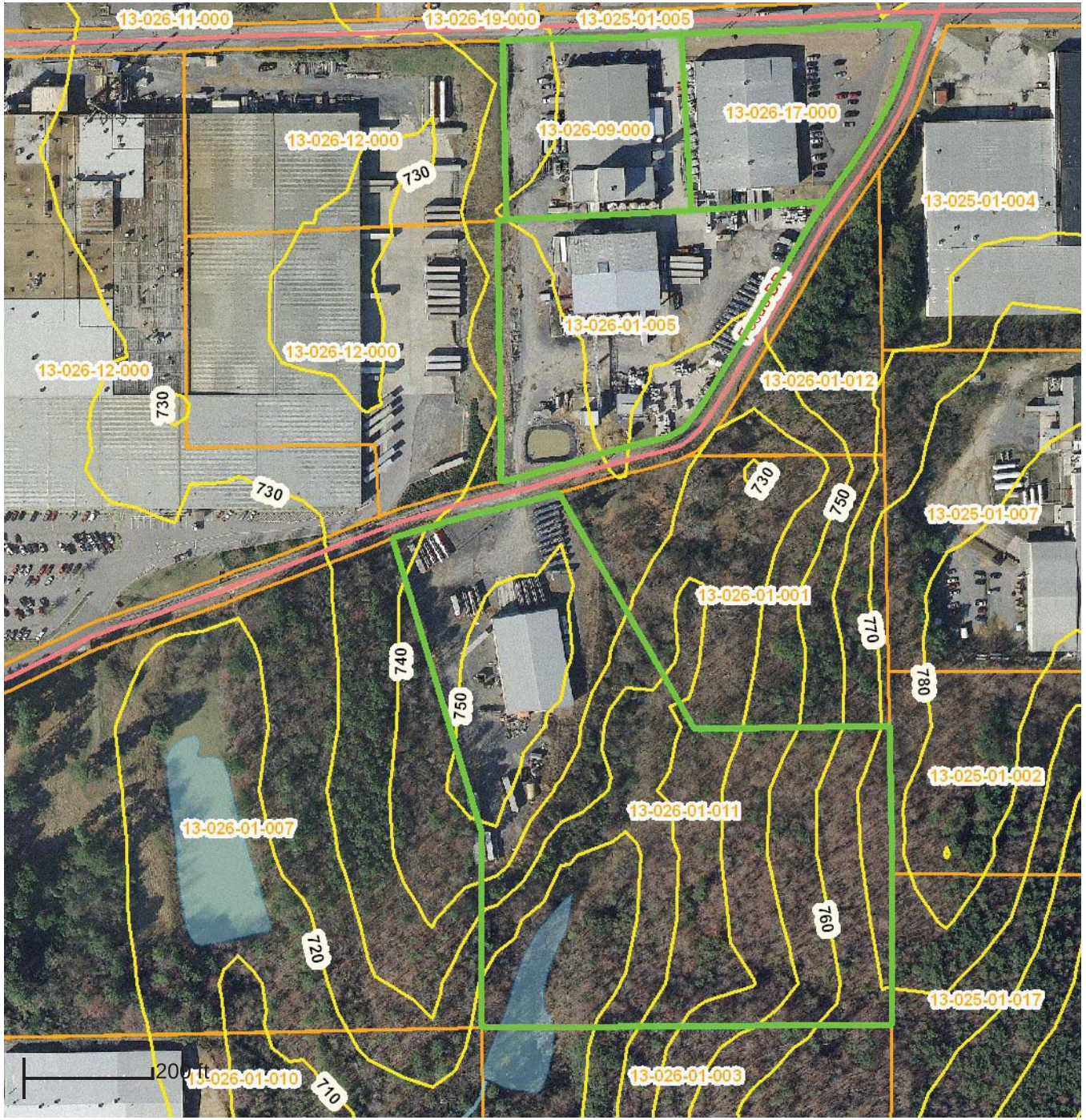
EXHIBIT "A"

All that tract or parcel of land lying and being in Land Lot No. 26 in the 13th District and 3rd Section of Whitfield County, Georgia, and being Tract No. 8 as shown on a plat of the property of Roy Johnson, of record in Plat Book 12 Page 45 (Plat Cabinet A Slide 350), Whitfield County, Georgia Land Records, and described as follows:

Beginning at a point on the southerly side of Shoemaker Road 783.82 feet eastwardly along the southerly side of Shoemaker Road from the southeast corner of the intersection of Shoemaker Road and Lakeland Road; thence north 72 degrees 29 minutes east along the southerly side of Shoemaker Road 286.75 feet; thence south 29 degrees 55 minutes east 445.96 feet; thence north 89 degrees 19 minutes east 306.4 feet to the east line of said Land Lot No. 26; thence south 00 degrees 41 minutes east along the east line of said land lot, 438.88 feet; thence south 88 degrees 00 minutes west 657 feet; thence north 02 degrees 00 minutes west 300 feet; thence north 16 degrees 55 minutes west 478.58 feet to the point of beginning.

For prior title see Deed Book 3651 Page 166, Whitfield County, Georgia Land Records.

Whitfield County GIS



Selected Parcels Feature	
Parcel Number	13-026-01-011
Zoning	Dalton General Industrial District (M-2)
Zoning Description	
Subdivision Name	
Street Extension	
Area as Drawn	410132.63770623
House Number	0
Street Direction	
Street Type	DR
Street Name	FOCUS
Unit	
Legal Description	9.70AC R D HIGGINS JR
Tax District	04
Assessed Acres	9.70
Owner Name	COFIELD BERNITA P AS TRUSTEE
Owner Address	P O BOX 3726
Owner City	DALTON
Owner State	GA
Owner Zip	30719
Residential Improvement	
Commercial Improvement	375111
Accessory Improvement	

PROSPECTIVE PURCHASER CORRECTIVE ACTION PLAN

206, 208, & 216 BROOKHOLLOW INDUSTRIAL BOULEVARD SE & 292 FOCUS DRIVE
DALTON, GEORGIA 30721

EnSafe Project Number:
0888813843

Prepared for:
Cargill, Incorporated
15407 McGinty Rd. West
Wayzata, Minnesota 55391

Prepared by

EnSafe Inc.
5724 Summer Trees Drive
Memphis, Tennessee 38134
(901) 372-7962
(800) 588-7962
www.ensafe.com

January 29, 2014

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1.0 INTRODUCTION AND QUALIFICATION OF PROPERTY AND PURCHASER

1.1 Introduction

This Prospective Purchaser Corrective Action Plan (PPCAP) was prepared for the property located at 206, 208, and 216 Brookhollow Industrial Boulevard SE and 292 Focus Drive in Dalton, Whitfield County, Georgia (Property) by EnSafe Inc. on behalf of the prospective purchaser, Cargill, Incorporated (Cargill). The Property consists of 16.8 acres and includes two operating businesses on four parcels, as summarized in the table below.

Parcel Information

Parcel Number	Address	Name
Production Area (7.1 Acres North and West of Focus Drive)		
13-026-01-005	206 Brookhollow Industrial Boulevard	South Plant
13-026-09-000	208 Brookhollow Industrial Boulevard	North Plant
13-026-17-000	216 Brookhollow Industrial Boulevard	216 Building
Warehouse and Undeveloped Area (9.7 Acres South of Focus Drive)		
13-026-01-011	292 Focus Drive	Finished Goods Warehouse

A Hazardous Sites Response Program (HSRP) Release Notification was submitted to the Georgia Environmental Protection Division (EPD) by the current owner of a portion of the Property on December 2, 2013. This PPCAP and its supporting documentation are being submitted to the EPD in support of an application for a limitation of liability under the Georgia Hazardous Site Reuse and Redevelopment Act.

A portion of the Property is currently owned by Cofield Family, LLLP (Parcels 13-026-01-005, 13-026-09-000, and 13-026-17-000) and the remaining parcel (Parcel 13-26-01-011) is owned by Charles and Bernita Cofield, individually and Bernita Cofield, as Trustee of the Charles D. Cofield Trust ("Property Owners"). Cargill has entered into an Asset Purchase and Sale Agreement to purchase the Property. The closing of that purchase is scheduled for February 2014. In connection with its purchase of the Property, Cargill and the owners have conducted certain soil and groundwater sampling on the Property, the results of which are summarized or described herein.

1.2 Qualification of Property and Prospective Purchaser

The Georgia Hazardous Site Reuse and Redevelopment Act set forth certain criteria in order to qualify for the Brownfield Limitation of Liability. Both the Property and Cargill meet the Act's requirements as summarized below.

The Property:

- Has had a pre-existing release of regulated constituents
- Does not have liens filed under subsection (e) of Code Section 12-8-96 against it
- Is not listed on the Federal National Priority List
- Is not undergoing response activities by an order of the United States Environmental Protection Agency
- Is not a hazardous waste facility as defined in Code Section 12-8-62

The Purchaser, Cargill:

- Is not a person who has contributed or is contributing to a release at the Property pursuant to Code Sections 12-8-92(9) and 12-8-92(7)
- Is not related to, or otherwise affiliated with, the current owner of the Property or any person who has contributed to or is contributing to a release at the Property, pursuant to Code Section 12-8-92(7)
- Has not found evidence of liens filed under subsection (e) of Code Section 12-8-96 against the Property
- Is not in violation of any order, judgment, statute, rule or regulation subject to the enforcement authority of the Director

2.0 BACKGROUND

2.1 Property Location and Description

The Property comprises four parcels totaling 16.8 acres generally addressed as 206, 208, and 216 Brookhollow Industrial Boulevard SE and 292 Focus Drive in Dalton, Whitfield County, Georgia. The Property consists of parcels 13-026-01-005, 13-026-09-000, 13-026-17-000 (production area parcels addressed as 206, 208, and 216 Brookhollow Industrial Boulevard SE, respectively), and 13-026-01-011 (warehouse area parcel addressed as 292 Focus Drive). A legal description is provided in Appendix A. The location of the Property is shown on Figure 1.

The Property is in an industrial area, approximately 3 miles south of downtown Dalton. The Property includes two operating businesses on four parcels, as shown on Figure 2. The Property includes the 7.1-acre production area consisting of three parcels on which surfactants are blended and resins manufactured in reactor vessels; the production area includes three buildings, aboveground storage tanks (ASTs), three warehouses, two mixing areas, two reactor areas, and two laboratories. The 9.7-acre warehouse area is to the south and includes a warehouse building, areas for parking trailers, and an undeveloped wooded area with a ravine and surface water pond. The site and building layout are shown on Figure 3.

The production area parcels are bordered to the north by Brookhollow Industrial Boulevard, beyond which are two parcels occupied by Sanco, which blends solid materials to create latex filler material. East of the production area parcels is Focus Drive with a vacant building to the north and an undeveloped parcel to the south. East of the Finished Goods Warehouse parcel are two undeveloped parcels. South of the Finished Goods Warehouse is an undeveloped parcel. West of the Finished Goods Warehouse is a parcel that reportedly is being developed by Shaw Industries as an out-patient medical center. West of the production area parcels is Shaw's Plant 23, which colors carpeting.

The subject Property was originally developed in the late 1970s to early 1980s for manufacture of carpet displays. Subsequently, the Property was developed in the late 1980s to manufacture surfactants for the carpet industry and to manufacture resins for use as coatings and additives in the oil and gas industry. Adjoining properties have a history of manufacturing, distribution, and/or repackaging that involve the use and storage of bulk quantities of hazardous substances and petroleum products; generating hazardous waste and used oil; and have reported releases to soil and/or groundwater.

2.2 Property History

208 Brookhollow Industrial Boulevard — North Plant

The original brick building was likely constructed in the early 1980s. Research indicates past occupants as Clayton Carpet (unknown activity); Encore Samples (manufacturer of cards, books, and carpet samples); American Emulsions (for storage of materials used at offsite locations for stone-washing blue jeans); American Emulsions and their subsidiary, U.S. Polymerics (manufacture of surfactants at the North Plant property); Star Technologies (water treatment equipment service); C&A Technologies (pallet and skid manufacturer); and Isotet Chemical (retail chemicals).

The North Plant includes an approximate 26,000-square-foot office and manufacturing building. The building includes a laboratory, drum and tote storage inside the building (North Plant warehouse), chemical storage in ASTs outside of the building, and a chemical mixing, reacting, and packaging area (North Plant). The current operator mixes chemicals to form surfactants and reacts chemicals to form curing agents.

216 Brookhollow Industrial Boulevard — 216 Building

The 1988 and 1993 aerial photographs show this parcel to be wooded or scrub vegetation covered. The February 1999 aerial photograph shows the parcel cleared of vegetation with several gravel or soil piles along the north edge of the parcel. The Whitfield County GIS Online database indicates that the 216 Building was constructed in 1999. Past occupants include C&A Mfg. (manufacturer) and Star Technologies (chemical retail/water treatment equipment service); and Microblen (a non-classified establishment; offices only).

The approximate 30,600-square-foot 216 Building is an office and manufacturing building that includes a laboratory, drum and tote storage inside the building, chemical storage in ASTs inside and outside of the building, and a chemical mixing and packaging area. Operations in the 216 Building involve mixing chemicals to create surface agents, surfactants, anti-foaming soaps, and lubricants for the textile industry.

206 Brookhollow Industrial Boulevard — South Plant

Aerial photographs through 1999 show the South Plant parcel to be essentially undeveloped and primarily wooded or scrub vegetation covered. The Whitfield County GIS Online database indicates that the South Plant building was constructed in 2003. According to the owner's representative, Mr. Cofield, the building was constructed for the current operator for the manufacture of resins.

City directories list the current operator (protective coating manufacturer) at 206 Brookhollow Industrial Boulevard.

The South Plant includes an approximate 15,600-square-foot warehouse and manufacturing building. The building includes a warehouse (South Plant warehouse) at the north end of the building with tank, tote, and drum storage, and a reaction and packaging area (South Plant). The current operator reacts chemicals to manufacture resins and curing agents. South of the South Plant is the Epichlorohydrin Storage Building, which is approximately 500 square feet and houses the epichlorohydrin AST and a flame suppression system. Southeast of the South Plant is an approximate 1,400-square-foot metal pole barn structure used to store flammable materials in totes and 55-gallon drums.

292 Focus Drive — Finished Goods Warehouse / Warehouse Area Parcel

Aerial photographs show the 292 Focus Drive site to be essentially undeveloped and primarily wooded through 2005. The Whitfield County GIS Online database indicates that the 292 Focus Drive warehouse building was constructed in 2006.

The warehouse area south of Focus Drive includes a single 15,000-square-foot Finished Goods Warehouse where finished materials are stored in 55-gallon drums and totes. Exterior portions of the property are utilized for storage of tanker trailers containing finished product.

Remaining areas of the warehouse area parcel are unused and wooded or are part of a pond created by a dam located immediately south of the subject property. Grassy overgrowth covers the gravel parking area east of the Focus Drive warehouse.

3.0 INVESTIGATION AND REMEDIATION

3.1 Site Investigation and Regulatory History

A Phase I/II Environmental Site Assessment was conducted on the Property in June and July 2013 by EnSafe on behalf of Cargill. Fourteen soil borings, two groundwater monitoring wells, a co-located surface water and sediment pond sample, and a water sample from the storm water retention impoundment were completed. A complete copy of the sampling results are attached as Appendix B.

Table 1 provides a sampling summary. Figures 4 and 5 show the sampling locations. Soil results are presented in Table 2; groundwater and surface water results are presented in Table 3.

Subsequently, the Property Owners' environmental consultant, United Consulting, performed additional sampling activities, resulting in their filing with EPD of a HSRP Initial Release Notification on December 2, 2013. The HSRP Initial Release Notification describes the sampling activities that have been performed at the Property and includes their evaluation and recommendation that the site should not be listed on the Hazardous Site Inventory.

3.2 Remediation History

There are no records of soil and groundwater remediation being conducted at the Property.

4.0 DESCRIPTION OF REGULATED PROPERTY

The Property tax parcel descriptions and current owner contact information are provided below. The Property legal description is provided in Appendix A.

Parcel Number	Address	Owner [verify]
13-026-01-005	206 Brookhollow Industrial Boulevard	Cofield Family, LLLP
13-026-09-000	208 Brookhollow Industrial Boulevard	Cofield Family, LLLP
13-026-17-000	216 Brookhollow Industrial Boulevard	Cofield Family, LLLP
13-026-01-011	292 Focus Drive	Charles and Bernita Cofield, individually and Bernita Cofield, as Trustee of the Charles D. Cofield Trust

Purchaser:

Cargill, Incorporated
15407 McGinty Rd. West
Wayzata, Minnesota 55391

Sellers:

Cofield Family, LLLP, Charles and Bernita Cofield, individually and Bernita Cofield, as Trustee of the Charles D. Cofield Trust
1815 South Hamilton Street
Dalton, Georgia 30720

5.0 ADDITIONAL SITE INVESTIGATION AND CORRECTIVE ACTION PLAN

After acquisition of the Property, Cargill will perform additional site characterization. Cargill will work with EPD to develop a site-specific sampling and analysis plan. Upon completion of the soil sampling, Cargill will notify EPD. At that time, a determination will be made as to whether or not additional site characterization and/or corrective action is warranted.

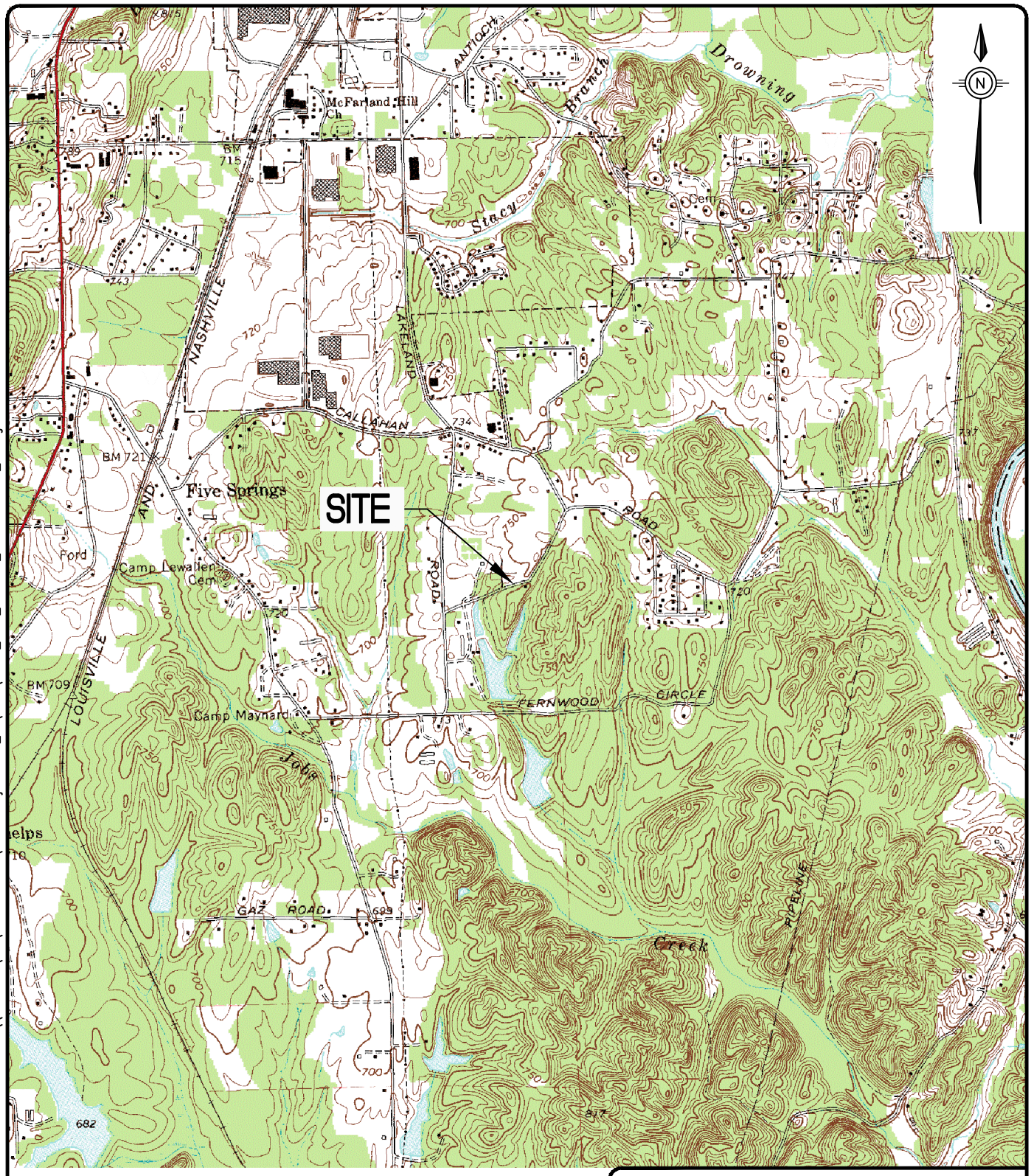
If soil or source material above non-residential Type 3 or Type 4 risk reduction standards are detected, then an appropriate remediation technology will be chosen based on the contaminants and site conditions to bring the soil or source material into compliance. To measure the effectiveness of the remediation technology, confirmation samples will be collected at appropriate intervals. If confirmation samples are still above the appropriate risk reduction standards, then additional corrective action will be performed to remove or remediate the contaminated soils. Any soil or source material generated as part of corrective action will be managed in such a way to prevent contamination of the surrounding environment, to be in compliance with federal, state, and local laws, and to protect onsite personnel.

Investigation-derived wastes that require offsite disposal will be containerized, characterized per applicable requirements, and transported offsite in compliance with applicable state and federal laws. All work will be performed in compliance with applicable OSHA regulations and in accordance with a site-specific Health and Safety Plan.

6.0 SCHEDULE

Cargill will prepare a compliance status report upon completion of the site investigation and/or corrective action activities called for under the PPCAP. The written report will consist of information in the format required for submission to the EPD under the applicable state laws. It is presently anticipated that the investigations and/or corrective action called for in this PPCAP will be completed within two years of the approval of this PPCAP. A compliance status report will be submitted by December 2016.

Figures



0 2000 4000

SCALE IN FEET

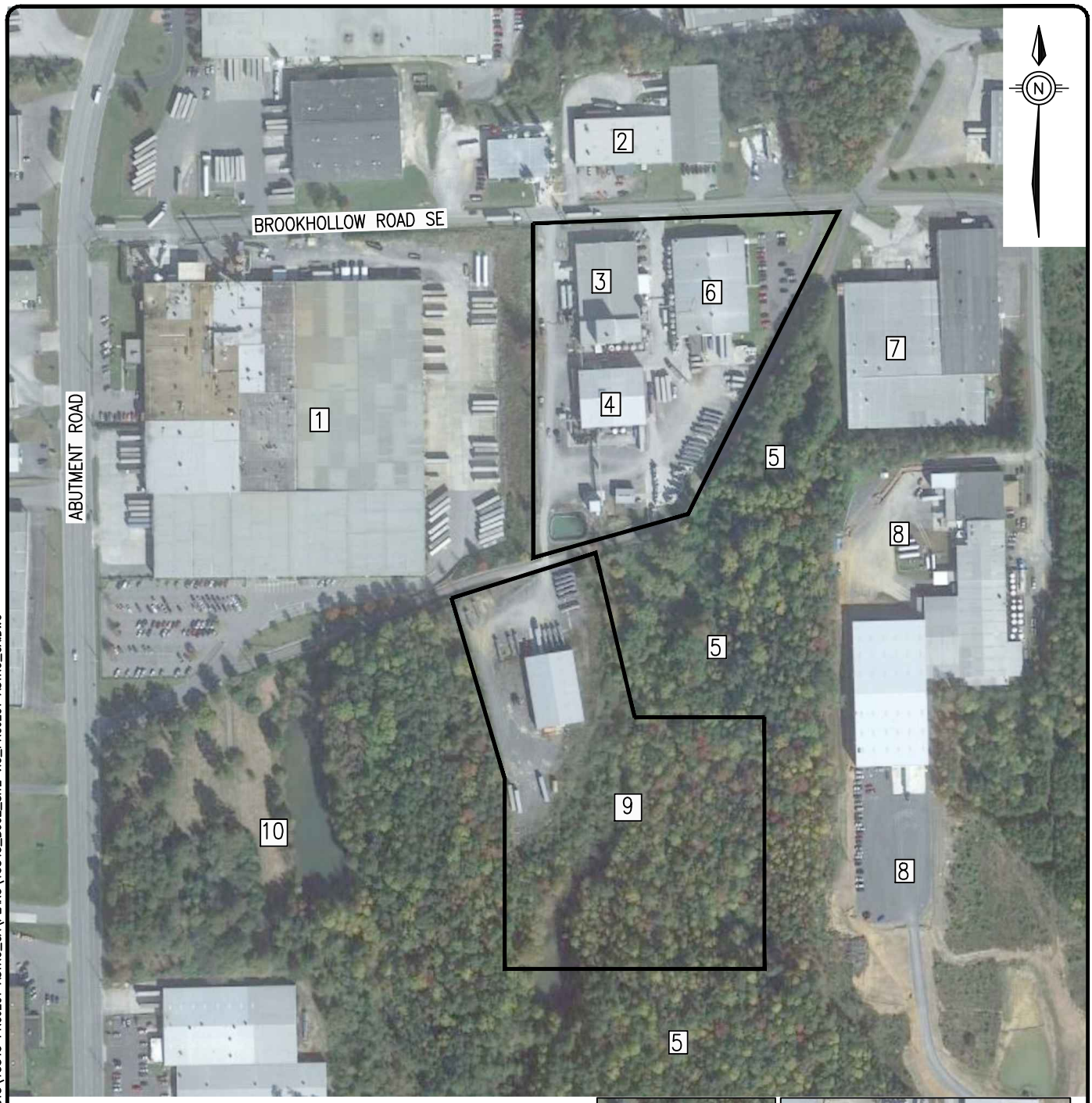
MAP SOURCE:
U.S.G.S. 7.5 MINUTE QUADRANGLE
DALTON SOUTH, GA 1972 – PHOTOINSPECTED 1982

FIGURE 1
SITE LOCATION MAP
PROJECT ASTRO
DALTON, GEORGIA

REQUESTED BY:	N.BAKER
DRAWN BY:	BRONSON
DWG DATE:	07/19/13
DWG NO:	13843_B001

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LEGEND

1 – SHAW INDUSTRIES
2 – SANCO
3 – NORTH PLANT (208 BROOKHOLLOW)
4 – SOUTH PLANT (206 BROOKHOLLOW)
5 – UNDEVELOPED
6 – 216 BUILDING (216 BROOKHOLLOW)
7 – VACANT (300 BROOKHOLLOW)
8 – AMC INTERNATIONAL
9 – FINISHED GOODS WAREHOUSE (292 FOCUS)
10 – SHAW INDUSTRIES MEDICAL FACILITY (UNDER CONSTRUCTION)

NOT TO SCALE

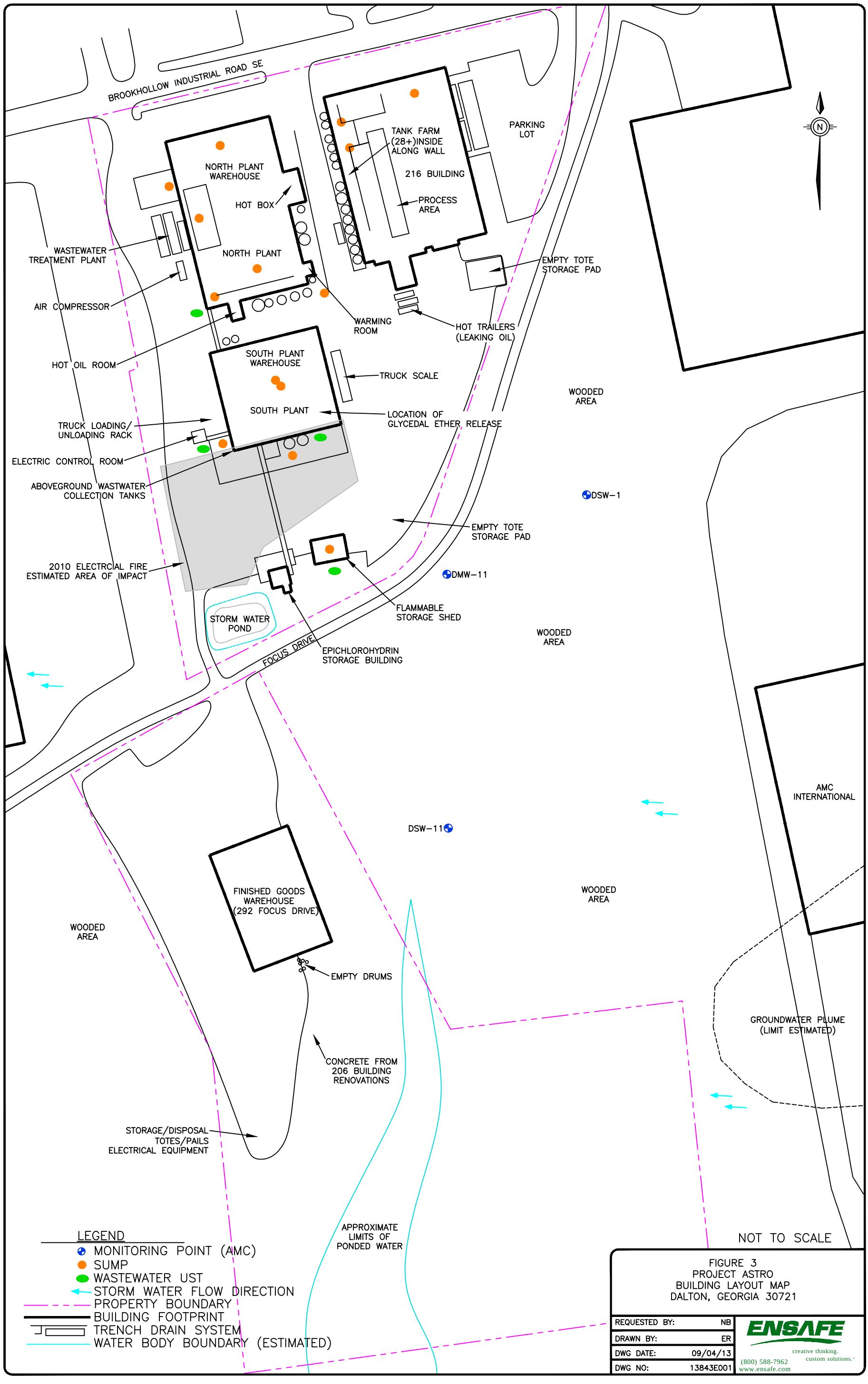
© 2013 Google ©2010 Google

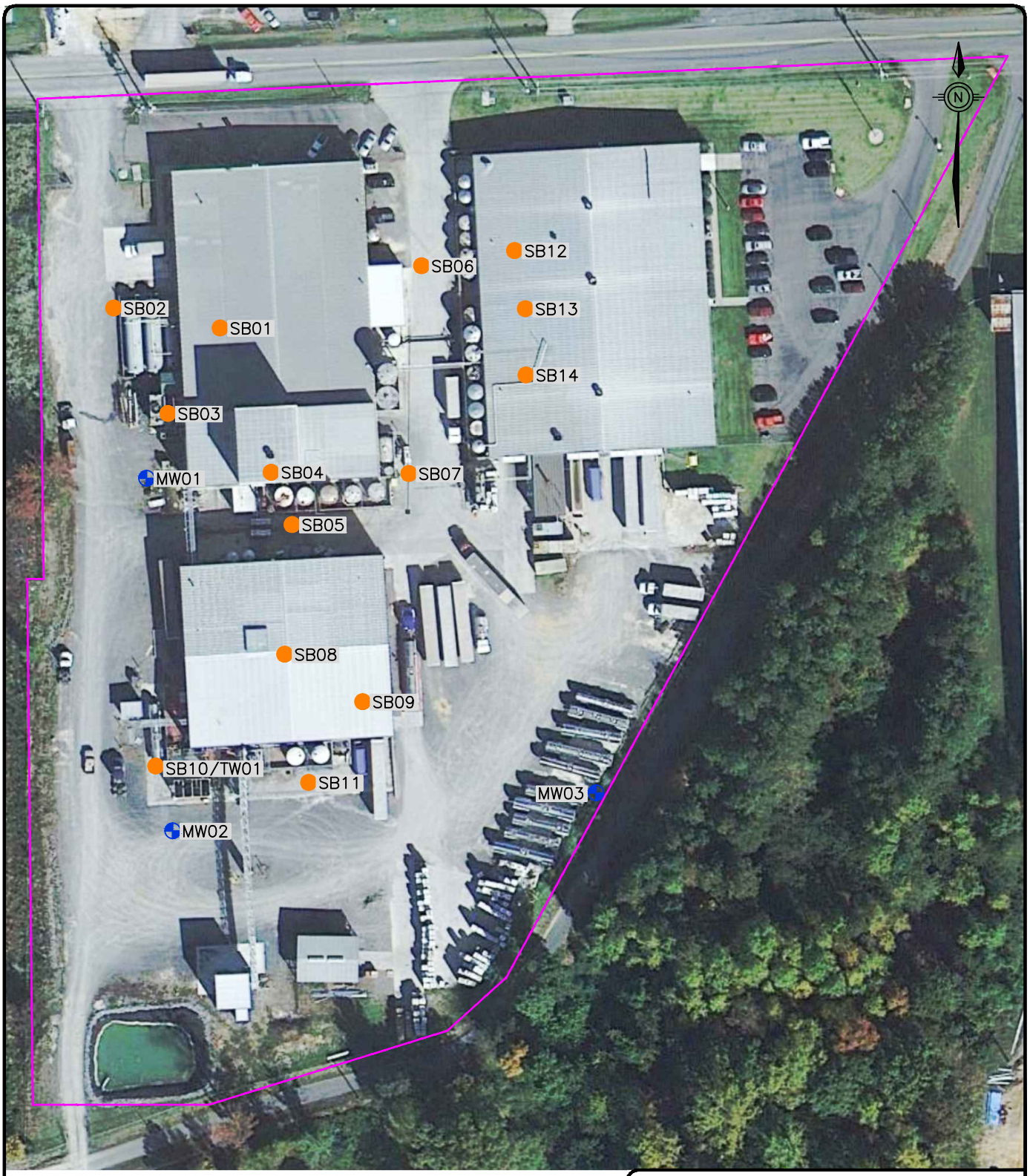
AERIAL DATE: OCTOBER 23, 2012

FIGURE 2
SITE VICINITY MAP
PROJECT ASTRO
DALTON, GEORGIA

REQUESTED BY:	N.BAKER
DRAWN BY:	BRONSON
DWG DATE:	07/30/13
DWG NO:	13843_B002

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NORTH PLANT
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AIR COMPRESSOR
HOT OIL ROOM
TANK FARM (28+)INSIDE ALONG WALL
216 BUILDING
PROCESS AREA
PARKING LOT
EMPTY TOTE STORAGE PAD
WARMING ROOM
HOT TRAILERS (LEAKING OIL)
SOUTH PLANT WAREHOUSE
SOUTH PLANT
TRUCK SCALE
LOCATION OF GLYCEDAL ETHER RELEASE
WOODED AREA
TRUCK LOADING/ UNLOADING RACK
ELECTRIC CONTROL ROOM
ABOVEGROUND WASTWATER COLLECTION TANKS
2010 ELECTRCIAL FIRE ESTIMATED AREA OF IMPACT
DSW-1
EMPTY TOTE STORAGE PAD
DMW-11
FLAMMABLE STORAGE SHED
STORM WATER POND
FOCUS DRIVE
EPICHLOROHYDRIN STORAGE BUILDING
WOODED AREA
AMC INTERNATIONAL
DSW-11
FINISHED GOODS WAREHOUSE (292 FOCUS DRIVE)
WOODED AREA
WOODED AREA
EMPTY DRUMS
GROUNDWATER PLUME (LIMIT ESTIMATED)
CONCRETE FROM 206 BUILDING RENOVATIONS
STORAGE/DISPOSAL TOTES/PAILS ELECTRICAL EQUIPMENT
APPROXIMATE LIMITS OF PONDED WATER
N
LEGEND
MONITORING POINT (AMC)
SUMP
WASTEWATER UST
STORM WATER FLOW DIRECTION
PROPERTY BOUNDARY
BUILDING FOOTPRINT
TRENCH DRAIN SYSTEM
WATER BODY BOUNDARY (ESTIMATED)
NOT TO SCALE
FIGURE 3
PROJECT ASTRO
BUILDING LAYOUT MAP
DALTON, GEORGIA 30721
REQUESTED BY: NB
DRAWN BY: ER
DWG DATE: 09/04/13
DWG NO: 13843E001
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LEGEND
- MONITORING WELL LOCATION
- SOIL BORING LOCATION
- PROPERTY BOUNDARY

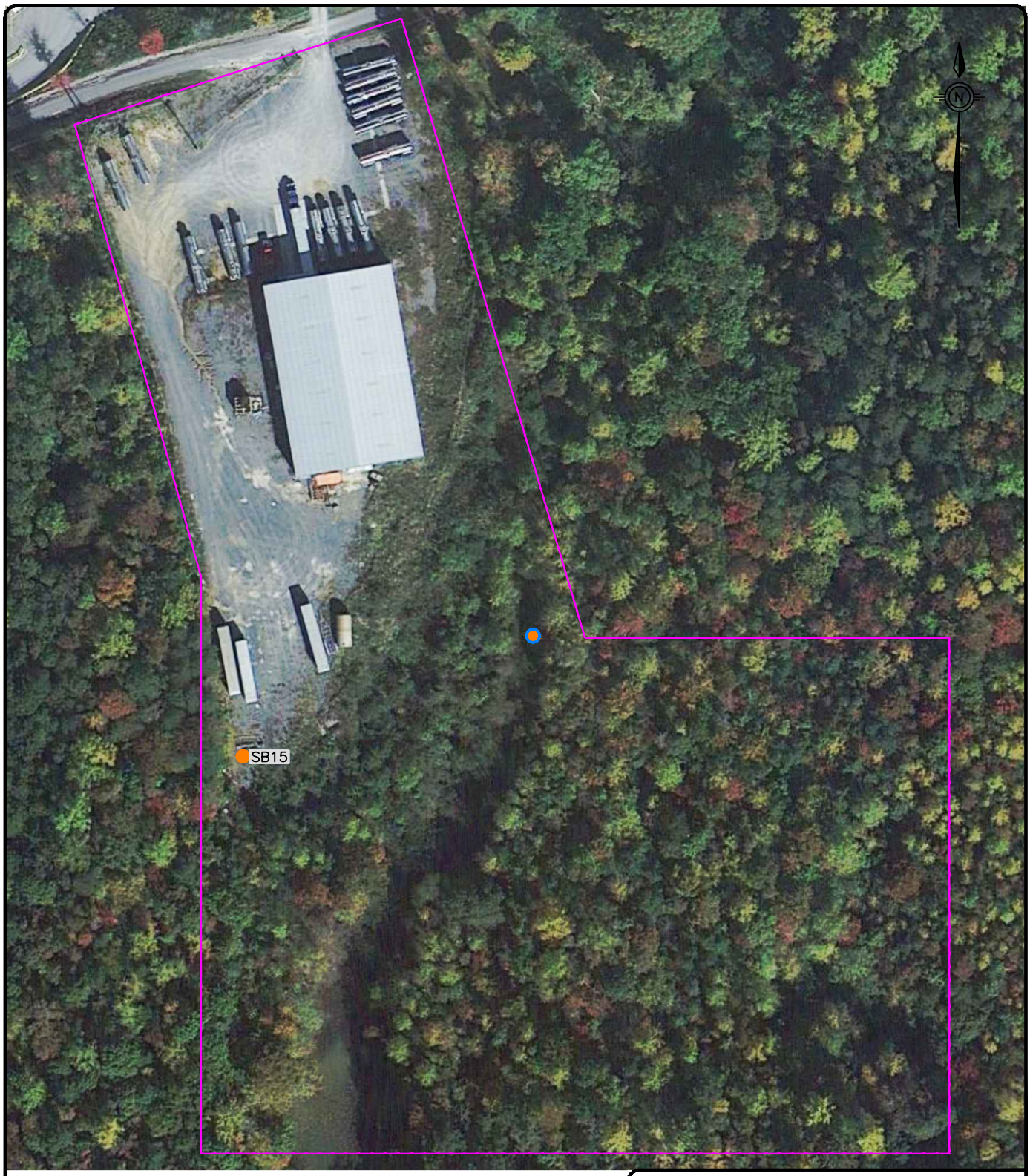
NOT TO SCALE

FIGURE 4
PROJECT ASTRO
SAMPLE LOCATION MAP
206, 208 AND 216 BROOKHOLLOW INDUSTRIAL BLVD
DALTON, GEORGIA 30721

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\\ESDATANET\CAD\CAD PROJECTS\13843 PROJECT ASTRO_GA\PLANS\13843E002 SAMPLE LOCATIONS MAP- PROJECT ASTRO - DALTONGA.DWG



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LEGEND
- SURFACE WATER AND SOIL SAMPLE LOCATION
- SOIL BORING LOCATION
- PROPERTY BOUNDARY

NOT TO SCALE

FIGURE 5
PROJECT ASTRO – WAREHOUSE AREA
SAMPLE LOCATION MAP
292 FOCUS DRIVE
DALTON, GEORGIA 30721

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\\ESDATANET\CAD\CAD PROJECTS\13843 PROJECT ASTRO_GA\PLANS\13843E003 SAMPLE LOCATIONS MAP– PROJECT ASTRO – DALTONGA.DWG

Tables

Table 1
Phase II Locations and Sampling Plan

Reference #	Site Location	Area of Concern	Proposed Action	Proposed Analytes
Soil Borings				
SB-01	North Plant Warehouse	Sump (West)	Soil Boring	TAL Metals, VOCs, SVOCs, Glycols, Ethers, Amines, Alcohols, Epichlorohydin,
SB-02	Exterior	Wastewater Treatment Plant	Soil Boring	TAL Metals, VOCs, SVOCS, Glycols, Ethers, Amines, Alcohols, Epichlorohydrin, Pesticides, Herbicides, PCBs
SB-03	Exterior	Air Compressor	Soil Boring	TAL Metals, VOCs, SVOCs, TPH
SB-04	North Plant	Concrete Floor Beneath Reactors	Soil Boring	TAL Metals, VOCs, SVOCs, Glycols, Ethers, Amines, Alcohols, Epichlorohydin
SB-05	Exterior	Between North and South Plants	Soil Boring	TAL Metals, VOCs, SVOCs, Glycols, Ethers, Amines, Alcohols, Epichlorohydin
SB-06	Exterior	Eastside of North Plant	Soil Boring	TAL Metals, VOCs, SVOCs, Glycols, Ethers, Amines, Alcohols, Epichlorohydin
SB-07	Exterior	Eastside of North Plant	Soil Boring	TAL Metals, VOCs, SVOCs, Glycols, Ethers, Amines, Alcohols, Epichlorohydin
SB-08	South Plant Warehouse	Sump	Soil Boring	TAL Metals, VOCs, SVOCs, Glycols, Ethers, Amines, Alcohols, Epichlorohydin
SB-09	South Plant	2008 Glycidyl Ether Release	Soil Boring	TAL Metals, VOCs, SVOCs, Glycols, Ethers, Amines, Alcohols, Epichlorohydin
SB-10	South Plant	Sump (Loading Rack)	Soil Boring	TAL Metals, VOCs, SVOCs, Glycols, Ethers, Amines, Alcohols, Epichlorohydin
SB-11	South Plant	Sump (South Side)	Soil Boring	TAL Metals, VOCs, SVOCs, Glycols, Ethers, Amines, Alcohols, Epichlorohydin
SB-12	Arrowstar	Sump (West)	Soil Boring	TAL Metals, VOCs, SVOCs, Glycols, Ethers, Amines, Alcohols,
SB-13	Arrowstar	Trench Drain (West Tank Farm Area)	Soil Boring	TAL Metals, VOCs, SVOCs, Glycols, Ethers, Amines, Alcohols,
SB-14	Arrowstar	Trench Drain (West Tank Farm Area)	Soil Boring	TAL Metals, VOCs, SVOCs, Glycols, Ethers, Amines, Alcohols,
SB-15	Focus Road Finished Goods Warehouse	Southwest Corner of Developed Area	Soil Boring	TAL Metals, VOCs, SVOCs, Glycols, Ethers, Amines, Alcohols, Epichlorohydin
Monitoring Wells				
MW-01	North Plant (Exterior)	Sump (West)	Monitoring Well	TAL Metals, VOCs, SVOCs, Glycols, Ethers, Amines, Alcohols, Epichlorohydin
MW-02	Exterior	2008 Glycidyl Ether Release	Monitoring Well	TAL Metals, VOCs, SVOCs, Glycols, Ethers, Amines, Alcohols, Epichlorohydin
MW-03	Exterior	Southeast Property Line - AMC International Groundwater Contamination	Monitoring Well	TAL Metals, VOCs, SVOCs, Glycols, Ethers, Amines, Alcohols, Epichlorohydin

Table 1
Phase II Locations and Sampling Plan

Reference #	Site Location	Area of Concern	Proposed Action	Proposed Analytes
Surface Water/Sediment				
SW-01	Exterior	Focus Road Pond	Suface Water Sample	TAL Metals, VOCs, SVOCs, Glycols, Ethers, Amines, Alcohols, Epichlorohydrin
SS-01	Exterior	Focus Road Pond	Sediment Sample	TAL Metals, VOCs, SVOCs, Glycols, Ethers, Amines, Alcohols, Epichlorohydrin, Pesticides, Herbicides, PCBs

Notes:

TAL Metals — Target Analyte List Metals
VOCs — Volatile Organic Compounds
SVOCs — Semivolatile Organic Compounds
PCBs — Polychlorinated Biphenyls
Other listed compounds detected under Tentatively Identified Compounds or VOCs
Perfluorooctanonic and sulfonic acids (PFOAs) analyzed for all samples

Table 2 - Soil Analytical Results

CAS No.	Analyte	GA NC	Sample Location:	MW01	SB0105	SB0301	SB0301	SB0405	SB0505	SB0605	SB0705	SB0805	SB0905	SB1005	SB1110	SB1210	SB1310	SB1410	SB1505	SED01
			Sample ID:	MW0120	SB0105	SB0301	SB0301D	SB0405	SB0505	SB0605	SB0705	SB0805	SB0905	SB1005	SB1110	SB1210	SB1310	SB1410	SB1505	SED01
			Sample Date:	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/14/2013	07/14/2013	07/14/2013	07/14/2013	07/14/2013	07/14/2013
			Sample Type:	Soil	Soil	Soil	Duplicate	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Sediment
	Percent Moisture (mg/kg)																			
9999900-31-5	Moisture			19.12	21.28	20.74	8.93	25.91	17.88	15.87	18.32	18.37	14.17	16.85	20.27	20.57	24.49	25.8	16.84	52.67
	Niosh Method (mg/kg)																			
124-40-3	Dimethylamine	1000		1.24 U	1.27 U	1.26 U	1.1 U	1.35 U	NA	NA	NA	1.23 U	1.17 U	1.2 U	1.25 U	1.26 U	1.32 U	1.35 U	1.2 U	2.11 U
	Metals (mg/kg)																			
7429-90-5	Aluminum			16000	9090	6220	5230	19600	18100	12300	18800	19800	16700	16700	20000	19300	19300	19600	17200	14200
7440-36-0	Antimony	10		0.0618 U	0.00409 J	0.0166 J	0.0104 J	0.00349 J	0.0609 U	0.0022 J	0.0612 U	0.0613 U	0.0583 U	0.0601 U	0.0627 U	0.0629 U	0.0662 U	0.0674 U	0.0601 U	0.0159 J
7440-38-2	Arsenic	41		1.64	6.15	4.09	3.57	4.27	2.03	1.53	1.59	2.54	1.55	1.65	1.36	1.84	2.77	3.23	2.12	3
7440-39-3	Barium	500		65.4	17.9	116	82.3	53.4	43.6	40.2	29.4	110	197	662	37.9	35.9	32.8	34.5	48.2	116
7440-41-7	Beryllium	3		1.62	0.391 J	0.387 J	0.332 J	1.17	1.29	0.418 J	1.36	1.34	1.11	1.23	1.32	0.498 J	1.56	1.87	1.67	1.12
7440-43-9	Cadmium	39		0.0252 J	0.0268 J	0.0353 J	0.031 J	0.0355 J	0.0175 J	0.00864 J	0.013 J	0.02 J	0.0322 J	0.0223 J	0.0118 J	0.0101 J	0.0195 J	0.0219 J	0.0206 J	0.21
7440-70-2	Calcium			223	2580	244000	210000	11200	6490	1950	1950	2380	4870	8130	1600	822	3580	3310	1560	2870
7440-47-3	Chromium	1200		12.7	19.3	11.7	9.52	17.7	26.5	12.8	20.7	28.1	28.5	28.4	22.8	20.5	18.4	17	14.8	16.7
7440-48-4	Cobalt	25		21.2	2.9	10.3	8.32	7.97	10.2	13.9	5.37	29.5	22.4	26.5	10.2	5.47	6.64	23	26.7	18
7440-50-8	Copper	1500		9.92	9.94	11.2	10.2	15.1	19.3	5.64	17.7	31.1	25.2	26.4	15.5	13.7	22.9	22.3	16.4	13.7
7439-89-6	Iron			18500	30100	12400	10400	30600	36000	18900	29800	39900	32500	35500	31200	27300	36900	38500	23600	19400
7439-92-1	Lead	400		14.5	17.1	9.51	6.4	16.1	17.5	11.3	10.3	12.7	8.58	20	13.1	8.66	14.8	14.2	8.94	34.5
7439-95-4	Magnesium			3030	683	23200	19800	1400	2170	637	1370	3660	4370	4070	977	524	855	1110	2960	1190
7439-96-5	Manganese			1060	295	425	287	329	349	248	54.7	438	450	1160	223	105	227	781	665	224
7439-98-7	Molybdenum			0.618 U	0.635 U	0.631 U	0.549 U	0.675 U	0.609 U	0.594 U	0.612 U	0.613 U	0.583 U	0.601 U	0.627 U	0.629 U	0.662 U	0.674 U	0.601 U	1.06 U
7440-02-0	Nickel	420		36.9	5.56	8.78	8.39	11.9	24.8	5.4	12.6	49.1	43.6	45.4	14	5.67	16	26.6	25.5	14.7
7440-09-7	Potassium			506	467	682	578	721	784	499	738	864	877	841	958	681	837	898	651	750
7782-49-2	Selenium	36		0.236	0.0913	0.201	0.166	0.364	0.198	0.185	0.174	0.169	0.162	0.312	0.161	0.161	0.257	0.212	0.219	0.656
7440-22-4	Silver	10		0.0186 J	0.03 J	0.0243 J	0.0212 J	0.0329 J	0.0255 J	0.023 J	0.0209 J	0.0222 J	0.0211 J	0.0269 J	0.0234 J	0.0303 J	0.0239 J	0.0231 J	0.0193 J	0.058 J
7440-23-5	Sodium			357	11.5 J	93.4	82.3	181	20 J	19.7 J	26.9 J	368	221	233	79.9	50.6 J	242	174	60.1 U	23 J
7440-28-0	Thallium	10		0.0421 J	0.099	0.0591 J	0.0508 J	0.103	0.0654	0.118	0.0883	0.0815	0.0651	0.0838	0.103	0.145	0.0875	0.0773	0.0515 J	0.166
7440-62-2	Vanadium			7.24	34.5	17.7	15	19.4	15.8	17.2	15.8	19.4	14.5	16.8	16.8	21.2	18.4	17.7	11.5	23.1
7440-66-6	Zinc	2800		102	18.7	28	24.4	27.4	38.3	14.7	32.1	82.6	71.8	70.7	41.6	21.7	32.5	45.6	59.4	60.8
	Mercury (mg/kg)																			
7439-97-6	Mercury	17		0.0247 U	0.043	0.119	0.0372	0.0515	0.0234 J	0.0387	0.0282	0.023 J	0.0156 J	0.0135 J	0.0193 J	0.217	0.0748	0.0307	0.0142 J	0.0755
	Nonhalogenated Organics (mg/kg)																			
111-46-6	Diethylene Glycol			61.8 U	63.5 U	63.1 U	54.9 U	67.5 U	NA	NA	NA	61.3 U	58.3 U	60.1 U	62.7 U	62.9 U	66.2 U	67.4 U	60.1 U	106 U
67-63-0	Isopropanol			3.58 J	10.8	5.35 U	34	7.14	NA	NA	NA	4.45 J	39.8	41	43.5	41.2	43.5	46.7	40.2	79.5
57-55-6	Propylene glycol			61.8 U	63.5 U	63.1 U	54.9 U	67.5 U	NA	NA	NA	61.3 U	58.3 U	60.1 U	62.7 U	62.9 U	66.2 U	67.4 U	60.1 U	106 U
	Organochlorine Pesticides (mg/kg)																			
72-54-8	4,4'-DDD	0.66		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00612 U
72-55-9	4,4'-DDE	0.66		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00612 U
50-29-3	4,4'-DDT	0.66		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00612 U
309-00-2	Aldrin	0.66		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00612 U
319-84-6	alpha-BHC	0.66		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00612 U
5103-71-9	alpha-Chlordane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00612 U
319-85-7	beta-BHC	0.66		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00612 U
57-74-9	Chlordane	9.2		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0612 U
319-86-8	delta-BHC	25		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00612 U
60-57-1	Dieldrin	0.66		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00612 U
959-98-8	Endosulfan I	10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00612 U
33213-65-9	Endosulfan II	10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00612 U
1031-07-8	Endosulfan sulfate	1.65		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00217 J
72-20-8	Endrin	10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00612 U

Table 2 - Soil Analytical Results

		Sample Location:	MW01	SB0105	SB0301	SB0301	SB0405	SB0505	SB0605	SB0705	SB0805	SB0905	SB1005	SB1110	SB1210	SB1310	SB1410	SB1505	SED01
		Sample ID:	MW0120	SB0105	SB0301	SB0301D	SB0405	SB0505	SB0605	SB0705	SB0805	SB0905	SB1005	SB1110	SB1210	SB1310	SB1410	SB1505	SED01
		Sample Date:	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/14/2013	07/14/2013	07/14/2013	07/14/2013	07/14/2013	07/14/2013
		Sample Type:	Soil	Soil	Soil	Duplicate	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Sediment
CAS No.	Analyte	GA NC																	
7421-93-4	Endrin aldehyde	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00612 U
53494-70-5	Endrin ketone		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00612 U
58-89-9	gamma-BHC (Lindane)	0.66	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00556 J
76-44-8	Heptachlor	0.66	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00612 U
1024-57-3	Heptachlor epoxide	1.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00612 U
72-43-5	Methoxychlor	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00612 U
12789-03-6	Technical Chlordane		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00612 U
8001-35-2	Toxaphene	10.88	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.612 U
	Polychlorinated Biphenyls (mg/kg)																		
12674-11-2	Aroclor 1016	1.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.107 U
11104-28-2	Aroclor 1221	1.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.107 U
11141-16-5	Aroclor 1232	1.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.107 U
53469-21-9	Aroclor 1242	1.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.107 U
12672-29-6	Aroclor 1248	1.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.107 U
11097-69-1	Aroclor 1254	1.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.107 U
11096-82-5	Aroclor 1260	1.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.107 U
	Chlorinated Herbicides (mg/kg)																		
93-76-5	2,4,5-T	0.66	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0106 U
93-72-1	2,4,5-TP (Silvex)	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00211 U
94-75-7	2,4-D	1.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0634 U
94-82-6	2,4-DB		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0423 U
75-99-0	Dalapon	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.127 U
1918-00-9	Dicamba	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0423 U
120-36-5	Dichlorprop		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0211 U
88-85-7	Dinoseb	0.66	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0317 U
94-74-6	MCPA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.08 U
93-65-2	MCPP		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.11 U
	Volatile Organic Compounds (mg/kg)																		
630-20-6	1,1,1,2-Tetrachloroethane	1.03	0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
71-55-6	1,1,1-Trichloroethane	5.44	0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
79-34-5	1,1,2,2-Tetrachloroethane	0.13	0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
79-00-5	1,1,2-Trichloroethane	0.5	0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
75-34-3	1,1-Dichloroethane	0.03	0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
75-35-4	1,1-Dichloroethene	0.36	0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
563-58-6	1,1-Dichloropropene		0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
87-61-6	1,2,3-Trichlorobenzene		0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
96-18-4	1,2,3-Trichloropropane	0.54	0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
120-82-1	1,2,4-Trichlorobenzene	10.83	0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
95-63-6	1,2,4-trimethylbenzene		0.00168 J	0.00609	0.00252 U	0.00112 J	0.00871 J	0.00125 J	0.003 B	0.00245 J	0.00277 B	0.00123 J	0.00305	0.00219 J	0.0206	0.00812 B	0.00607 J	0.00241 U	0.00423 U
96-12-8	1,2-Dibromo-3-Chloropropane		0.0124 U	0.0127 U	0.0126 U	0.011 U	0.0668 U	0.0122 U	0.0119 U	0.0122 U	0.0123 U	0.0117 U	0.012 U	0.0125 U	0.0126 U	0.0132 U	0.0642 U	0.012 U	0.0211 U
106-93-4	1,2-Dibromoethane	0.01	0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
95-50-1	1,2-Dichlorobenzene	25	0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
107-06-2	1,2-Dichloroethane	0.02	0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
78-87-5	1,2-Dichloropropane	0.02	0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
108-67-8	1,3,5-trimethybenzene		0.00247 U	0.002 J	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00108 J	0.00088 J	0.00117 J	0.00233 U	0.00084 J	0.00251 U	0.00599	0.00314	0.0128 U	0.00241 U	0.00423 U
541-73-1	1,3-Dichlorobenzene	2.22	0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
142-28-9	1,3-Dichloropropane	1000	0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
106-46-7	1,4-Dichlorobenzene	6.84	0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
594-20-7	2,2-Dichloropropane		0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U

Table 2 - Soil Analytical Results

CAS No.	Analyte	GA NC	Sample Location:	MW01	SB0105	SB0301	SB0301	SB0405	SB0505	SB0605	SB0705	SB0805	SB0905	SB1005	SB1110	SB1210	SB1310	SB1410	SB1505	SED01
			Sample ID:	MW0120	SB0105	SB0301	SB0301D	SB0405	SB0505	SB0605	SB0705	SB0805	SB0905	SB1005	SB1110	SB1210	SB1310	SB1410	SB1505	SED01
			Sample Date:	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/14/2013	07/14/2013	07/14/2013	07/14/2013	07/14/2013	07/14/2013
			Sample Type:	Soil	Soil	Soil	Duplicate	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Sediment
78-93-3	2-Butanone (MEK)	0.79		0.0495 U	0.0508 U	0.0505 U	0.0439 U	0.267 U	0.0487 U	0.0475 U	0.049 U	0.049 U	0.0466 U	0.0481 U	0.0226 J	0.0504 U	0.0718	0.339	0.0481 U	0.0845 U
95-49-8	2-Chlorotoluene			0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00254	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.46	0.869	0.0188	0.00627	0.00957
591-78-6	2-Hexanone			0.0124 U	0.0127 U	0.0126 U	0.011 U	0.0668 U	0.0122 U	0.0119 U	0.0122 U	0.0123 U	0.0117 U	0.012 U	0.0125 U	0.0103 J	0.0132 U	0.0642 U	0.012 U	0.0211 U
106-43-4	4-Chlorotoluene			0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.0331	0.0736	0.0179	0.00241 U	0.00423 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	3.3		0.0124 U	0.0127 U	0.0126 U	0.011 U	0.0668 U	0.0122 U	0.0119 U	0.0122 U	0.0123 U	0.0117 U	0.012 U	0.0125 U	0.0126 U	0.00902 J	0.054 J	0.012 U	0.0211 U
67-64-1	Acetone	2.74		0.0495 U	0.0508 U	0.0505 U	0.0439 U	0.267 U	0.0487 U	0.0475 U	0.049 U	0.0579	0.0466 U	0.101	0.265	0.25	0.276	1.06	0.0481 U	0.0845 U
75-05-8	Acetonitrile	0.04		0.124 U	0.127 U	0.126 U	0.11 U	0.668 U	0.122 U	0.119 U	0.122 U	0.123 U	0.117 U	0.12 U	0.125 U	0.126 U	0.132 U	0.642 U	0.12 U	0.211 U
107-02-8	Acrolein			0.0495 U	0.0508 U	0.0505 U	0.0439 U	0.267 U	0.0487 U	0.0475 U	0.049 U	0.049 U	0.0466 U	0.0481 U	0.0502 U	0.0504 U	0.053 U	0.256 U	0.0481 U	0.0845 U
107-13-1	Acrylonitrile	1.37		0.0495 U	0.0508 U	0.0505 U	0.0439 U	0.267 U	0.0487 U	0.0475 U	0.049 U	0.049 U	0.0466 U	0.0481 U	0.0502 U	0.0504 U	0.053 U	0.256 U	0.0481 U	0.0845 U
71-43-2	Benzene	0.02		0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
108-86-1	Bromobenzene			0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
75-27-4	Bromodichloromethane	1.18		0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
75-25-2	Bromoform	1		0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
74-83-9	Bromomethane	0.8		0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
75-15-0	Carbon disulfide			0.00264	0.00254 U	0.00153 J	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00365	0.00233 U	0.00395	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
56-23-5	Carbon tetrachloride	0.17		0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
108-90-7	Chlorobenzene	4.18		0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
74-97-5	Chlorobromomethane			0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
75-00-3	Chloroethane	0.17		0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.0271
67-66-3	Chloroform	0.68		0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
74-87-3	Chloromethane	0.04		0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
126-99-8	Chloroprene	25		0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
156-59-2	cis-1,2-Dichloroethene			0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
10061-01-5	cis-1,3-Dichloropropene			0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
124-48-1	Dibromochloromethane	1.63		0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
74-95-3	Dibromomethane	1000		0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
75-71-8	Dichlorodifluoromethane	1.49		0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
106-89-8	Epichlorhydrin	0.003		0.247 U	0.254 U	0.252 U	0.22 U	1.34 U	0.244 U	0.238 U	0.245 U	0.245 U	0.233 U	0.241 U	0.251 U	0.252 U	0.265 U	1.28 U	0.241 U	0.423 U
64-17-5	Ethanol			0.247 U	0.254 U	0.252 U	0.22 U	1.34 U	0.244 U	0.238 U	0.245 U	0.245 U	0.233 U	0.241 U	0.251 U	0.252 U	0.265 U	1.28 U	0.241 U	0.423 U
141-78-6	Ethyl acetate	0.07		0.0247 U	0.0254 U	0.0252 U	0.022 U	0.134 U	0.0244 U	0.0238 U	0.0245 U	0.0245 U	0.0233 U	0.0241 U	0.0251 U	0.0252 U	0.0265 U	0.128 U	0.0241 U	0.0423 U
100-41-4	Ethylbenzene	20		0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.00539 J	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
87-68-3	Hexachlorobutadiene	17.5		0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
98-82-8	Isopropylbenzene	21.88		0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00124 J	0.00265 U	0.0128 U	0.00241 U	0.00423 U
74-88-4	Methyl iodide	1000		0.0124 U	0.0127 U	0.0126 U	0.011 U	0.0668 U	0.0122 U	0.0119 U	0.0122 U	0.0123 U	0.0117 U	0.012 U	0.0125 U	0.0126 U	0.0132 U	0.0642 U	0.012 U	0.0211 U
1634-04-4	Methyl tert-butyl ether			0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
75-09-2	Methylene chloride	0.08		0.0247 U	0.0254 U	0.0252 U	0.022 U	0.134 U	0.0244 U	0.0238 U	0.0245 U	0.0245 U	0.0233 U	0.0241 U	0.0251 U	0.0252 U	0.0265 U	0.128 U	0.0241 U	0.0423 U
104-51-8	n-Butylbenzene			0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
103-65-1	n-Propylbenzene			0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00332	0.00265 U	0.0128 U	0.00241 U	0.00423 U
91-20-3	Naphthalene	100		0.0124 U	0.0127 U	0.0126 U	0.011 U	0.036 J	0.0122 U	0.0119 U	0.0122 U	0.0123 U	0.0117 U	0.012 U	0.0125 U	0.00774 J	0.0132 U	0.0642 U	0.012 U	0.0211 U
95-47-6	o-Xylene	20		0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00106 J	0.00237 J	0.00099 J	0.0128 U	0.00241 U	0.00423 U
99-87-6	p-Isopropyltoluene			0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00297	0.00935	0.0128 U	0.00241 U	0.0888
135-98-8	sec-Butylbenzene			0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00142 J
100-42-5	Styrene	14		0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
98-06-6	tert-Butylbenzene			0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
127-18-4	Tetrachloroethene	0.18		0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
108-88-3	Toluene	14.4		0.0124 U	0.0127 U	0.0126 U	0.011 U	0.0668 U	0.0122 U	0.0119 U	0.0122 U	0.0123 U	0.0117 U	0.012 U	0.0125 U	0.0126 U	0.0132 U	0.0642 U	0.012 U	0.333
156-60-5	trans-1,2-Dichloroethene	0.53		0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
10061-02-6	trans-1,3-Dichloropropene			0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
79-01-6	Trichloroethene	0.13		0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U

Table 2 - Soil Analytical Results

		Sample Location:	MW01	SB0105	SB0301	SB0301	SB0405	SB0505	SB0605	SB0705	SB0805	SB0905	SB1005	SB1110	SB1210	SB1310	SB1410	SB1505	SED01
		Sample ID:	MW0120	SB0105	SB0301	SB0301D	SB0405	SB0505	SB0605	SB0705	SB0805	SB0905	SB1005	SB1110	SB1210	SB1310	SB1410	SB1505	SED01
		Sample Date:	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/14/2013	07/14/2013	07/14/2013	07/14/2013	07/14/2013	07/14/2013
		Sample Type:	Soil	Soil	Soil	Duplicate	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Sediment
CAS No.	Analyte	GA NC																	
75-69-4	Trichlorofluoromethane	0.7	0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
108-05-4	Vinyl acetate	0.51	0.0247 U	0.0254 U	0.0252 U	0.022 U	0.134 U	0.0244 U	0.0238 U	0.0245 U	0.0245 U	0.0233 U	0.0241 U	0.0251 U	0.0252 U	0.0265 U	0.128 U	0.0241 U	0.0423 U
75-01-4	Vinyl chloride	0.04	0.00247 U	0.00254 U	0.00252 U	0.0022 U	0.0134 U	0.00244 U	0.00238 U	0.00245 U	0.00245 U	0.00233 U	0.00241 U	0.00251 U	0.00252 U	0.00265 U	0.0128 U	0.00241 U	0.00423 U
1330-20-7	Xylene (Total)	20	0.00495 U	0.00171 J	0.00505 U	0.00439 U	0.0155 J	0.00487 U	0.00475 U	0.0049 U	0.00186 J	0.00466 U	0.00481 U	0.00181 J	0.00504 U	0.0053 U	0.0256 U	0.00481 U	0.00845 U
	Semi-volatile Organic Compounds (mg/kg)																		
634-66-2	1,2,3,4-Tetrachlorobenzene		0.0825 U	0.0847 U	0.0842 U	0.0732 U	0.09 U	0.0812 U	0.0793 U	0.0817 U	0.0817 U	0.0777 U	0.0802 U	0.0837 U	0.084 U	0.0883 U	0.899 U	0.0802 U	0.141 U
95-94-3	1,2,4,5-Tetrachlorobenzene	25	0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
120-82-1	1,2,4-Trichlorobenzene	10.83	0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
95-50-1	1,2-Dichlorobenzene	25	0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
541-73-1	1,3-Dichlorobenzene	2.22	0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
106-46-7	1,4-Dichlorobenzene	6.84	0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
58-90-2	2,3,4,6-Tetrachlorophenol	25	0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
95-95-4	2,4,5-Trichlorophenol	4.56	0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
88-06-2	2,4,6-Trichlorophenol	0.66	0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
120-83-2	2,4-Dichlorophenol	0.96	0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
105-67-9	2,4-Dimethylphenol	1.51	0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
51-28-5	2,4-Dinitrophenol	3.3	2.06 U	2.12 U	2.11 U	1.83 U	2.25 U	2.03 U	1.99 U	2.04 U	2.05 U	1.95 U	2.01 U	2.09 U	2.1 U	2.21 U	22.5 U	2.01 U	3.53 U
121-14-2	2,4-Dinitrotoluene	0.66	0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
87-65-0	2,6-Dichlorophenol	1000	0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
606-20-2	2,6-Dinitrotoluene	0.76	0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
91-58-7	2-Chloronaphthalene	25	0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
95-57-8	2-Chlorophenol	0.68	0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
534-52-1	2-Methyl-4,6-Dinitrophenol		0.408 U	0.419 U	0.416 U	0.362 U	0.445 U	0.402 U	0.392 U	0.404 U	0.404 U	0.384 U	0.397 U	0.414 U	0.415 U	0.437 U	4.45 U	0.397 U	0.697 U
91-57-6	2-Methylnaphthalene		0.0825 U	0.0847 U	0.0842 U	0.0732 U	0.257	0.0812 U	0.0793 U	0.0817 U	0.0817 U	0.0777 U	0.0802 U	0.0837 U	0.084 U	0.0883 U	0.899 U	0.0802 U	0.141 U
95-48-7	2-Methylphenol (o-Cresol)	3.8	0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.0572 J	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
88-74-4	2-Nitroaniline		0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
88-75-5	2-Nitrophenol	1000	0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
91-94-1	3,3'-Dichlorobenzidine	25	0.408 U	0.419 U	0.416 U	0.362 U	0.445 U	0.402 U	0.392 U	0.404 U	0.404 U	0.384 U	0.397 U	0.414 U	0.415 U	0.437 U	4.45 U	0.397 U	0.697 U
119-93-7	3,3-Dimethylbenzidine	1.3	0.408 U	0.419 U	0.416 U	0.362 U	0.445 U	0.402 U	0.392 U	0.404 U	0.404 U	0.384 U	0.397 U	0.414 U	0.415 U	0.437 U	4.45 U	0.397 U	0.697 U
108-39-4	3-Methylphenol (m-Cresol)	3.8	0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
99-09-2	3-Nitroaniline		0.408 U	0.419 U	0.416 U	0.362 U	0.445 U	0.402 U	0.392 U	0.404 U	0.404 U	0.384 U	0.397 U	0.414 U	0.415 U	0.437 U	4.45 U	0.397 U	0.697 U
101-55-3	4-Bromophenyl-phenylether	1000	0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
59-50-7	4-Chloro-3-methylphenol	13.2	0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
106-47-8	4-Chloroaniline		0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
7005-72-3	4-Chlorophenylphenyl ether	1000	0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
100-01-6	4-Nitroaniline		0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
100-02-7	4-Nitrophenol	3.3	0.816 U	0.838 U	0.833 U	0.725 U	0.891 U	0.804 U	0.785 U	0.808 U	0.809 U	0.769 U	0.794 U	0.828 U	0.831 U	0.874 U	8.89 U	0.794 U	1.39 U
83-32-9	Acenaphthene	300	0.0825 U	0.0847 U	0.0842 U	0.0732 U	0.09 U	0.0812 U	0.0793 U	0.0817 U	0.0817 U	0.0777 U	0.0802 U	0.0837 U	0.084 U	0.0883 U	0.899 U	0.0802 U	0.141 U
208-96-8	Acenaphthylene	130	0.0825 U	0.0847 U	0.0842 U	0.0732 U	0.09 U	0.0812 U	0.0793 U	0.0817 U	0.0817 U	0.0777 U	0.0802 U	0.0837 U	0.084 U	0.0883 U	0.899 U	0.0802 U	0.141 U
98-86-2	Acetophenone	0.26	0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
62-53-3	Aniline	0.038	0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
120-12-7	Anthracene	500	0.0825 U	0.0847 U	0.0842 U	0.0732 U	0.09 U	0.0812 U	0.0793 U	0.0817 U	0.0817 U	0.0777 U	0.0802 U	0.0837 U	0.084 U	0.0883 U	0.899 U	0.0802 U	0.141 U
92-87-5	Benzidine	0.05	0.828 U	0.851 U	0.845 U	0.736 U	0.904 U	0.816 U	0.796 U	0.82 U	0.821 U	0.781 U	0.806 U	0.84 U	0.844 U	0.887 U	9.03 U	0.806 U	1.42 U
56-55-3	Benzo(a)anthracene	5	0.0825 U	0.0847 U	0.0842 U	0.0732 U	0.09 U	0.0812 U	0.0793 U	0.0817 U	0.0817 U	0.0777 U	0.0802 U	0.0837 U	0.084 U	0.0883 U	0.899 U	0.0802 U	0.141 U
50-32-8	Benzo(a)pyrene	1.64	0.0825 U	0.0847 U	0.0842 U	0.0732 U	0.09 U	0.0812 U	0.0793 U	0.0817 U	0.0817 U	0.0777 U	0.0802 U	0.0837 U	0.084 U	0.0883 U	0.899 U	0.0802 U	0.141 U
205-99-2	Benzo(b)fluoranthene	5	0.0825 U	0.0847 U	0.0842 U	0.0732 U	0.09 U	0.0812 U	0.0793 U	0.0817 U	0.0817 U	0.0777 U	0.0802 U	0.0837 U	0.084 U	0.0883 U	0.899 U	0.0802 U	0.141 U
191-24-2	Benzo(g,h,i)perylene	500	0.0825 U	0.0847 U	0.0842 U	0.0732 U	0.09 U	0.0812 U	0.0793 U	0.0817 U	0.0817 U	0.0777 U	0.0802 U	0.0837 U	0.084 U	0.0883 U	0.899 U	0.0802 U	0.141 U
207-08-9	Benzo(k)fluoranthene	5	0.0825 U	0.0847 U	0.0842 U	0.0732 U	0.09 U	0.0812 U	0.0793 U	0.0817 U	0.0817 U	0.0777 U	0.0802 U	0.0837 U	0.084 U	0.0883 U	0.899 U	0.0802 U	0.141 U
65-85-0	Benzoic acid	1000	0.408 U	0.419 U	0.416 U	0.362 U	0.445 U	0.402 U	0.392 U	0.404 U	0.404 U	0.384 U	0.397 U	1.84	0.415 U	0.437 U	4.45 U	0.397 U	0.697 U

Table 2 - Soil Analytical Results

CAS No.	Analyte	GA NC	Sample Location:	MW01	SB0105	SB0301	SB0301	SB0405	SB0505	SB0605	SB0705	SB0805	SB0905	SB1005	SB1110	SB1210	SB1310	SB1410	SB1505	SED01
			Sample ID:	MW0120	SB0105	SB0301	SB0301D	SB0405	SB0505	SB0605	SB0705	SB0805	SB0905	SB1005	SB1110	SB1210	SB1310	SB1410	SB1505	SED01
			Sample Date:	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/13/2013	07/14/2013	07/14/2013	07/14/2013	07/14/2013	07/14/2013	07/14/2013
			Sample Type:	Soil	Soil	Soil	Duplicate	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Sediment
100-51-6	Benzyl alcohol			0.133 JB	0.134 JB	0.0963 JB	0.0888 JB	0.445 U	0.0329 JB	0.0314 JB	0.404 U	0.12 JB	0.132 JB	0.0659 JB	0.414 U	0.0764 JB	0.085 JB	4.45 U	0.0353 JB	0.697 U
111-91-1	bis(2-Chloroethoxy)methane	0.027		0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
111-44-4	bis(2-Chloroethyl)ether	0.6		0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
108-60-1	bis(2-Chloroisopropyl)ether	170.91		0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
117-81-7	bis(2-Ethylhexyl)phthalate	50		0.408 U	0.0269 J	0.108 J	0.0838 J	0.0717 J	0.402 U	0.392 U	0.404 U	0.404 U	0.0419 J	0.397 U	0.414 U	0.415 U	0.437 U	4.45 U	0.397 U	0.185 J
85-68-7	Butylbenzylphthalate	50		0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
86-74-8	Carbazole			0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
218-01-9	Chrysene	5		0.0825 U	0.0847 U	0.0842 U	0.0732 U	0.09 U	0.0812 U	0.0793 U	0.0817 U	0.0817 U	0.0777 U	0.0802 U	0.0837 U	0.084 U	0.0883 U	0.899 U	0.0802 U	0.141 U
84-74-2	Di-n-butylphthalate	13.7		0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
117-84-0	Di-n-octylphthalate	50		0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
53-70-3	Dibenz(a,h)anthracene	5		0.0825 U	0.0847 U	0.0842 U	0.0732 U	0.09 U	0.0812 U	0.0793 U	0.0817 U	0.0817 U	0.0777 U	0.0802 U	0.0837 U	0.0219 J	0.0883 U	0.899 U	0.0802 U	0.141 U
132-64-9	Dibenzofuran			0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
84-66-2	Diethylphthalate	0.74		0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
131-11-3	Dimethylphthalate	0.66		0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
206-44-0	Fluoranthene	500		0.0825 U	0.0847 U	0.0842 U	0.0732 U	0.09 U	0.0812 U	0.0793 U	0.0817 U	0.0817 U	0.0777 U	0.0802 U	0.0837 U	0.084 U	0.0883 U	0.899 U	0.0802 U	0.141 U
86-73-7	Fluorene	360		0.0825 U	0.0847 U	0.0842 U	0.0732 U	0.09 U	0.0812 U	0.0793 U	0.0817 U	0.0817 U	0.0777 U	0.0802 U	0.0837 U	0.084 U	0.0883 U	0.899 U	0.0802 U	0.141 U
118-74-1	Hexachlorobenzene	2.14		0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
87-68-3	Hexachlorobutadiene	17.5		0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
77-47-4	Hexachlorocyclopentadiene	15.2		0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
67-72-1	Hexachloroethane	9.99		0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
193-39-5	Indeno(1,2,3-cd)pyrene	5		0.0825 U	0.0847 U	0.0842 U	0.0732 U	0.09 U	0.0812 U	0.0793 U	0.0817 U	0.0817 U	0.0777 U	0.0802 U	0.0837 U	0.084 U	0.0883 U	0.899 U	0.0802 U	0.141 U
78-59-1	Isophorone	0.19		0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
924-16-3	N-Nitroso-di-n-butylamine	0.4		0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
621-64-7	N-Nitroso-di-n-propylamine	1.71		0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
55-18-5	N-Nitrosodiethylamine	0.014		0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
62-75-9	N-Nitrosodimethylamine	0.66		0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
86-30-6	N-Nitrosodiphenylamine	6.46		0.408 U	0.419 U	0.416 U	0.362 U	0.445 U	0.402 U	0.392 U	0.404 U	0.404 U	0.384 U	0.397 U	0.414 U	0.415 U	0.437 U	4.45 U	0.397 U	0.697 U
91-20-3	Naphthalene	100		0.0825 U	0.0847 U	0.0842 U	0.0732 U	0.396	0.0812 U	0.0793 U	0.0817 U	0.0817 U	0.0777 U	0.0802 U	0.0837 U	0.084 U	0.0883 U	0.899 U	0.0802 U	0.141 U
98-95-3	Nitrobenzene	0.7		0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.29 U	0.204 U	0.359 U
87-86-5	Pentachlorophenol	3.3		0.408 U	0.419 U	0.416 U	0.362 U	0.445 U	0.402 U	0.392 U	0.404 U	0.404 U	0.384 U	0.397 U	0.414 U	0.415 U	0.437 U	4.45 U	0.397 U	0.697 U
85-01-8	Phenanthrene	110		0.0825 U	0.0847 U	0.0842 U	0.0732 U	0.09 U	0.0812 U	0.0793 U	0.0817 U	0.0817 U	0.0777 U	0.0802 U	0.0837 U	0.084 U	0.0883 U	0.899 U	0.0802 U	0.141 U
108-95-2	Phenol	50		0.21 U	0.216 U	0.214 U	0.187 U	0.229 U	0.207 U	0.202 U	0.208 U	0.208 U	0.198 U	0.204 U	0.213 U	0.214 U	0.225 U	2.85	0.204 U	0.359 U
129-00-0	Pyrene	500		0.0825 U	0.0847 U	0.0842 U	0.0732 U	0.09 U	0.0812 U	0.0793 U	0.0817 U	0.0817 U	0.0777 U	0.0802 U	0.0837 U	0.084 U	0.0883 U	0.899 U	0.0802 U	0.141 U
110-86-1	Pyridine	0.038		0.408 U	0.419 U	0.416 U	0.362 U	0.445 U	0.402 U	0.392 U	0.404 U	0.404 U	0.384 U	0.397 U	0.414 U	0.415 U	0.437 U	4.45 U	0.397 U	0.697 U
80-05-7	Bisphenol A			0.408 U	0.419 U	0.416 U	0.362 U	0.124 J	0.402 U	0.392 U	0.404 U	0.404 U	0.109 J	0.397 U	0.414 U	0.415 U	0.437 U	0.445 U	0.397 U	0.697 U
84852-15-3	para-Nonylphenol			0.408 U	0.419 U	0.416 U	0.362 U	0.445 U	0.402 U	0.392 U	0.404 U	0.404 U	0.384 U	0.397 U	0.414 U	0.415 U	0.437 U	0.445 U	0.397 U	0.697 U
	n-Hexane Extractable Material (mg/kg)																			
9999001-07-0	Oil & Grease (Hexane Extractable)			NA	NA	334	136	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

GA NC = Georgia Environmental Protection Division (EPD) Appendix I Notification Concentrations (Chapter 391-3-19, Hazardous Site Response)
mg/kg = milligrams per kilogram
NA = not analyzed
U = undetected value
J = estimated value
B = Chemical was detected in the laboratory method blank and sample.
Underline = Result is above the GA EPD NC
Depth = soil sample depth indicated by last two numerical digits of sample ID

Metals were analyzed with Method 6020.
Mercury was analyzed with Method 7471.
Nonhalogenated Organics with Method 8015.
Organochlorine Pesticides were analyzed with Method 8081.
Polychlorinated Biphenyls (PCBs) were analyzed with Method 8082.
Chlorinated Herbicides were analyzed with Method 8151.
Volatile Organic Compounds (VOCs) were analyzed with Method 8260.
Semi-volatile Organic Compounds were analyzed with Method 8270.
n-Hexane Extractable Materials were analyzed with Method 9071.

Table 3 - Groundwater and Surface Water Analytical Results

	Sample Location:	MW01	MW03	MW03	SW01
	Sample ID:	MW01	MW03G01	MW03H01	SW01
	Sample Date:	07/14/2013	07/14/2013	07/14/2013	07/14/2013
	Sample Type:	Groundwater	Groundwater	Duplicate	Surface Water
CAS No.	**Analyte**				
124-40-3	Dimethylamine	1000 U	1000 U	1000 U	1000 U
	Metals (µg/L)				
7429-90-5	Aluminum	5840	9160	7270	161
7440-36-0	Antimony	1 U	1 U	1 U	0.099 J
7440-38-2	Arsenic	1.02	0.636 J	1 U	1.17
7440-39-3	Barium	309	163	142	52.5
7440-41-7	Beryllium	0.263 J	0.348 J	0.27 J	1 U
7440-43-9	Cadmium	0.123 J	1 U	1 U	1 U
7440-70-2	Calcium	42900	26000	26100	30800
7440-47-3	Chromium	6.04	13.1	11.2	1 U
7440-48-4	Cobalt	59	7.89	6.2	3.96
7440-50-8	Copper	3.44	4.62	3.87	1.25
7439-89-6	Iron	4610	7380	6130	3760
7439-92-1	Lead	4.04	4.48	3.26	0.673 J
7439-95-4	Magnesium	12200	5810	5400	3160
7439-96-5	Manganese	10900	561	412	1220
7439-98-7	Molybdenum	1 U	1 U	1 U	1 U
7440-02-0	Nickel	121	17	15.1	1.16
7440-09-7	Potassium	2140	1940	1870	1840
7782-49-2	Selenium	1.27	1 U	1 U	0.405 J
7440-22-4	Silver	0.016 J	0.006 J	1 U	1 U
7440-23-5	Sodium	179000	4390	4440	2080
7440-28-0	Thallium	1 U	1 U	1 U	1 U
7440-62-2	Vanadium	4.56 J	7.88	6.43	5 U
7440-66-6	Zinc	22.3	18.3	15.8	7.26
	Mercury (µg/L)				
7439-97-6	Mercury	0.2 U	0.2 U	0.2 U	0.2 U
	Nonhalogenated Organics (µg/L)				
111-46-6	Diethylene Glycol	50000 U	50000 U	50000 U	50000 U
67-63-0	Isopropanol	481 JB	517 JB	1000 U	1000 U
57-55-6	Propylene glycol	21500 JB	15700 JB	16700 JB	17900 JB

Table 3 - Groundwater and Surface Water Analytical Results

	Sample Location:	MW01	MW03	MW03	SW01
	Sample ID:	MW01	MW03G01	MW03H01	SW01
	Sample Date:	07/14/2013	07/14/2013	07/14/2013	07/14/2013
	Sample Type:	Groundwater	Groundwater	Duplicate	Surface Water
CAS No.	**Analyte**				
	Organochlorine Pesticides (µg/L)				
72-54-8	4,4'-DDD	NA	NA	NA	0.0412 U
72-55-9	4,4'-DDE	NA	NA	NA	0.0412 U
50-29-3	4,4'-DDT	NA	NA	NA	0.0412 U
309-00-2	Aldrin	NA	NA	NA	0.0412 U
319-84-6	alpha-BHC	NA	NA	NA	0.0412 U
5103-71-9	alpha-Chlordane	NA	NA	NA	0.0412 U
319-85-7	beta-BHC	NA	NA	NA	0.0412 U
57-74-9	Chlordane	NA	NA	NA	0.258 U
2385-85-5	Dechlorane	NA	NA	NA	0.0412 U
319-86-8	delta-BHC	NA	NA	NA	0.0412 U
60-57-1	Dieldrin	NA	NA	NA	0.0412 U
959-98-8	Endosulfan I	NA	NA	NA	0.0412 U
33213-65-9	Endosulfan II	NA	NA	NA	0.0412 U
1031-07-8	Endosulfan sulfate	NA	NA	NA	0.0412 U
72-20-8	Endrin	NA	NA	NA	0.0412 U
7421-93-4	Endrin aldehyde	NA	NA	NA	0.0412 U
53494-70-5	Endrin ketone	NA	NA	NA	0.0412 U
58-89-9	gamma-BHC (Lindane)	NA	NA	NA	0.0412 U
76-44-8	Heptachlor	NA	NA	NA	0.0412 U
1024-57-3	Heptachlor epoxide	NA	NA	NA	0.0412 U
72-43-5	Methoxychlor	NA	NA	NA	0.0412 U
12789-03-6	Technical Chlordane	NA	NA	NA	0.0412 U
8001-35-2	Toxaphene	NA	NA	NA	0.309 U
	Polychlorinated Biphenyls (µg/L)				
12674-11-2	Aroclor 1016	NA	NA	NA	0.515 U
11104-28-2	Aroclor 1221	NA	NA	NA	0.515 U
11141-16-5	Aroclor 1232	NA	NA	NA	0.515 U
53469-21-9	Aroclor 1242	NA	NA	NA	0.515 U
12672-29-6	Aroclor 1248	NA	NA	NA	0.515 U
11097-69-1	Aroclor 1254	NA	NA	NA	0.515 U
11096-82-5	Aroclor 1260	NA	NA	NA	0.515 U

Table 3 - Groundwater and Surface Water Analytical Results

	Sample Location:	MW01	MW03	MW03	SW01
	Sample ID:	MW01	MW03G01	MW03H01	SW01
	Sample Date:	07/14/2013	07/14/2013	07/14/2013	07/14/2013
	Sample Type:	Groundwater	Groundwater	Duplicate	Surface Water
CAS No.	**Analyte**				
	Chlorinated Herbicides (µg/L)				
93-76-5	2,4,5-T	NA	NA	NA	0.2 U
93-72-1	2,4,5-TP (Silvex)	NA	NA	NA	0.03 U
94-75-7	2,4-D	NA	NA	NA	0.1 U
94-82-6	2,4-DB	NA	NA	NA	0.1 U
75-99-0	Dalapon	NA	NA	NA	0.75 U
1918-00-9	Dicamba	NA	NA	NA	0.8 U
120-36-5	Dichlorprop	NA	NA	NA	0.1 U
88-85-7	Dinoseb	NA	NA	NA	2.7 U
94-74-6	MCPA	NA	NA	NA	180 U
93-65-2	MCPP	NA	NA	NA	20 U
87-86-5	Pentachlorophenol	NA	NA	NA	0.01 U
1918-02-1	Pichloram	NA	NA	NA	0.1 U
	Volatile Organic Compounds (µg/L)				
630-20-6	1,1,1,2-Tetrachloroethane	1 U	1 U	1 U	1 U
71-55-6	1,1,1-Trichloroethane	1 U	1 U	1 U	8.08
79-34-5	1,1,2,2-Tetrachloroethane	1 U	1 U	1 U	1 U
79-00-5	1,1,2-Trichloroethane	1 U	1 U	1 U	1 U
75-34-3	1,1-Dichloroethane	1 U	1 U	1 U	3.67
75-35-4	1,1-Dichloroethene	1 U	1 U	1 U	8.18
563-58-6	1,1-Dichloropropene	1 U	1 U	1 U	1 U
87-61-6	1,2,3-Trichlorobenzene	1 U	1 U	1 U	1 U
96-18-4	1,2,3-Trichloropropane	1 U	1 U	1 U	1 U
120-82-1	1,2,4-Trichlorobenzene	1 U	1 U	1 U	1 U
95-63-6	1,2,4-trimethylbenzene	1 U	1 U	1 U	1 U
96-12-8	1,2-Dibromo-3-Chloropropane	5 U	5 U	5 U	5 U
106-93-4	1,2-Dibromoethane	1 U	1 U	1 U	1 U
95-50-1	1,2-Dichlorobenzene	1 U	1 U	1 U	1 U
107-06-2	1,2-Dichloroethane	1 U	1 U	1 U	1 U
78-87-5	1,2-Dichloropropane	1 U	1 U	1 U	1 U
108-67-8	1,3,5-trimethybenzene	1 U	1 U	1 U	1 U
541-73-1	1,3-Dichlorobenzene	1 U	1 U	1 U	1 U

Table 3 - Groundwater and Surface Water Analytical Results

	Sample Location:	MW01	MW03	MW03	SW01
	Sample ID:	MW01	MW03G01	MW03H01	SW01
	Sample Date:	07/14/2013	07/14/2013	07/14/2013	07/14/2013
	Sample Type:	Groundwater	Groundwater	Duplicate	Surface Water
CAS No.	Analyte				
142-28-9	1,3-Dichloropropane	1 U	1 U	1 U	1 U
106-46-7	1,4-Dichlorobenzene	1 U	1 U	1 U	1 U
594-20-7	2,2-Dichloropropane	1 U	1 U	1 U	1 U
78-93-3	2-Butanone (MEK)	20 U	20 U	20 U	20 U
110-75-8	2-Chloroethylvinylether	5 U	5 U	5 U	5 U
95-49-8	2-Chlorotoluene	1 U	1 U	1 U	1 U
591-78-6	2-Hexanone	5 U	5 U	5 U	5 U
106-43-4	4-Chlorotoluene	1 U	1 U	1 U	1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5 U	5 U	5 U	5 U
67-64-1	Acetone	20 U	20 U	20 U	20 U
75-05-8	Acetonitrile	50 U	50 U	50 U	50 U
107-02-8	Acrolein	20 U	20 U	20 U	20 U
107-13-1	Acrylonitrile	20 U	20 U	20 U	20 U
71-43-2	Benzene	0.663 J	1 U	1 U	1 U
108-86-1	Bromobenzene	1 U	1 U	1 U	1 U
75-27-4	Bromodichloromethane	1 U	1 U	1 U	1 U
75-25-2	Bromoform	1 U	1 U	1 U	1 U
74-83-9	Bromomethane	1 U	1 U	1 U	1 U
75-15-0	Carbon disulfide	1.29	1 U	1 U	1 U
56-23-5	Carbon tetrachloride	1 U	1 U	1 U	1 U
108-90-7	Chlorobenzene	1 U	1 U	1 U	1 U
74-97-5	Chlorobromomethane	1 U	1 U	1 U	1 U
75-00-3	Chloroethane	1 U	1 U	1 U	1 U
67-66-3	Chloroform	1 U	1 U	1 U	1 U
74-87-3	Chloromethane	1 U	1 U	1 U	1 U
156-59-2	cis-1,2-Dichloroethene	1 U	1 U	1 U	1 U
10061-01-5	cis-1,3-Dichloropropene	1 U	1 U	1 U	1 U
124-48-1	Dibromochloromethane	1 U	1 U	1 U	1 U
74-95-3	Dibromomethane	1 U	1 U	1 U	1 U
75-71-8	Dichlorodifluoromethane	1 U	1 U	1 U	1 U
106-89-8	Epichlorhydrin	100 U	100 U	100 U	100 U
64-17-5	Ethanol	100 U	100 U	100 U	100 U

Table 3 - Groundwater and Surface Water Analytical Results

	Sample Location:	MW01	MW03	MW03	SW01
	Sample ID:	MW01	MW03G01	MW03H01	SW01
	Sample Date:	07/14/2013	07/14/2013	07/14/2013	07/14/2013
	Sample Type:	Groundwater	Groundwater	Duplicate	Surface Water
CAS No.	**Analyte**				
141-78-6	Ethyl acetate	10 U	10 U	10 U	10 U
100-41-4	Ethylbenzene	0.286 J	1 U	1 U	1 U
87-68-3	Hexachlorobutadiene	1 U	1 U	1 U	1 U
98-82-8	Isopropylbenzene	0.36 J	1 U	1 U	1 U
74-88-4	Methyl iodide	5 U	5 U	5 U	5 U
1634-04-4	Methyl tert-butyl ether	1 U	1 U	1 U	1 U
75-09-2	Methylene chloride	2.52 JB	2.23 JB	2.63 JB	2.9 JB
104-51-8	n-Butylbenzene	1 U	1 U	1 U	1 U
103-65-1	n-Propylbenzene	1 U	1 U	1 U	1 U
91-20-3	Naphthalene	5 U	5 U	5 U	5 U
95-47-6	o-Xylene	0.414 J	1 U	1 U	1 U
99-87-6	p-Isopropyltoluene	1 U	1 U	1 U	0.453 J
135-98-8	sec-Butylbenzene	1 U	1 U	1 U	1 U
100-42-5	Styrene	1 U	1 U	1 U	1 U
98-06-6	tert-Butylbenzene	1 U	1 U	1 U	4.69
127-18-4	Tetrachloroethene	1 U	1 U	1 U	1 U
108-88-3	Toluene	0.572 J	5 U	5 U	4.6 J
156-60-5	trans-1,2-Dichloroethene	1 U	1 U	1 U	1 U
10061-02-6	trans-1,3-Dichloropropene	1 U	1 U	1 U	1 U
79-01-6	Trichloroethene	1 U	1 U	1 U	1 U
75-69-4	Trichlorofluoromethane	1 U	1 U	1 U	1 U
108-05-4	Vinyl acetate	10 U	10 U	10 U	10 U
75-01-4	Vinyl chloride	1 U	1 U	1 U	1 U
1330-20-7	Xylene (Total)	0.952 J	2 U	2 U	2 U
	Semi-volatile Organic Compounds (µg/L)				
95-94-3	1,2,4,5-Tetrachlorobenzene	5 U	5 U	6.94 U	5 U
120-82-1	1,2,4-Trichlorobenzene	5 U	5 U	6.94 U	5 U
95-50-1	1,2-Dichlorobenzene	5 U	5 U	6.94 U	5 U
541-73-1	1,3-Dichlorobenzene	5 U	5 U	6.94 U	5 U
106-46-7	1,4-Dichlorobenzene	5 U	5 U	6.94 U	5 U
90-12-0	1-Methyl naphthalene	0.14	0.0939	0.0212 U	0.0726
58-90-2	2,3,4,6-Tetrachlorophenol	5 U	5 U	6.94 U	5 U

Table 3 - Groundwater and Surface Water Analytical Results

	Sample Location:	MW01	MW03	MW03	SW01
	Sample ID:	MW01	MW03G01	MW03H01	SW01
	Sample Date:	07/14/2013	07/14/2013	07/14/2013	07/14/2013
	Sample Type:	Groundwater	Groundwater	Duplicate	Surface Water
CAS No.	Analyte				
95-95-4	2,4,5-Trichlorophenol	5 U	5 U	6.94 U	5 U
88-06-2	2,4,6-Trichlorophenol	5 U	5 U	6.94 U	5 U
120-83-2	2,4-Dichlorophenol	5 U	5 U	6.94 U	5 U
105-67-9	2,4-Dimethylphenol	5 U	5 U	6.94 U	5 U
51-28-5	2,4-Dinitrophenol	10 U	10 U	13.9 U	10 U
121-14-2	2,4-Dinitrotoluene	5 U	5 U	6.94 U	5 U
87-65-0	2,6-Dichlorophenol	5 U	5 U	6.94 U	5 U
606-20-2	2,6-Dinitrotoluene	5 U	5 U	6.94 U	5 U
91-58-7	2-Chloronaphthalene	5 U	5 U	6.94 U	5 U
95-57-8	2-Chlorophenol	5 U	5 U	6.94 U	5 U
534-52-1	2-Methyl-4,6-Dinitrophenol	10 U	10 U	13.9 U	10 U
91-57-6	2-Methylnaphthalene	0.0669	0.0259	2.78 U	0.0194 J
95-48-7	2-Methylphenol (o-Cresol)	5 U	5 U	6.94 U	5 U
88-74-4	2-Nitroaniline	5 U	5 U	6.94 U	5 U
88-75-5	2-Nitrophenol	5 U	5 U	6.94 U	5 U
91-94-1	3,3'-Dichlorobenzidine	10 U	10 U	13.9 U	10 U
119-93-7	3,3-Dimethylbenzidine	10 U	10 U	13.9 U	10 U
108-39-4	3-Methylphenol (m-Cresol)	5 U	5 U	6.94 U	5 U
99-09-2	3-Nitroaniline	10 U	10 U	13.9 U	10 U
101-55-3	4-Bromophenyl-phenylether	5 U	5 U	6.94 U	5 U
59-50-7	4-Chloro-3-methylphenol	5 U	5 U	6.94 U	5 U
106-47-8	4-Chloroaniline	5 U	5 U	6.94 U	5 U
7005-72-3	4-Chlorophenylphenyl ether	5 U	5 U	6.94 U	5 U
100-01-6	4-Nitroaniline	5 U	5 U	6.94 U	5 U
100-02-7	4-Nitrophenol	20 U	20 U	27.8 U	20 U
83-32-9	Acenaphthene	2 U	2 U	2.78 U	2 U
208-96-8	Acenaphthylene	0.0082 J	0.0211 U	2.78 U	0.0212 U
98-86-2	Acetophenone	5 U	5 U	6.94 U	5 U
62-53-3	Aniline	5 U	5 U	6.94 U	5 U
120-12-7	Anthracene	0.0214 U	2 U	0.00919 J	0.0078 J
92-87-5	Benzidine	20 U	20 U	27.8 U	20 U
56-55-3	Benzo(a)anthracene	0.0214 U	0.0211 U	2.78 U	0.0212 U

Table 3 - Groundwater and Surface Water Analytical Results

	Sample Location:	MW01	MW03	MW03	SW01
	Sample ID:	MW01	MW03G01	MW03H01	SW01
	Sample Date:	07/14/2013	07/14/2013	07/14/2013	07/14/2013
	Sample Type:	Groundwater	Groundwater	Duplicate	Surface Water
CAS No.	Analyte				
50-32-8	Benzo(a)pyrene	2 U	2 U	2.78 U	2.3
205-99-2	Benzo(b)fluoranthene	0.0214 U	2 U	0.0212 U	0.0212 U
191-24-2	Benzo(g,h,i)perylene	2 U	0.0211 U	2.78 U	3.97
207-08-9	Benzo(k)fluoranthene	0.0214 U	2 U	0.0212 U	0.0212 U
65-85-0	Benzoic acid	10 U	10 U	13.9 U	10 U
100-51-6	Benzyl alcohol	10 U	3.43 J	4.9 J	3.3 J
111-91-1	bis(2-Chloroethoxy)methane	5 U	5 U	6.94 U	5 U
111-44-4	bis(2-Chloroethyl)ether	5 U	5 U	6.94 U	5 U
108-60-1	bis(2-Chloroisopropyl)ether	5 U	5 U	6.94 U	5 U
117-81-7	bis(2-Ethylhexyl)phthalate	10 U	10 U	0.802 J	1.33 J
85-68-7	Butylbenzylphthalate	0.573 J	5 U	6.94 U	5 U
86-74-8	Carbazole	5 U	5 U	6.94 U	5 U
218-01-9	Chrysene	0.0214 U	0.0211 U	0.0212 U	0.0212 U
84-74-2	Di-n-butylphthalate	0.845 J	0.543 J	0.83 J	5 U
117-84-0	Di-n-octylphthalate	5 U	5 U	6.94 U	2.61 J
53-70-3	Dibenz(a,h)anthracene	0.644 J	2 U	0.0212 U	0.0212 U
132-64-9	Dibenzofuran	5 U	5 U	6.94 U	5 U
84-66-2	Diethylphthalate	5 U	0.643 J	1.01 J	5 U
131-11-3	Dimethylphthalate	5 U	5 U	6.94 U	5 U
206-44-0	Fluoranthene	0.00979 J	0.00836 J	0.0212 U	0.00847 J
86-73-7	Fluorene	2 U	2 U	2.78 U	2 U
118-74-1	Hexachlorobenzene	5 U	5 U	6.94 U	5 U
87-68-3	Hexachlorobutadiene	5 U	5 U	6.94 U	5 U
77-47-4	Hexachlorocyclopentadiene	5 U	5 U	6.94 U	5 U
67-72-1	Hexachloroethane	5 U	5 U	6.94 U	5 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0214 U	0.0211 U	0.0212 U	0.0212 U
78-59-1	Isophorone	5 U	5 U	6.94 U	5 U
924-16-3	N-Nitroso-di-n-butylamine	5 U	5 U	6.94 U	5 U
621-64-7	N-Nitroso-di-n-propylamine	5 U	5 U	6.94 U	5 U
55-18-5	N-Nitrosodiethylamine	5 U	5 U	6.94 U	5 U
62-75-9	N-Nitrosodimethylamine	5 U	5 U	6.94 U	5 U
86-30-6	N-Nitrosodiphenylamine	10 U	10 U	13.9 U	10 U
91-20-3	Naphthalene	0.115	0.0582	2.78 U	0.0487
98-95-3	Nitrobenzene	5 U	5 U	6.94 U	5 U
87-86-5	Pentachlorophenol	10 U	10 U	13.9 U	10 U

Table 3 - Groundwater and Surface Water Analytical Results

	Sample Location:	MW01	MW03	MW03	SW01
	Sample ID:	MW01	MW03G01	MW03H01	SW01
	Sample Date:	07/14/2013	07/14/2013	07/14/2013	07/14/2013
	Sample Type:	Groundwater	Groundwater	Duplicate	Surface Water
CAS No.	Analyte				
85-01-8	Phenanthrene	0.0214 U	0.0211 U	2.78 U	0.0115 J
108-95-2	Phenol	5 U	5 U	6.94 U	5 U
129-00-0	Pyrene	2 U	0.0104 J	0.0212 U	2 U
110-86-1	Pyridine	10 U	10 U	13.9 U	10 U
80-05-7	Bisphenol A	5.92 J	10 U	13.9 U	10 U
84852-15-3	para-Nonylphenol	10 U	10 U	13.9 U	10 U

Notes:

µg/L = micrograms per liter
NA = not analyzed
U = undetected value
J = estimated value below the MQL
JB = Chemical was detected in the laboratory method blank and sample.

Metals were analyzed with Method 6020.

Mercury was analyzed with Method 7471.

Nonhalogenated Organics with Method 8015.

Organochlorine Pesticides were analyzed with Method 8081.

Polychlorinated Biphenyls (PCBs) were analyzed with Method 8082.

Chlorinated Herbicides were analyzed with Method 8151.

Volatile Organic Compounds (VOCs) were analyzed with Method 8260.

Semi-volatile Organic Compounds were analyzed with Method 8270.

Georgia Department of Natural Resources
Environmental Protection Division-Land Protection Branch
2 Martin Luther King Jr., Dr., Suite 1054 East, Atlanta, Georgia 30334
(404) 657-8600; Fax (404) 657-0807
Judson H. Turner, Director

February 27, 2014

Polystar LLC
c/o Mr. Kevin Harris
206 Brookhollow Road
Dalton, GA 30721

Re: Release Notification
Polystar LLC
206, 208, 216 Brookhollow Road
Dalton, Whitfield County, GA 30721

Dear Mr. Harris:

Pursuant to the Rules for Hazardous Site Response, specifically Rule 391-3-19-.05(1) "Listing on the Hazardous Site Inventory," the Environmental Protection Division (EPD) has evaluated the above referenced property to determine whether a release exceeding a reportable quantity has occurred. As EPD has determined that a reportable quantity has not been exceeded in groundwater and the on-site pathway evaluation has been deferred, this property will not be listed on the Hazardous Site Inventory.

The on-site pathway evaluation has been deferred due to EPD's receipt of a prospective purchaser corrective action plan (CAP) for this property pursuant to the Hazardous Site Reuse and Redevelopment ("Brownfields") Act. Upon approval of the CAP and sale of the property, the purchaser will conduct soil cleanup under oversight by the Brownfields program, in accordance with an approved schedule. The on-site pathway will be evaluated after the soil cleanup is complete, unless EPD determines that the release requires an evaluation sooner.

This evaluation was made on the basis of current site conditions and information available to EPD, including your notification dated December 2, 2013 and response letter dated February 5, 2014 (see attached documents). Should you become aware of information different from the conditions described in the attached documents, you are required as the owner of the property to notify this office. Subsequent owners will also become subject to this notification requirement; therefore, copies of this letter and the attached documents should be provided to any party or parties to whom you transfer ownership of this property in whole or in part.

Please direct questions regarding this matter to Mr. Montague M^{c}Pherson of the Response and Remediation Program at (404) 657-8600.

Sincerely,

Jason Metzger
Unit Coordinator
Response and Remediation Program

c: Russell Griebel (w/o attachments)
Madeleine Kellam, EPD (w/ attachments)
Encl.: Trip Report/RQSM Score Sheet/Recommendation Memo
File: Brownfields (Polystar LLC, Whitfield County)
S:\RDRIVE\MONTMC\NOTIF\206 Brookhollow Roadr\Non-HSI Let.doc

ENSAFE
5724 Summer Trees Drive
Memphis TN 38134

Soil Boring/Monitoring Well Log
Project : 0888813843
Project Astro Dalton, GA

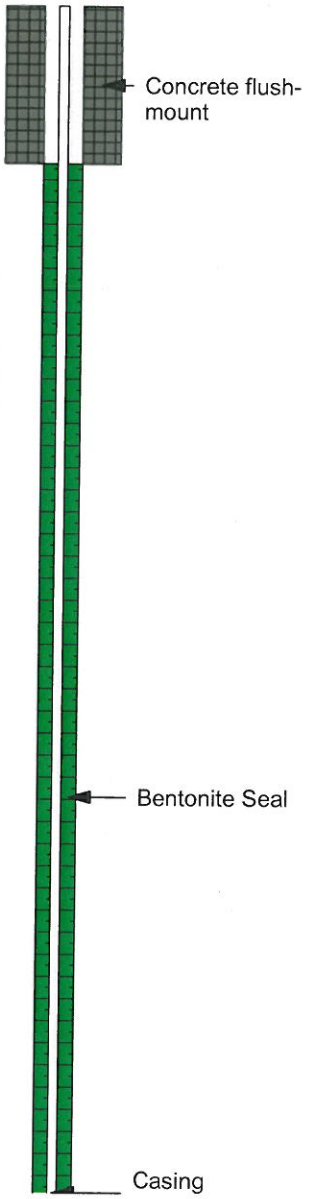
Location: MW03

Client: Cargill

Purpose: Site Assessment

Start Date:	07/13/2013	Northing:	3842623
End Date:	07/13/2013	Easting:	687122
Drilling Method:	DPT and HSA	TOC Elevation:	750.60
Drilling Contractor:	Tri-State Drilling	Surface Elevation FT:	750.88
Geologist:	Dave Fuehrer	Total Depth FT:	30

DEPTH FT BGS	ELEVATION	SAMPLE INTERVAL	SYMBOLS	USCS	Lithologic Description (Visual-Manual Description (ASTM D 2488-06))	Well Construction	Well Description
0	750			CL	dark gray silty clay, soft, moist, earthy odor, staining		
				CL	dark orange/red sandy clay, stiff, moist, staining		
-5	745			ML	yellowish brown silt, soft		
				CL	reddish brown clay with trace gravel, stiff, staining		
-10	740			SM	dark brown silty sand with trace gravel, soft, staining		
-15							



NOTES:

G:

ENSAFE
5724 Summer Trees Drive
Memphis TN 38134

Soil Boring/Monitoring Well Log
Project : 0888813843
Project Astro Dalton, GA

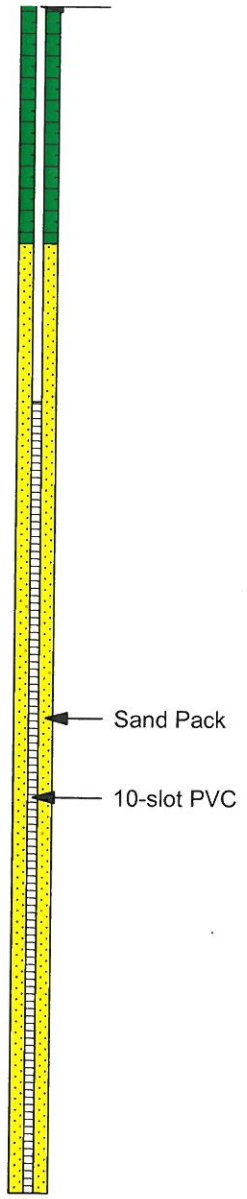
Location: MW03

Client: Cargill

Purpose: Site Assessment

Start Date:	07/13/2013	Northing:	3842623
End Date:	07/13/2013	Easting:	687122
Drilling Method:	DPT and HSA	TOC Elevation:	750.60
Drilling Contractor:	Tri-State Drilling	Surface Elevation FT:	750.88
Geologist:	Dave Fuehrer	Total Depth FT:	30

DEPTH FT BGS	ELEVATION	SAMPLE INTERVAL	SYMBOLS	USCS	Lithologic Description (Visual-Manual Description (ASTM D 2488-06))	Well Construction	Well Description
15	735						
				SM	yellowish brown silty sand, soft, moist, staining		
20	730			SM	dark brown silty sand, wet		
				SM	dark brown silty sand, dry, staining		
25	725			SM	light brown silty sand, water		
				SM	dark brown silty sand, trace gravel, staining, moist		
30							



NOTES:

G:

APPENDIX D

LABORATORY ANALYTICAL REPORTS

February 29, 2016

Kristen Rivera
EarthCon
1880 West Oak Park
Bldg 100 Suite 106
Marietta, GA 30062

RE: Dilutions – AMC Dalton

Section 4.0 of SW846 Method 8000D, Determinative Chromatographic Separations provides guidance on minimizing contamination, including cross contamination between samples. Sample screening procedures are strongly recommended and discussed in Sec. 4.3. Historical data, when available, can also be used to determine a dilution. The laboratory uses this information to determine a dilution that targets the upper half of the calibration range for the highest constituent compounds in a sample.

The samples in this project were ran at various dilutions based on historical data indicating major constituents at 5 to 1000 times the calibration range. Since the analysis at the sample dilutions determined provided appropriate method compliant quantitation for target compounds, the laboratory did not re-analyze at a lesser dilution and risk instrumentation contamination and sample carry over. When samples such as blind duplicates were analyzed the laboratory started at a 10 times dilution and ran additional higher dilutions if needed.

The laboratory is proposing sample dilutions for each highly contaminated sample at a level which would put the major constituent at 5 times over the calibration range in addition to a method compliant analytical run within the calibration range of the instrument. This will provide lower reporting limits as well as SW-846 method compliant data. The laboratory will run system blanks after each sample ran at lower dilution level in order to prevent cross contamination of samples and remove system contamination. Additionally the laboratory is developing a Selective Ion Monitoring method for identified constituents of concern in order to attain lower reporting limits on dilutions for these compounds.

Sincerely,

Cheryl Johnson
Quality Manager
Pace Analytical Services – Huntersville

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

December 22, 2015

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on December 10, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

This report was revised 12/22/15 to change all reporting units to mg/L per client request.

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

Sincerely,

Nicole Gasiorowski

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

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(704)875-9092

CERTIFICATIONS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92279275001	**AMW-7**	Water	12/08/15 14:50	12/10/15 09:45
92279275002	**AMW-4**	Water	12/08/15 16:15	12/10/15 09:45
92279275003	**AMW-19**	Water	12/08/15 16:20	12/10/15 09:45
92279275004	**AMW-18**	Water	12/09/15 10:30	12/10/15 09:45
92279275005	**AMW-5**	Water	12/09/15 11:30	12/10/15 09:45
92279275006	**AMW-15**	Water	12/09/15 10:15	12/10/15 09:45
92279275007	**OBG-W4**	Water	12/09/15 13:25	12/10/15 09:45
92279275008	**AMW-8**	Water	12/09/15 14:25	12/10/15 09:45
92279275009	**AMW-6**	Water	12/09/15 15:15	12/10/15 09:45
92279275010	**TRIP BLANK**	Water	12/09/15 07:00	12/10/15 09:45
92279275011	**DMW-14D**	Water	12/08/15 10:50	12/10/15 09:45
92279275012	**DMW-15**	Water	12/08/15 10:50	12/10/15 09:45

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SAMPLE ANALYTE COUNT

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92279275001	**AMW-7**	EPA 8260	NB	12
		EPA 8260B Mod.	DLK	3
92279275002	**AMW-4**	EPA 8260	NB	12
		EPA 8260B Mod.	DLK	3
92279275003	**AMW-19**	EPA 8260	NB	12
		EPA 8260B Mod.	DLK	3
92279275004	**AMW-18**	EPA 8260	NB	12
		EPA 8260B Mod.	DLK	3
92279275005	**AMW-5**	EPA 8260	NB	12
		EPA 8260B Mod.	DLK	3
92279275006	**AMW-15**	EPA 8260	NB	12
		EPA 8260B Mod.	DLK	3
92279275007	**OBG-W4**	EPA 8260	NB	12
		EPA 8260B Mod.	DLK	3
92279275008	**AMW-8**	EPA 6010	CDF	7
		EPA 7470	HVK	1
		EPA 8260	NB	12
		EPA 8260B Mod.	DLK	3
92279275009	**AMW-6**	EPA 8260	NB	12
		EPA 8260B Mod.	DLK	3
92279275010	**TRIP BLANK**	EPA 8260	NB	12
92279275011	**DMW-14D**	EPA 8260	NB	12
		EPA 8260B Mod.	DLK	3
92279275012	**DMW-15**	EPA 8260	NB	12
		EPA 8260B Mod.	DLK	3

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

Sample: AMW-7 **Lab ID: 92279275001** Collected: 12/08/15 14:50 Received: 12/10/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/17/15 07:43	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/17/15 07:43	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/17/15 07:43	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		12/17/15 07:43	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/17/15 07:43	156-60-5	
Tetrachloroethene	**0.024**	mg/L	0.0010	0.00046	1		12/17/15 07:43	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/17/15 07:43	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/17/15 07:43	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/17/15 07:43	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		12/17/15 07:43	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		12/17/15 07:43	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		12/17/15 07:43	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/16/15 16:48	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	100	%	50-150		1		12/16/15 16:48	17060-07-0	
Toluene-d8 (S)	93	%	50-150		1		12/16/15 16:48	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

Sample: AMW-4 **Lab ID: 92279275002** Collected: 12/08/15 16:15 Received: 12/10/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/20/15 01:51	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/20/15 01:51	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/20/15 01:51	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		12/20/15 01:51	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/20/15 01:51	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		12/20/15 01:51	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/20/15 01:51	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/20/15 01:51	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/20/15 01:51	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	111	%	70-130		1		12/20/15 01:51	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		12/20/15 01:51	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/20/15 01:51	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/16/15 17:09	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%	50-150		1		12/16/15 17:09	17060-07-0	
Toluene-d8 (S)	91	%	50-150		1		12/16/15 17:09	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

Sample: AMW-19 **Lab ID: 92279275003** Collected: 12/08/15 16:20 Received: 12/10/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/15/15 23:14	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/15/15 23:14	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/15/15 23:14	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		12/15/15 23:14	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/15/15 23:14	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		12/15/15 23:14	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/15/15 23:14	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/15/15 23:14	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/15/15 23:14	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		12/15/15 23:14	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		12/15/15 23:14	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/15/15 23:14	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/16/15 17:29	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%	50-150		1		12/16/15 17:29	17060-07-0	
Toluene-d8 (S)	92	%	50-150		1		12/16/15 17:29	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

Sample: AMW-18 **Lab ID: 92279275004** Collected: 12/09/15 10:30 Received: 12/10/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/15/15 23:31	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/15/15 23:31	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/15/15 23:31	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		12/15/15 23:31	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/15/15 23:31	156-60-5	
Tetrachloroethene	**0.0016**	mg/L	0.0010	0.00046	1		12/15/15 23:31	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/15/15 23:31	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/15/15 23:31	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/15/15 23:31	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		12/15/15 23:31	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		12/15/15 23:31	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/15/15 23:31	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/16/15 18:30	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%	50-150		1		12/16/15 18:30	17060-07-0	
Toluene-d8 (S)	92	%	50-150		1		12/16/15 18:30	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

Sample: AMW-5 **Lab ID: 92279275005** Collected: 12/09/15 11:30 Received: 12/10/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0025	0.00080	2.5		12/17/15 15:41	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0025	0.00060	2.5		12/17/15 15:41	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0025	0.0014	2.5		12/17/15 15:41	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0025	0.00048	2.5		12/17/15 15:41	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0025	0.0012	2.5		12/17/15 15:41	156-60-5	
Tetrachloroethene	**0.48**	mg/L	0.0050	0.0023	5		12/18/15 11:21	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0025	0.0012	2.5		12/17/15 15:41	71-55-6	
Trichloroethene	ND	mg/L	0.0025	0.0012	2.5		12/17/15 15:41	79-01-6	
Vinyl chloride	ND	mg/L	0.0025	0.0016	2.5		12/17/15 15:41	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		2.5		12/17/15 15:41	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		2.5		12/17/15 15:41	17060-07-0	
Toluene-d8 (S)	98	%	70-130		2.5		12/17/15 15:41	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.0025**	mg/L	0.0020	0.0019	1		12/16/15 18:51	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%	50-150		1		12/16/15 18:51	17060-07-0	
Toluene-d8 (S)	92	%	50-150		1		12/16/15 18:51	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

Sample: AMW-15 **Lab ID: 92279275006** Collected: 12/09/15 10:15 Received: 12/10/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/17/15 11:08	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/17/15 11:08	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/17/15 11:08	75-35-4	
cis-1,2-Dichloroethene	**0.026**	mg/L	0.0010	0.00019	1		12/17/15 11:08	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/17/15 11:08	156-60-5	
Tetrachloroethene	**0.20**	mg/L	0.0025	0.0012	2.5		12/18/15 10:47	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/17/15 11:08	71-55-6	
Trichloroethene	**0.013**	mg/L	0.0010	0.00047	1		12/17/15 11:08	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/17/15 11:08	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		12/17/15 11:08	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		12/17/15 11:08	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/17/15 11:08	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/16/15 19:11	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%	50-150		1		12/16/15 19:11	17060-07-0	
Toluene-d8 (S)	89	%	50-150		1		12/16/15 19:11	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

Sample: OBG-W4 **Lab ID: 92279275007** Collected: 12/09/15 13:25 Received: 12/10/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/16/15 00:05	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/16/15 00:05	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/16/15 00:05	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		12/16/15 00:05	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/16/15 00:05	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		12/16/15 00:05	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/16/15 00:05	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/16/15 00:05	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/16/15 00:05	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		12/16/15 00:05	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		12/16/15 00:05	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/16/15 00:05	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/16/15 19:31	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%	50-150		1		12/16/15 19:31	17060-07-0	
Toluene-d8 (S)	88	%	50-150		1		12/16/15 19:31	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

Sample: AMW-8 **Lab ID: 92279275008** Collected: 12/09/15 14:25 Received: 12/10/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A								
Arsenic	ND	mg/L	0.010	0.0050	1	12/11/15 20:00	12/14/15 17:19	7440-38-2	
Barium	**0.18**	mg/L	0.0050	0.0025	1	12/11/15 20:00	12/14/15 17:19	7440-39-3	
Cadmium	ND	mg/L	0.0010	0.00050	1	12/11/15 20:00	12/14/15 17:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0025	1	12/11/15 20:00	12/15/15 18:04	7440-47-3	
Lead	ND	mg/L	0.0050	0.0025	1	12/11/15 20:00	12/14/15 17:19	7439-92-1	
Selenium	ND	mg/L	0.010	0.0050	1	12/11/15 20:00	12/14/15 17:19	7782-49-2	
Silver	ND	mg/L	0.0050	0.0025	1	12/11/15 20:00	12/15/15 18:04	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	mg/L	0.00020	0.00010	1	12/17/15 14:05	12/17/15 17:47	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.10	0.032	100		12/17/15 15:24	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.10	0.024	100		12/17/15 15:24	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.10	0.056	100		12/17/15 15:24	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.10	0.019	100		12/17/15 15:24	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.10	0.049	100		12/17/15 15:24	156-60-5	
Tetrachloroethene	**13.6**	mg/L	0.10	0.046	100		12/17/15 15:24	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.10	0.048	100		12/17/15 15:24	71-55-6	
Trichloroethene	ND	mg/L	0.10	0.047	100		12/17/15 15:24	79-01-6	
Vinyl chloride	ND	mg/L	0.10	0.062	100		12/17/15 15:24	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		100		12/17/15 15:24	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		100		12/17/15 15:24	17060-07-0	
Toluene-d8 (S)	101	%	70-130		100		12/17/15 15:24	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.0049**	mg/L	0.0020	0.0019	1		12/16/15 19:52	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%	50-150		1		12/16/15 19:52	17060-07-0	
Toluene-d8 (S)	93	%	50-150		1		12/16/15 19:52	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

Sample: AMW-6 **Lab ID: 92279275009** Collected: 12/09/15 15:15 Received: 12/10/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/17/15 11:59	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/17/15 11:59	107-06-2	
1,1-Dichloroethene	**0.0034**	mg/L	0.0010	0.00056	1		12/17/15 11:59	75-35-4	
cis-1,2-Dichloroethene	**0.0024**	mg/L	0.0010	0.00019	1		12/17/15 11:59	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/17/15 11:59	156-60-5	
Tetrachloroethene	**0.35**	mg/L	0.0010	0.00046	1		12/17/15 11:59	127-18-4	E
1,1,1-Trichloroethane	**0.0069**	mg/L	0.0010	0.00048	1		12/17/15 11:59	71-55-6	
Trichloroethene	**0.0038**	mg/L	0.0010	0.00047	1		12/17/15 11:59	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/17/15 11:59	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		12/17/15 11:59	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		12/17/15 11:59	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		12/17/15 11:59	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/16/15 20:12	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%	50-150		1		12/16/15 20:12	17060-07-0	
Toluene-d8 (S)	91	%	50-150		1		12/16/15 20:12	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

Sample: TRIP BLANK **Lab ID: 92279275010** Collected: 12/09/15 07:00 Received: 12/10/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/15/15 19:15	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/15/15 19:15	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/15/15 19:15	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		12/15/15 19:15	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/15/15 19:15	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		12/15/15 19:15	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/15/15 19:15	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/15/15 19:15	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/15/15 19:15	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		12/15/15 19:15	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		12/15/15 19:15	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/15/15 19:15	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

Sample: DMW-14D **Lab ID: 92279275011** Collected: 12/08/15 10:50 Received: 12/10/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/17/15 08:00	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/17/15 08:00	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/17/15 08:00	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		12/17/15 08:00	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/17/15 08:00	156-60-5	
Tetrachloroethene	**0.00073J**	mg/L	0.0010	0.00046	1		12/17/15 08:00	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/17/15 08:00	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/17/15 08:00	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/17/15 08:00	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		12/17/15 08:00	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		12/17/15 08:00	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		12/17/15 08:00	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/16/15 20:32	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	106	%	50-150		1		12/16/15 20:32	17060-07-0	
Toluene-d8 (S)	91	%	50-150		1		12/16/15 20:32	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

Sample: DMW-15 **Lab ID: 92279275012** Collected: 12/08/15 10:50 Received: 12/10/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/17/15 11:25	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/17/15 11:25	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/17/15 11:25	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		12/17/15 11:25	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/17/15 11:25	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		12/17/15 11:25	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/17/15 11:25	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/17/15 11:25	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/17/15 11:25	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		12/17/15 11:25	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		12/17/15 11:25	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/17/15 11:25	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/16/15 20:52	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	105	%	50-150		1		12/16/15 20:52	17060-07-0	
Toluene-d8 (S)	92	%	50-150		1		12/16/15 20:52	2037-26-5	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

QC Batch: MERP/8788
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 92279275008

METHOD BLANK: 1629746
Matrix: Water
Associated Lab Samples: 92279275008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00010	12/17/15 17:42	

LABORATORY CONTROL SAMPLE: 1629747

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1629748 1629749

Parameter	Units	92279275008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	.0025	.0025	0.0024	0.0025	96	99	75-125	3	25	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

QC Batch: MPRP/20257
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 92279275008

METHOD BLANK: 1627193
Matrix: Water
Associated Lab Samples: 92279275008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.010	0.0050	12/14/15 16:12	
Barium	mg/L	ND	0.0050	0.0025	12/14/15 16:12	
Cadmium	mg/L	ND	0.0010	0.00050	12/14/15 16:12	
Chromium	mg/L	ND	0.0050	0.0025	12/15/15 17:11	
Lead	mg/L	ND	0.0050	0.0025	12/14/15 16:12	
Selenium	mg/L	ND	0.010	0.0050	12/14/15 16:12	
Silver	mg/L	ND	0.0050	0.0025	12/15/15 17:11	

LABORATORY CONTROL SAMPLE: 1627194

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	.5	0.45	90	80-120	
Barium	mg/L	.5	0.49	98	80-120	
Cadmium	mg/L	.5	0.48	96	80-120	
Chromium	mg/L	.5	0.48	96	80-120	
Lead	mg/L	.5	0.47	94	80-120	
Selenium	mg/L	.5	0.47	93	80-120	
Silver	mg/L	.25	0.25	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1627195 1627196

Parameter	Units	92279212003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	.5	.5	0.55	0.49	110	98	75-125	11	20	
Barium	mg/L	111 ug/L	.5	.5	0.64	0.59	106	95	75-125	9	20	
Cadmium	mg/L	ND	.5	.5	0.54	0.48	107	96	75-125	11	20	
Chromium	mg/L	ND	.5	.5	0.52	0.47	104	94	75-125	11	20	
Lead	mg/L	ND	.5	.5	0.48	0.43	96	86	75-125	10	20	
Selenium	mg/L	ND	.5	.5	0.54	0.48	107	96	75-125	11	20	
Silver	mg/L	ND	.25	.25	0.29	0.26	114	102	75-125	11	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

QC Batch: MSV/34717 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92279275010

METHOD BLANK: 1629439 Matrix: Water
Associated Lab Samples: 92279275010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/15/15 16:42	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/15/15 16:42	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/15/15 16:42	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/15/15 16:42	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/15/15 16:42	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/15/15 16:42	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/15/15 16:42	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/15/15 16:42	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/15/15 16:42	
1,2-Dichloroethane-d4 (S)	%	105	70-130		12/15/15 16:42	
4-Bromofluorobenzene (S)	%	105	70-130		12/15/15 16:42	
Toluene-d8 (S)	%	102	70-130		12/15/15 16:42	

LABORATORY CONTROL SAMPLE: 1629440

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.054	107	70-130	
1,1-Dichloroethane	mg/L	.05	0.049	99	70-130	
1,1-Dichloroethene	mg/L	.05	0.054	109	70-132	
1,2-Dichloroethane	mg/L	.05	0.048	96	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.049	98	70-131	
Tetrachloroethene	mg/L	.05	0.048	97	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.051	103	70-130	
Trichloroethene	mg/L	.05	0.049	97	70-130	
Vinyl chloride	mg/L	.05	0.058	116	50-150	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			99	70-130	

SAMPLE DUPLICATE: 1629442

Parameter	Units	92279569001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

SAMPLE DUPLICATE: 1629442

Parameter	Units	92279569001 Result	Dup Result	RPD	Max RPD	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	104	107	2		
4-Bromofluorobenzene (S)	%	104	104	0		
Toluene-d8 (S)	%	100	101	1		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

QC Batch: MSV/34718 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92279275003, 92279275004, 92279275007

METHOD BLANK: 1629455 Matrix: Water
Associated Lab Samples: 92279275003, 92279275004, 92279275007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/15/15 16:59	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/15/15 16:59	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/15/15 16:59	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/15/15 16:59	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/15/15 16:59	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/15/15 16:59	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/15/15 16:59	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/15/15 16:59	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/15/15 16:59	
1,2-Dichloroethane-d4 (S)	%	106	70-130		12/15/15 16:59	
4-Bromofluorobenzene (S)	%	101	70-130		12/15/15 16:59	
Toluene-d8 (S)	%	103	70-130		12/15/15 16:59	

LABORATORY CONTROL SAMPLE: 1629456

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.052	105	70-130	
1,1-Dichloroethane	mg/L	.05	0.049	98	70-130	
1,1-Dichloroethene	mg/L	.05	0.053	105	70-132	
1,2-Dichloroethane	mg/L	.05	0.046	92	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.048	96	70-131	
Tetrachloroethene	mg/L	.05	0.049	98	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.051	101	70-130	
Trichloroethene	mg/L	.05	0.051	102	70-130	
Vinyl chloride	mg/L	.05	0.057	113	50-150	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			108	70-130	
Toluene-d8 (S)	%			101	70-130	

SAMPLE DUPLICATE: 1629458

Parameter	Units	92279275004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	0.0016	0.0015	6	30	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

SAMPLE DUPLICATE: 1629458

Parameter	Units	92279275004 Result	Dup Result	RPD	Max RPD	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	100	101	1		
4-Bromofluorobenzene (S)	%	107	105	2		
Toluene-d8 (S)	%	102	102	0		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

QC Batch: MSV/34745 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92279275001, 92279275011

METHOD BLANK: 1630850 Matrix: Water
Associated Lab Samples: 92279275001, 92279275011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/16/15 22:18	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/16/15 22:18	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/16/15 22:18	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/16/15 22:18	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/16/15 22:18	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/16/15 22:18	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/16/15 22:18	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/16/15 22:18	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/16/15 22:18	
1,2-Dichloroethane-d4 (S)	%	97	70-130		12/16/15 22:18	
4-Bromofluorobenzene (S)	%	101	70-130		12/16/15 22:18	
Toluene-d8 (S)	%	100	70-130		12/16/15 22:18	

LABORATORY CONTROL SAMPLE: 1630851

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.048	95	70-130	
1,1-Dichloroethane	mg/L	.05	0.044	88	70-130	
1,1-Dichloroethene	mg/L	.05	0.046	93	70-132	
1,2-Dichloroethane	mg/L	.05	0.043	87	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.045	89	70-131	
Tetrachloroethene	mg/L	.05	0.046	91	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.045	91	70-130	
Trichloroethene	mg/L	.05	0.047	95	70-130	
Vinyl chloride	mg/L	.05	0.050	100	50-150	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1630852

Parameter	Units	92279588008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.024	118	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.021	106	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.023	114	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.020	102	70-130	
cis-1,2-Dichloroethene	mg/L	ND	.02	0.021	106	70-130	
Tetrachloroethene	mg/L	ND	.02	0.020	101	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

MATRIX SPIKE SAMPLE: 1630852

Parameter	Units	92279588008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.022	108	70-130	
Trichloroethene	mg/L	ND	.02	0.021	107	69-151	
Vinyl chloride	mg/L	ND	.02	0.024	118	70-130	
1,2-Dichloroethane-d4 (S)	%				102	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 1630853

Parameter	Units	92279588009 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	1.3 ug/L	0.0013	0	30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	102	103	1		
4-Bromofluorobenzene (S)	%	102	105	3		
Toluene-d8 (S)	%	101	100	1		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

QC Batch: MSV/34748 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92279275005, 92279275006, 92279275008, 92279275009, 92279275012

METHOD BLANK: 1631141 Matrix: Water
Associated Lab Samples: 92279275005, 92279275006, 92279275008, 92279275009, 92279275012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/17/15 10:16	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/17/15 10:16	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/17/15 10:16	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/17/15 10:16	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/17/15 10:16	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/17/15 10:16	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/17/15 10:16	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/17/15 10:16	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/17/15 10:16	
1,2-Dichloroethane-d4 (S)	%	101	70-130		12/17/15 10:16	
4-Bromofluorobenzene (S)	%	103	70-130		12/17/15 10:16	
Toluene-d8 (S)	%	100	70-130		12/17/15 10:16	

LABORATORY CONTROL SAMPLE: 1631142

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.050	99	70-130	
1,1-Dichloroethane	mg/L	.05	0.046	92	70-130	
1,1-Dichloroethene	mg/L	.05	0.049	97	70-132	
1,2-Dichloroethane	mg/L	.05	0.045	91	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.047	94	70-131	
Tetrachloroethene	mg/L	.05	0.046	91	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.047	94	70-130	
Trichloroethene	mg/L	.05	0.047	95	70-130	
Vinyl chloride	mg/L	.05	0.051	101	50-150	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1631143

Parameter	Units	92279275006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.024	122	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.022	111	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.024	119	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.022	109	70-130	
cis-1,2-Dichloroethene	mg/L	0.026	.02	0.048	110	70-130	
trans-1,2-Dichloroethene	mg/L	ND	.02	0.023	115	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

MATRIX SPIKE SAMPLE: 1631143

Parameter	Units	92279275006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Trichloroethene	mg/L	0.013	.02	0.036	113	69-151	
Vinyl chloride	mg/L	ND	.02	0.025	123	70-130	
1,2-Dichloroethane-d4 (S)	%				108	70-130	
4-Bromofluorobenzene (S)	%				103	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1631144

Parameter	Units	92279275012 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	101	101	0		
4-Bromofluorobenzene (S)	%	102	103	1		
Toluene-d8 (S)	%	100	100	0		

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

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

QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

QC Batch: MSV/34805 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92279275002

METHOD BLANK: 1633929 Matrix: Water
Associated Lab Samples: 92279275002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/20/15 01:17	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/20/15 01:17	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/20/15 01:17	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/20/15 01:17	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/20/15 01:17	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/20/15 01:17	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/20/15 01:17	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/20/15 01:17	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/20/15 01:17	
1,2-Dichloroethane-d4 (S)	%	108	70-130		12/20/15 01:17	
4-Bromofluorobenzene (S)	%	112	70-130		12/20/15 01:17	
Toluene-d8 (S)	%	101	70-130		12/20/15 01:17	

LABORATORY CONTROL SAMPLE: 1633930

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.053	107	70-130	
1,1-Dichloroethane	mg/L	.05	0.043	86	70-130	
1,1-Dichloroethene	mg/L	.05	0.046	92	70-132	
1,2-Dichloroethane	mg/L	.05	0.051	103	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.045	90	70-131	
Tetrachloroethene	mg/L	.05	0.046	93	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.044	88	70-130	
Trichloroethene	mg/L	.05	0.048	96	70-130	
Vinyl chloride	mg/L	.05	0.045	89	50-150	
1,2-Dichloroethane-d4 (S)	%			109	70-130	
4-Bromofluorobenzene (S)	%			116	70-130	
Toluene-d8 (S)	%			100	70-130	

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

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

QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

QC Batch: MSV/34741 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92279275001, 92279275002, 92279275003, 92279275004, 92279275005, 92279275006, 92279275007, 92279275008, 92279275009, 92279275011, 92279275012

METHOD BLANK: 1630721 Matrix: Water
Associated Lab Samples: 92279275001, 92279275002, 92279275003, 92279275004, 92279275005, 92279275006, 92279275007, 92279275008, 92279275009, 92279275011, 92279275012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	0.0019	12/16/15 16:28	
1,2-Dichloroethane-d4 (S)	%	100	50-150		12/16/15 16:28	
Toluene-d8 (S)	%	90	50-150		12/16/15 16:28	

LABORATORY CONTROL SAMPLE: 1630722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.018	88	71-125	
1,2-Dichloroethane-d4 (S)	%			98	50-150	
Toluene-d8 (S)	%			94	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1630723 1630724

Parameter	Units	92279275003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	mg/L	ND	.02	.02	0.017	0.018	86	91	50-150	6	30	
1,2-Dichloroethane-d4 (S)	%						103	101	50-150		150	
Toluene-d8 (S)	%						89	89	50-150		150	

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

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

QUALIFIERS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279275

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92279275008	**AMW-8**	EPA 3010A	MPRP/20257	EPA 6010	ICP/18280
92279275008	**AMW-8**	EPA 7470	MERP/8788	EPA 7470	MERC/8442
92279275001	**AMW-7**	EPA 8260	MSV/34745		
92279275002	**AMW-4**	EPA 8260	MSV/34805		
92279275003	**AMW-19**	EPA 8260	MSV/34718		
92279275004	**AMW-18**	EPA 8260	MSV/34718		
92279275005	**AMW-5**	EPA 8260	MSV/34748		
92279275006	**AMW-15**	EPA 8260	MSV/34748		
92279275007	**OBG-W4**	EPA 8260	MSV/34718		
92279275008	**AMW-8**	EPA 8260	MSV/34748		
92279275009	**AMW-6**	EPA 8260	MSV/34748		
92279275010	**TRIP BLANK**	EPA 8260	MSV/34717		
92279275011	**DMW-14D**	EPA 8260	MSV/34745		
92279275012	**DMW-15**	EPA 8260	MSV/34748		
92279275001	**AMW-7**	EPA 8260B Mod.	MSV/34741		
92279275002	**AMW-4**	EPA 8260B Mod.	MSV/34741		
92279275003	**AMW-19**	EPA 8260B Mod.	MSV/34741		
92279275004	**AMW-18**	EPA 8260B Mod.	MSV/34741		
92279275005	**AMW-5**	EPA 8260B Mod.	MSV/34741		
92279275006	**AMW-15**	EPA 8260B Mod.	MSV/34741		
92279275007	**OBG-W4**	EPA 8260B Mod.	MSV/34741		
92279275008	**AMW-8**	EPA 8260B Mod.	MSV/34741		
92279275009	**AMW-6**	EPA 8260B Mod.	MSV/34741		
92279275011	**DMW-14D**	EPA 8260B Mod.	MSV/34741		
92279275012	**DMW-15**	EPA 8260B Mod.	MSV/34741		

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Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: November 17, 2015 Page 1 of 2*
	Document Number: **F-CHR-CS-003-rev.16.1**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Earthcon

* Page 2 of 2 is for Internal Use Only

Courier: ☐ Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

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

Thermometer Used: IR Gun T1505 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor No Correction

Corrected Cooler Temp.: 4.3 °C Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: 12-10-15 KW

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☐No ☑N/A	6.
Rush Turn Around Time Requested:	☐Yes ☐No ☑N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8. 12-10-15
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. COC samp we have AMW 14 but bottle says AMW-4
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16. 12-10-15
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	12-10-15
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Kristen Rivera Date/Time: 12/10/15

Comments/ Resolution: Log-in sample as "AMW-4" per sample label.

SCURF Review:	NMG	Date:	12-10-15
SRF Review:	NMG	Date:	12-12-15

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# : 92279275

92279275

(If no label available)

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of 1995921

Section A Required Client Information:

Company: Earthcon
Address: 1880 West Oak Pkwy
Marietta, GA 30062
Email To: Krivera@earthcon.com
Phone: 770-973-2100 Fax: 770-973-7395
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Kristen Rivera
Copy To:
Purchase Order No.:
Project Name: AMC Dalton
Project Number: 02.20140392.00

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 7457-1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N: VOC, 8260B	1,4 Dioxane	RCRA Metals (6010B/7470)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92279275
1	AMW-7	WT	G			12/09/15	1450		6				6					3	3			001
2	AMW-14	WT	G			12/09/15	1615		6				6					3	3			002
3	AMW-19	WT	G			12/09/15	1620		6				6					3	3			003
4	AMW-18	WT	G			12/09/15	1030		6				6					3	3			004
5	AMW-5	WT	G			12/09/15	1130		6				6					3	3			005
6	AMW-15	WT	G			12/09/15	1015		6				6					3	3			006
7	OBG-W4	WT	G			12/09/15	1325		6				6					3	3			007
8	AMW-8	WT	G			12/09/15	1425		6			1	6					3	3	1		008
9	AMW-6	WT	G			12/14/15	1515		6				6					3	3			009
10	Trip Blank	WT	RA			12/09/15	0700		2				2					2				010
11																						
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)
	[signature] Earthcon	12/14/15	1610	B Petit	12/9	1610				
				Kreg Wood Pace HVL	12/10/15	945	2/3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kenlin Heyn
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 12/14/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of 1995930

Section A Required Client Information:

Company: Earthcon
Address: 1880 W. Oak Pkwy
Marietta, GA 30062
Email To: krivera@earthcon.com
Phone: 770-973-2100 Fax: 770-973-7395
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Kristen Rivera
Copy To:
Purchase Order No.:
Project Name:
Project Number: 02.2040392.00

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N: VOC 8260B	1,4 Dioxane	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92279275
1	DMW-14D	WT	G			12/07/15	1050		6				6					3	3		011
2	DMW-15	WT	G			12/08/15	1050		6				6					3	3		012
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
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)
	Kristen Rivera Earthcon	12/9/15	1610	B. Pettit	12-9	1610				
				Received per HVL	12/10/15	9:45	4.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kristen Rivera

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/9/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

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

December 29, 2015

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on December 11, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

Revised to change units.

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

Sincerely,

Nicole Gasiorowski

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

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

CERTIFICATIONS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

Greenwood Certification IDs

816 Durst Avenue East, Greenwood, SC 29649
South Carolina Laboratory ID #: 24562
North Carolina Divison of Water Resources Certification number 25
Florida Certification number E87633
Virginia VELAP ID: 460250
Asbestos NVLAP accreditation: 101410-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92279472001	**OBG-W5**	Water	12/09/15 16:45	12/11/15 09:45
92279472002	**AMW-10**	Water	12/09/15 16:50	12/11/15 09:45
92279472003	**AMW-3**	Water	12/10/15 09:45	12/11/15 09:45
92279472004	**ARW-1**	Water	12/10/15 11:40	12/11/15 09:45
92279472005	**DUP-1**	Water	12/10/15 00:00	12/11/15 09:45
92279472006	**AMW-1**	Water	12/10/15 12:55	12/11/15 09:45
92279472007	**AMW-16**	Water	12/10/15 09:30	12/11/15 09:45
92279472008	**DUP #2**	Water	12/10/15 00:00	12/11/15 09:45
92279472009	**DMW-12**	Water	12/10/15 14:30	12/11/15 09:45
92279472010	**TRIP BLANK**	Water	12/09/15 00:00	12/11/15 09:45
92279472011	**MW-22D**	Water	12/10/15 15:35	12/11/15 09:45

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SAMPLE ANALYTE COUNT

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92279472001	**OBG-W5**	EPA 8260	NB	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92279472002	**AMW-10**	EPA 6010	CDF	7	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	NB	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92279472003	**AMW-3**	EPA 8260	NB	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92279472004	**ARW-1**	EPA 6010	CDF	7	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	NB	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92279472005	**DUP-1**	EPA 8260	GAW	12	PASI-C
92279472006	**AMW-1**	EPA 8260	NB	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92279472007	**AMW-16**	EPA 8260	NB	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92279472008	**DUP #2**	EPA 8260	NB	12	PASI-C
92279472009	**DMW-12**	EPA 8260	GAW	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92279472010	**TRIP BLANK**	EPA 8260	NB	12	PASI-C
92279472011	**MW-22D**	RSK 175	DR1	3	PASI-M
		EPA 300.0	CDC	2	PASI-G
		EPA 300.0	CDC	2	PASI-W
		EPA 8260	NB	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 4500-S2D	SAM	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	MDW	1	PASI-A

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

Sample: OBG-W5 **Lab ID: 92279472001** Collected: 12/09/15 16:45 Received: 12/11/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.050	0.016	50		12/19/15 09:36	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.050	0.012	50		12/19/15 09:36	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.050	0.028	50		12/19/15 09:36	75-35-4	
cis-1,2-Dichloroethene	**0.14**	mg/L	0.050	0.0095	50		12/19/15 09:36	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.050	0.024	50		12/19/15 09:36	156-60-5	
Tetrachloroethene	**4.2**	mg/L	0.050	0.023	50		12/19/15 09:36	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.050	0.024	50		12/19/15 09:36	71-55-6	
Trichloroethene	**0.072**	mg/L	0.050	0.024	50		12/19/15 09:36	79-01-6	
Vinyl chloride	ND	mg/L	0.050	0.031	50		12/19/15 09:36	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	112	%	70-130		50		12/19/15 09:36	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		50		12/19/15 09:36	17060-07-0	
Toluene-d8 (S)	99	%	70-130		50		12/19/15 09:36	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/16/15 05:42	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	96	%	50-150		1		12/16/15 05:42	17060-07-0	
Toluene-d8 (S)	95	%	50-150		1		12/16/15 05:42	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

Sample: AMW-10 **Lab ID: 92279472002** Collected: 12/09/15 16:50 Received: 12/11/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A								
Arsenic	ND	mg/L	0.010	0.0050	1	12/14/15 23:00	12/16/15 05:33	7440-38-2	
Barium	**0.11**	mg/L	0.0050	0.0025	1	12/14/15 23:00	12/16/15 05:33	7440-39-3	
Cadmium	ND	mg/L	0.0010	0.00050	1	12/14/15 23:00	12/16/15 05:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0025	1	12/14/15 23:00	12/16/15 05:33	7440-47-3	
Lead	ND	mg/L	0.0050	0.0025	1	12/14/15 23:00	12/16/15 05:33	7439-92-1	
Selenium	ND	mg/L	0.010	0.0050	1	12/14/15 23:00	12/16/15 05:33	7782-49-2	
Silver	ND	mg/L	0.0050	0.0025	1	12/14/15 23:00	12/16/15 05:33	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	mg/L	0.00020	0.00010	1	12/17/15 14:05	12/17/15 18:03	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.25	0.080	250		12/19/15 09:18	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.25	0.060	250		12/19/15 09:18	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.25	0.14	250		12/19/15 09:18	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.25	0.048	250		12/19/15 09:18	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.25	0.12	250		12/19/15 09:18	156-60-5	
Tetrachloroethene	**22.6**	mg/L	0.25	0.12	250		12/19/15 09:18	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.25	0.12	250		12/19/15 09:18	71-55-6	
Trichloroethene	ND	mg/L	0.25	0.12	250		12/19/15 09:18	79-01-6	
Vinyl chloride	ND	mg/L	0.25	0.16	250		12/19/15 09:18	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	111	%	70-130		250		12/19/15 09:18	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		250		12/19/15 09:18	17060-07-0	
Toluene-d8 (S)	101	%	70-130		250		12/19/15 09:18	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.0041**	mg/L	0.0020	0.0019	1		12/16/15 21:13	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%	50-150		1		12/16/15 21:13	17060-07-0	
Toluene-d8 (S)	94	%	50-150		1		12/16/15 21:13	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

Sample: AMW-3 **Lab ID: 92279472003** Collected: 12/10/15 09:45 Received: 12/11/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.25	0.080	250		12/19/15 09:01	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.25	0.060	250		12/19/15 09:01	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.25	0.14	250		12/19/15 09:01	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.25	0.048	250		12/19/15 09:01	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.25	0.12	250		12/19/15 09:01	156-60-5	
Tetrachloroethene	**27.2**	mg/L	0.25	0.12	250		12/19/15 09:01	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.25	0.12	250		12/19/15 09:01	71-55-6	
Trichloroethene	ND	mg/L	0.25	0.12	250		12/19/15 09:01	79-01-6	
Vinyl chloride	ND	mg/L	0.25	0.16	250		12/19/15 09:01	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		250		12/19/15 09:01	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		250		12/19/15 09:01	17060-07-0	
Toluene-d8 (S)	99	%	70-130		250		12/19/15 09:01	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/16/15 21:33	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	100	%	50-150		1		12/16/15 21:33	17060-07-0	
Toluene-d8 (S)	94	%	50-150		1		12/16/15 21:33	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

Sample: ARW-1 **Lab ID: 92279472004** Collected: 12/10/15 11:40 Received: 12/11/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A								
Arsenic	ND	mg/L	0.010	0.0050	1	12/14/15 23:00	12/16/15 05:37	7440-38-2	
Barium	**0.30**	mg/L	0.0050	0.0025	1	12/14/15 23:00	12/16/15 05:37	7440-39-3	
Cadmium	ND	mg/L	0.0010	0.00050	1	12/14/15 23:00	12/16/15 05:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0025	1	12/14/15 23:00	12/16/15 05:37	7440-47-3	
Lead	ND	mg/L	0.0050	0.0025	1	12/14/15 23:00	12/16/15 05:37	7439-92-1	
Selenium	ND	mg/L	0.010	0.0050	1	12/14/15 23:00	12/16/15 05:37	7782-49-2	
Silver	ND	mg/L	0.0050	0.0025	1	12/14/15 23:00	12/16/15 05:37	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	mg/L	0.00020	0.00010	1	12/17/15 14:05	12/17/15 18:11	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.40	0.13	400		12/19/15 17:01	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.40	0.096	400		12/19/15 17:01	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.40	0.22	400		12/19/15 17:01	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.40	0.076	400		12/19/15 17:01	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.40	0.20	400		12/19/15 17:01	156-60-5	
Tetrachloroethene	**36.0**	mg/L	0.40	0.18	400		12/19/15 17:01	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.40	0.19	400		12/19/15 17:01	71-55-6	
Trichloroethene	**0.35J**	mg/L	0.40	0.19	400		12/19/15 17:01	79-01-6	
Vinyl chloride	ND	mg/L	0.40	0.25	400		12/19/15 17:01	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	113	%	70-130		400		12/19/15 17:01	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130		400		12/19/15 17:01	17060-07-0	
Toluene-d8 (S)	99	%	70-130		400		12/19/15 17:01	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.0027**	mg/L	0.0020	0.0019	1		12/16/15 06:03	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	97	%	50-150		1		12/16/15 06:03	17060-07-0	
Toluene-d8 (S)	95	%	50-150		1		12/16/15 06:03	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

Sample: DUP-1 **Lab ID: 92279472005** Collected: 12/10/15 00:00 Received: 12/11/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.25	0.080	250		12/22/15 07:03	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.25	0.060	250		12/22/15 07:03	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.25	0.14	250		12/22/15 07:03	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.25	0.048	250		12/22/15 07:03	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.25	0.12	250		12/22/15 07:03	156-60-5	
Tetrachloroethene	**23.3**	mg/L	0.25	0.12	250		12/22/15 07:03	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.25	0.12	250		12/22/15 07:03	71-55-6	
Trichloroethene	ND	mg/L	0.25	0.12	250		12/22/15 07:03	79-01-6	
Vinyl chloride	ND	mg/L	0.25	0.16	250		12/22/15 07:03	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		250		12/22/15 07:03	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		250		12/22/15 07:03	17060-07-0	
Toluene-d8 (S)	102	%	70-130		250		12/22/15 07:03	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

Sample: AMW-1 **Lab ID: 92279472006** Collected: 12/10/15 12:55 Received: 12/11/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	1.0	0.32	1000		12/19/15 17:35	75-34-3	
1,2-Dichloroethane	ND	mg/L	1.0	0.24	1000		12/19/15 17:35	107-06-2	
1,1-Dichloroethene	ND	mg/L	1.0	0.56	1000		12/19/15 17:35	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	1.0	0.19	1000		12/19/15 17:35	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	1.0	0.49	1000		12/19/15 17:35	156-60-5	
Tetrachloroethene	**130**	mg/L	1.0	0.46	1000		12/19/15 17:35	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	1.0	0.48	1000		12/19/15 17:35	71-55-6	
Trichloroethene	ND	mg/L	1.0	0.47	1000		12/19/15 17:35	79-01-6	
Vinyl chloride	ND	mg/L	1.0	0.62	1000		12/19/15 17:35	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	114	%	70-130		1000		12/19/15 17:35	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1000		12/19/15 17:35	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1000		12/19/15 17:35	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/16/15 21:54	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%	50-150		1		12/16/15 21:54	17060-07-0	
Toluene-d8 (S)	99	%	50-150		1		12/16/15 21:54	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

Sample: AMW-16 **Lab ID: 92279472007** Collected: 12/10/15 09:30 Received: 12/11/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.010	0.0032	10		12/19/15 17:18	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.010	0.0024	10		12/19/15 17:18	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.010	0.0056	10		12/19/15 17:18	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.010	0.0019	10		12/19/15 17:18	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.010	0.0049	10		12/19/15 17:18	156-60-5	
Tetrachloroethene	**2.3**	mg/L	0.020	0.0092	20		12/21/15 22:58	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.010	0.0048	10		12/19/15 17:18	71-55-6	
Trichloroethene	**0.011**	mg/L	0.010	0.0047	10		12/19/15 17:18	79-01-6	
Vinyl chloride	ND	mg/L	0.010	0.0062	10		12/19/15 17:18	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	115	%	70-130		10		12/19/15 17:18	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130		10		12/19/15 17:18	17060-07-0	
Toluene-d8 (S)	100	%	70-130		10		12/19/15 17:18	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/16/15 22:14	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	100	%	50-150		1		12/16/15 22:14	17060-07-0	
Toluene-d8 (S)	89	%	50-150		1		12/16/15 22:14	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

Sample: DUP #2 **Lab ID: 92279472008** Collected: 12/10/15 00:00 Received: 12/11/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.010	0.0032	10		12/19/15 16:27	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.010	0.0024	10		12/19/15 16:27	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.010	0.0056	10		12/19/15 16:27	75-35-4	
cis-1,2-Dichloroethene	**0.10**	mg/L	0.010	0.0019	10		12/19/15 16:27	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.010	0.0049	10		12/19/15 16:27	156-60-5	
Tetrachloroethene	**127**	mg/L	1.0	0.46	1000		12/21/15 22:41	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.010	0.0048	10		12/19/15 16:27	71-55-6	
Trichloroethene	**0.047**	mg/L	0.010	0.0047	10		12/19/15 16:27	79-01-6	
Vinyl chloride	ND	mg/L	0.010	0.0062	10		12/19/15 16:27	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	112	%	70-130		10		12/19/15 16:27	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		10		12/19/15 16:27	17060-07-0	
Toluene-d8 (S)	101	%	70-130		10		12/19/15 16:27	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

Sample: DMW-12 **Lab ID: 92279472009** Collected: 12/10/15 14:30 Received: 12/11/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.25	0.080	250		12/22/15 07:20	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.25	0.060	250		12/22/15 07:20	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.25	0.14	250		12/22/15 07:20	75-35-4	
cis-1,2-Dichloroethene	**0.25J**	mg/L	0.25	0.048	250		12/22/15 07:20	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.25	0.12	250		12/22/15 07:20	156-60-5	
Tetrachloroethene	**34.9**	mg/L	0.25	0.12	250		12/22/15 07:20	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.25	0.12	250		12/22/15 07:20	71-55-6	
Trichloroethene	**0.32**	mg/L	0.25	0.12	250		12/22/15 07:20	79-01-6	
Vinyl chloride	ND	mg/L	0.25	0.16	250		12/22/15 07:20	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		250		12/22/15 07:20	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		250		12/22/15 07:20	17060-07-0	
Toluene-d8 (S)	107	%	70-130		250		12/22/15 07:20	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.0028**	mg/L	0.0020	0.0019	1		12/16/15 22:34	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%	50-150		1		12/16/15 22:34	17060-07-0	
Toluene-d8 (S)	95	%	50-150		1		12/16/15 22:34	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

Sample: TRIP BLANK **Lab ID: 92279472010** Collected: 12/09/15 00:00 Received: 12/11/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/18/15 00:13	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/18/15 00:13	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/18/15 00:13	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		12/18/15 00:13	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/18/15 00:13	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		12/18/15 00:13	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/18/15 00:13	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/18/15 00:13	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/18/15 00:13	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		12/18/15 00:13	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		12/18/15 00:13	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/18/15 00:13	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

Sample: MW-22D **Lab ID: 92279472011** Collected: 12/10/15 15:35 Received: 12/11/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	mg/L	0.010	0.0050	1		12/16/15 23:45	74-84-0	
Ethene	ND	mg/L	0.010	0.00047	1		12/16/15 23:45	74-85-1	
Methane	**0.0016J**	mg/L	0.010	0.00063	1		12/16/15 23:45	74-82-8	
3000 IC Anions 28 Days, GWD	Analytical Method: EPA 300.0								
Chloride	**13.5**	mg/L	1.0	0.10	1		12/16/15 13:39	16887-00-6	
Sulfate	**12.6**	mg/L	1.0	0.40	1		12/16/15 13:39	14808-79-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	**0.014**	mg/L	0.0010	0.00032	1		12/18/15 07:22	75-34-3	
1,2-Dichloroethane	**0.00093J**	mg/L	0.0010	0.00024	1		12/18/15 07:22	107-06-2	
1,1-Dichloroethene	**0.12**	mg/L	0.0010	0.00056	1		12/18/15 07:22	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		12/18/15 07:22	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/18/15 07:22	156-60-5	
Tetrachloroethene	**0.0034**	mg/L	0.0010	0.00046	1		12/18/15 07:22	127-18-4	
1,1,1-Trichloroethane	**0.17**	mg/L	0.0010	0.00048	1		12/18/15 07:22	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/18/15 07:22	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/18/15 07:22	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		12/18/15 07:22	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		12/18/15 07:22	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/18/15 07:22	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/16/15 22:55	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	105	%	50-150		1		12/16/15 22:55	17060-07-0	
Toluene-d8 (S)	90	%	50-150		1		12/16/15 22:55	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**228**	mg/L	5.0	1.0	1		12/14/15 23:00		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		12/14/15 12:30	18496-25-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.2**	mg/L	0.020	0.010	1		12/12/15 11:37		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**0.70J**	mg/L	1.0	0.50	1		12/14/15 23:47	7440-44-0	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

QC Batch: AIR/24868
QC Batch Method: RSK 175
Analysis Method: RSK 175
Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92279472011

METHOD BLANK: 2159917 Matrix: Water
Associated Lab Samples: 92279472011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethane	mg/L	ND	0.010	0.0050	12/16/15 23:37	
Ethene	mg/L	ND	0.010	0.00047	12/16/15 23:37	
Methane	mg/L	0.0018J	0.010	0.00063	12/16/15 23:37	

LABORATORY CONTROL SAMPLE & LCSD: 2159918 2159919

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	mg/L	.11	0.11	0.11	96	94	85-115	2	20	
Ethene	mg/L	.11	0.10	0.10	96	94	85-115	2	20	
Methane	mg/L	.061	0.058	0.057	96	93	85-115	3	20	

SAMPLE DUPLICATE: 2160083

Parameter	Units	92279472011 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	mg/L	ND	ND		20	
Ethene	mg/L	ND	ND		20	
Methane	mg/L	0.0016J	0.0014J		20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

QC Batch: GWD/2745
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 3000 IC Anions, GWD
Associated Lab Samples: 92279472011

METHOD BLANK: 1630011 Matrix: Water
Associated Lab Samples: 92279472011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.10	12/16/15 10:55	
Sulfate	mg/L	ND	1.0	0.40	12/16/15 10:55	

LABORATORY CONTROL SAMPLE: 1630012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.9	106	90-110	
Sulfate	mg/L	50	51.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1630013 1630014

Parameter	Units	92279737001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.6	50	50	51.4	51.9	98	99	90-110	1	20	
Sulfate	mg/L	30.7	50	50	79.2	79.6	97	98	90-110	0	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

QC Batch: MERP/8788 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92279472002, 92279472004

METHOD BLANK: 1629746 Matrix: Water
Associated Lab Samples: 92279472002, 92279472004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00010	12/17/15 17:42	

LABORATORY CONTROL SAMPLE: 1629747

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1629748 1629749

Parameter	Units	92279275008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	.0025	.0025	0.0024	0.0025	96	99	75-125	3	25	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

QC Batch: MPRP/20283 Analysis Method: EPA 6010
QC Batch Method: EPA 3010A Analysis Description: 6010 MET
Associated Lab Samples: 92279472002, 92279472004

METHOD BLANK: 1628723 Matrix: Water
Associated Lab Samples: 92279472002, 92279472004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.010	0.0050	12/16/15 04:50	
Barium	mg/L	ND	0.0050	0.0025	12/16/15 04:50	
Cadmium	mg/L	ND	0.0010	0.00050	12/16/15 04:50	
Chromium	mg/L	ND	0.0050	0.0025	12/16/15 04:50	
Lead	mg/L	ND	0.0050	0.0025	12/16/15 04:50	
Selenium	mg/L	ND	0.010	0.0050	12/16/15 04:50	
Silver	mg/L	ND	0.0050	0.0025	12/16/15 04:50	

LABORATORY CONTROL SAMPLE: 1628724

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	.5	0.47	94	80-120	
Barium	mg/L	.5	0.48	97	80-120	
Cadmium	mg/L	.5	0.49	99	80-120	
Chromium	mg/L	.5	0.50	101	80-120	
Lead	mg/L	.5	0.49	98	80-120	
Selenium	mg/L	.5	0.48	95	80-120	
Silver	mg/L	.25	0.23	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1628732 1628733

Parameter	Units	92279562001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	.5	.5	0.48	0.48	95	96	75-125	1	20	
Barium	mg/L	152 ug/L	.5	.5	0.63	0.64	95	97	75-125	1	20	
Cadmium	mg/L	ND	.5	.5	0.49	0.50	98	99	75-125	1	20	
Chromium	mg/L	ND	.5	.5	0.50	0.50	99	100	75-125	1	20	
Lead	mg/L	ND	.5	.5	0.48	0.49	97	98	75-125	1	20	
Selenium	mg/L	ND	.5	.5	0.48	0.48	95	96	75-125	1	20	
Silver	mg/L	ND	.25	.25	0.23	0.23	92	93	75-125	1	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

QC Batch: MSV/34757 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92279472010

METHOD BLANK: 1631896 Matrix: Water
Associated Lab Samples: 92279472010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/17/15 22:48	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/17/15 22:48	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/17/15 22:48	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/17/15 22:48	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/17/15 22:48	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/17/15 22:48	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/17/15 22:48	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/17/15 22:48	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/17/15 22:48	
1,2-Dichloroethane-d4 (S)	%	103	70-130		12/17/15 22:48	
4-Bromofluorobenzene (S)	%	103	70-130		12/17/15 22:48	
Toluene-d8 (S)	%	99	70-130		12/17/15 22:48	

LABORATORY CONTROL SAMPLE: 1631897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.052	104	70-130	
1,1-Dichloroethane	mg/L	.05	0.047	95	70-130	
1,1-Dichloroethene	mg/L	.05	0.050	100	70-132	
1,2-Dichloroethane	mg/L	.05	0.048	95	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.048	97	70-131	
Tetrachloroethene	mg/L	.05	0.046	92	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.048	97	70-130	
Trichloroethene	mg/L	.05	0.048	96	70-130	
Vinyl chloride	mg/L	.05	0.053	105	50-150	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1631898

Parameter	Units	92279455001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.024	122	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.022	112	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.024	120	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.022	109	70-130	
cis-1,2-Dichloroethene	mg/L	ND	.02	0.022	109	70-130	
Tetrachloroethene	mg/L	ND	.02	0.020	101	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

MATRIX SPIKE SAMPLE: 1631898

Parameter	Units	92279455001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.023	113	70-130	
Trichloroethene	mg/L	ND	.02	0.022	111	69-151	
Vinyl chloride	mg/L	ND	.02	0.024	122	70-130	
1,2-Dichloroethane-d4 (S)	%				108	70-130	
4-Bromofluorobenzene (S)	%				105	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1631899

Parameter	Units	92279455002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	107	105	2		
4-Bromofluorobenzene (S)	%	102	103	1		
Toluene-d8 (S)	%	102	102	0		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

QC Batch: MSV/34758 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92279472011

METHOD BLANK: 1631909 Matrix: Water
Associated Lab Samples: 92279472011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/17/15 23:05	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/17/15 23:05	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/17/15 23:05	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/17/15 23:05	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/17/15 23:05	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/17/15 23:05	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/17/15 23:05	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/17/15 23:05	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/17/15 23:05	
1,2-Dichloroethane-d4 (S)	%	104	70-130		12/17/15 23:05	
4-Bromofluorobenzene (S)	%	104	70-130		12/17/15 23:05	
Toluene-d8 (S)	%	100	70-130		12/17/15 23:05	

LABORATORY CONTROL SAMPLE: 1631910

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.052	104	70-130	
1,1-Dichloroethane	mg/L	.05	0.048	95	70-130	
1,1-Dichloroethene	mg/L	.05	0.050	101	70-132	
1,2-Dichloroethane	mg/L	.05	0.047	94	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.049	97	70-131	
Tetrachloroethene	mg/L	.05	0.046	92	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.049	98	70-130	
Trichloroethene	mg/L	.05	0.048	96	70-130	
Vinyl chloride	mg/L	.05	0.052	105	50-150	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			108	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1631911

Parameter	Units	92279454003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.025	127	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.023	115	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.026	128	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.022	112	70-130	
cis-1,2-Dichloroethene	mg/L	ND	.02	0.023	114	70-130	
Tetrachloroethene	mg/L	ND	.02	0.021	107	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

MATRIX SPIKE SAMPLE: 1631911

Parameter	Units	92279454003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.024	119	70-130	
Trichloroethene	mg/L	ND	.02	0.022	111	69-151	
Vinyl chloride	mg/L	ND	.02	0.026	131	70-130	M1
1,2-Dichloroethane-d4 (S)	%				107	70-130	
4-Bromofluorobenzene (S)	%				105	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1631912

Parameter	Units	92279454004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	108	110	2		
4-Bromofluorobenzene (S)	%	102	101	1		
Toluene-d8 (S)	%	101	100	1		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

QC Batch: MSV/34777 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92279472001, 92279472002, 92279472003

METHOD BLANK: 1632734 Matrix: Water
Associated Lab Samples: 92279472001, 92279472002, 92279472003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/18/15 23:53	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/18/15 23:53	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/18/15 23:53	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/18/15 23:53	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/18/15 23:53	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/18/15 23:53	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/18/15 23:53	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/18/15 23:53	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/18/15 23:53	
1,2-Dichloroethane-d4 (S)	%	106	70-130		12/18/15 23:53	
4-Bromofluorobenzene (S)	%	103	70-130		12/18/15 23:53	
Toluene-d8 (S)	%	100	70-130		12/18/15 23:53	

LABORATORY CONTROL SAMPLE: 1632735

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.053	107	70-130	
1,1-Dichloroethane	mg/L	.05	0.048	97	70-130	
1,1-Dichloroethene	mg/L	.05	0.051	102	70-132	
1,2-Dichloroethane	mg/L	.05	0.049	98	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.050	99	70-131	
Tetrachloroethene	mg/L	.05	0.046	92	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.049	98	70-130	
Trichloroethene	mg/L	.05	0.049	98	70-130	
Vinyl chloride	mg/L	.05	0.054	107	50-150	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

QC Batch: MSV/34795 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92279472004, 92279472006, 92279472007, 92279472008

METHOD BLANK: 1633889 Matrix: Water
Associated Lab Samples: 92279472004, 92279472006, 92279472007, 92279472008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/19/15 11:53	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/19/15 11:53	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/19/15 11:53	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/19/15 11:53	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/19/15 11:53	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/19/15 11:53	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/19/15 11:53	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/19/15 11:53	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/19/15 11:53	
1,2-Dichloroethane-d4 (S)	%	108	70-130		12/19/15 11:53	
4-Bromofluorobenzene (S)	%	110	70-130		12/19/15 11:53	
Toluene-d8 (S)	%	100	70-130		12/19/15 11:53	

LABORATORY CONTROL SAMPLE: 1633890

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.054	108	70-130	
1,1-Dichloroethane	mg/L	.05	0.046	91	70-130	
1,1-Dichloroethene	mg/L	.05	0.050	100	70-132	
1,2-Dichloroethane	mg/L	.05	0.050	99	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.047	94	70-131	
Tetrachloroethene	mg/L	.05	0.049	97	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.048	95	70-130	
Trichloroethene	mg/L	.05	0.049	98	70-130	
Vinyl chloride	mg/L	.05	0.049	98	50-150	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			111	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1633891

Parameter	Units	92279987001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.026	129	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.021	106	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.024	120	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.023	116	70-130	
cis-1,2-Dichloroethene	mg/L	ND	.02	0.021	107	70-130	
Tetrachloroethene	mg/L	ND	.02	0.022	111	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

MATRIX SPIKE SAMPLE: 1633891

Parameter	Units	92279987001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.021	104	70-130	
Trichloroethene	mg/L	ND	.02	0.023	115	69-151	
Vinyl chloride	mg/L	ND	.02	0.022	112	70-130	
1,2-Dichloroethane-d4 (S)	%				113	70-130	
4-Bromofluorobenzene (S)	%				113	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1633892

Parameter	Units	92279649002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	0.00072J	0.00077J		30	
1,1-Dichloroethene	mg/L	0.00078J	0.00076J		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	0.49	0.47	6	30	
Tetrachloroethene	mg/L	11.8	11.2	5	30	
trans-1,2-Dichloroethene	mg/L	0.0014	0.0015	3	30	
Trichloroethene	mg/L	0.27	0.24	12	30	
Vinyl chloride	mg/L	0.0010	0.0011	3	30	
1,2-Dichloroethane-d4 (S)	%	111	110	1		
4-Bromofluorobenzene (S)	%	113	112	1		
Toluene-d8 (S)	%	98	97	1		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

QC Batch: MSV/34858 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92279472005, 92279472009

METHOD BLANK: 1634996 Matrix: Water
Associated Lab Samples: 92279472005, 92279472009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/22/15 06:46	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/22/15 06:46	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/22/15 06:46	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/22/15 06:46	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/22/15 06:46	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/22/15 06:46	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/22/15 06:46	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/22/15 06:46	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/22/15 06:46	
1,2-Dichloroethane-d4 (S)	%	90	70-130		12/22/15 06:46	
4-Bromofluorobenzene (S)	%	102	70-130		12/22/15 06:46	
Toluene-d8 (S)	%	107	70-130		12/22/15 06:46	

LABORATORY CONTROL SAMPLE: 1634997

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.052	104	70-130	
1,1-Dichloroethane	mg/L	.05	0.049	97	70-130	
1,1-Dichloroethene	mg/L	.05	0.048	95	70-132	
1,2-Dichloroethane	mg/L	.05	0.047	94	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.049	97	70-131	
Tetrachloroethene	mg/L	.05	0.050	101	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.050	100	70-130	
Trichloroethene	mg/L	.05	0.056	112	70-130	
Vinyl chloride	mg/L	.05	0.048	97	50-150	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

QC Batch: MSV/34723 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92279472001, 92279472004

METHOD BLANK: 1629602 Matrix: Water
Associated Lab Samples: 92279472001, 92279472004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	0.0019	12/15/15 19:53	
1,2-Dichloroethane-d4 (S)	%	107	50-150		12/15/15 19:53	
Toluene-d8 (S)	%	91	50-150		12/15/15 19:53	

LABORATORY CONTROL SAMPLE: 1629603

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.018	91	71-125	
1,2-Dichloroethane-d4 (S)	%			106	50-150	
Toluene-d8 (S)	%			93	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1629604 1629605

Parameter	Units	92279472004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	mg/L	0.0027	.02	.02	0.020	0.020	89	87	50-150	1	30	
1,2-Dichloroethane-d4 (S)	%						100	96	50-150		150	
Toluene-d8 (S)	%						93	93	50-150		150	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

QC Batch: MSV/34741 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92279472002, 92279472003, 92279472006, 92279472007, 92279472009, 92279472011

METHOD BLANK: 1630721 Matrix: Water
Associated Lab Samples: 92279472002, 92279472003, 92279472006, 92279472007, 92279472009, 92279472011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	0.0019	12/16/15 16:28	
1,2-Dichloroethane-d4 (S)	%	100	50-150		12/16/15 16:28	
Toluene-d8 (S)	%	90	50-150		12/16/15 16:28	

LABORATORY CONTROL SAMPLE: 1630722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.018	88	71-125	
1,2-Dichloroethane-d4 (S)	%			98	50-150	
Toluene-d8 (S)	%			94	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1630723 1630724

Parameter	Units	92279275003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	mg/L	ND	.02	.02	0.017	0.018	86	91	50-150	6	30	
1,2-Dichloroethane-d4 (S)	%						103	101	50-150		150	
Toluene-d8 (S)	%						89	89	50-150		150	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

QC Batch: WET/41954 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92279472011

METHOD BLANK: 1628043 Matrix: Water
Associated Lab Samples: 92279472011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.0	12/14/15 18:56	

LABORATORY CONTROL SAMPLE: 1628044

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.4	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1628045 1628046

Parameter	Units	92279416001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	48.1	50	50	99.3	97.7	103	99	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1628047 1628048

Parameter	Units	92279423004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	50.0	49.4	100	99	80-120	1	25	

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

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

QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

QC Batch: WET/41939
QC Batch Method: SM 4500-S2D
Analysis Method: SM 4500-S2D
Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92279472011

METHOD BLANK: 1627836
Matrix: Water
Associated Lab Samples: 92279472011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.10	12/14/15 12:30	

LABORATORY CONTROL SAMPLE: 1627837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.50	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1627838 1627839

Parameter	Units	92279414002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.47	0.47	95	95	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1627840 1627841

Parameter	Units	92279423002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.48	0.48	97	97	90-110	0	10	

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

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

QC Batch: WETA/25766
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92279472011

METHOD BLANK: 1627811
Matrix: Water
Associated Lab Samples: 92279472011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	0.010	12/12/15 11:13	

LABORATORY CONTROL SAMPLE: 1627812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.5	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1627813 1627814

Parameter	Units	92279562001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	2.5	2.5	2.4	2.4	95	95	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1627815 1627816

Parameter	Units	92279470004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.023	2.5	2.5	2.5	2.5	99	99	90-110	0	10	

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.

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

QC Batch: WETA/25768
QC Batch Method: SM 5310B
Analysis Method: SM 5310B
Analysis Description: 5310B TOC
Associated Lab Samples: 92279472011

METHOD BLANK: 1627943 Matrix: Water
Associated Lab Samples: 92279472011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	12/14/15 16:53	

LABORATORY CONTROL SAMPLE: 1627944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	23.9	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1627945 1627946

Parameter	Units	92279416001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	25	25	25.0	25.3	99	100	90-110	1	5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1627947 1627948

Parameter	Units	92279416002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	11.8	25	25	23.0	24.8	45	52	90-110	8	5	M1,R1

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.

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Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-G	Pace Analytical Services - Greenwood
PASI-M	Pace Analytical Services - Minneapolis
PASI-W	Pace Analytical Services - Greenwood

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279472

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92279472011	**MW-22D**	RSK 175	AIR/24868		
92279472011	**MW-22D**	EPA 300.0	GWD/2745		
92279472002	**AMW-10**	EPA 3010A	MPRP/20283	EPA 6010	ICP/18305
92279472004	**ARW-1**	EPA 3010A	MPRP/20283	EPA 6010	ICP/18305
92279472002	**AMW-10**	EPA 7470	MERP/8788	EPA 7470	MERC/8442
92279472004	**ARW-1**	EPA 7470	MERP/8788	EPA 7470	MERC/8442
92279472001	**OBG-W5**	EPA 8260	MSV/34777		
92279472002	**AMW-10**	EPA 8260	MSV/34777		
92279472003	**AMW-3**	EPA 8260	MSV/34777		
92279472004	**ARW-1**	EPA 8260	MSV/34795		
92279472005	**DUP-1**	EPA 8260	MSV/34858		
92279472006	**AMW-1**	EPA 8260	MSV/34795		
92279472007	**AMW-16**	EPA 8260	MSV/34795		
92279472008	**DUP #2**	EPA 8260	MSV/34795		
92279472009	**DMW-12**	EPA 8260	MSV/34858		
92279472010	**TRIP BLANK**	EPA 8260	MSV/34757		
92279472011	**MW-22D**	EPA 8260	MSV/34758		
92279472001	**OBG-W5**	EPA 8260B Mod.	MSV/34723		
92279472002	**AMW-10**	EPA 8260B Mod.	MSV/34741		
92279472003	**AMW-3**	EPA 8260B Mod.	MSV/34741		
92279472004	**ARW-1**	EPA 8260B Mod.	MSV/34723		
92279472006	**AMW-1**	EPA 8260B Mod.	MSV/34741		
92279472007	**AMW-16**	EPA 8260B Mod.	MSV/34741		
92279472009	**DMW-12**	EPA 8260B Mod.	MSV/34741		
92279472011	**MW-22D**	EPA 8260B Mod.	MSV/34741		
92279472011	**MW-22D**	SM 2320B	WET/41954		
92279472011	**MW-22D**	SM 4500-S2D	WET/41939		
92279472011	**MW-22D**	EPA 353.2	WETA/25766		
92279472011	**MW-22D**	SM 5310B	WETA/25768		

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Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 17, 2015 Page 1 of 2*
	Document Number: F-CHR-CS-003-rev.16.1	Issuing Authority: Pace Huntersville Quality Office

Client Name:_____

* Page 2 of 2 is for Internal Use Only

Courier: ☐ Fed Ex ☑ UPS ☐ USP ☐ Clien ☐ Commercia ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

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

Thermometer Used: IR Gun T1505 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor No Correction

Corrected Cooler Temp.: 4.3 °C

Temp should be above freezing to 6°C

Biological Tissue is Frozen: Yes No N/A

Comments:

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: 12-11-15 KW

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☐No ☑N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

SCURF Review: NMG **Date:** 12-11-15

SRF Review: NMG **Date:** 12-12-15

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)

Place label here

WO# : 92279472

92279472

Client Name: _____

* Page 2 of 2 is for Internal Use Only

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

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

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

Thermometer Used: IR Gun T1505 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor No Correction

Optional
Proj. Due Date:
Proj. Name:

Corrected Cooler Temp.: 4.3 °C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 12-11-15 KW

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☐No ☑N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: NMG **Date:** 12-11-15

SRF Review: NMG **Date:** 12-12-15

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)

Place label here

WO# : 92279472

92279472

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of

1995922

Section A Required Client Information:

Company: Earth Con
Address: 1880 W. Oak Pkwy
Marietta, GA 30062
Email To: krivera@earthcon.com
Phone: 770-913-2100 Fax: 770-913-7375
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Kristen Rivera
Copy To:
Purchase Order No.:
Project Name: AMC Dalton
Project Number: 02.2014.0392.00

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 7457-1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOC	1,4 Dioxane	RCRA Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92279472
1	GBG-W5	WT	G			12/9/15	1645		6				6						3	3			001
2	AMW-10	WT	G			12/9/15	16:50		7				1 6						3	3	1		002
3	AMW-3	WT	G			12/9/15	9:55		6				6						3	3			003
4	AMW-1	WT	G			12/10/15	11:40		7				1 6						3	3	1		004
5	Dup-1	WT	G			12/10/15	—		3				3						3				005
6	AMW-1	WT	G			12/10/15	1255		6				6						3	3			006
7	AMW-16	WT	G			12/10/15	0930		6				6						3	3			007
8	Dup #2	WT	G			12/10/15	—		3				3						3				008
9	BMW-12	WT	G			12/10/15	14:30		6				6						3	3			009
10	Trip Blank	WT	G						2				2						2				010
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Keaton Henry / Earth Con	12/10/15	16:20	B. Pot.T	12-10	16:20	
				Received pre HVL	12-11-15	945	4.3 Y N Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keaton Henry
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): CN 0.7

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of

1995924

Section A Required Client Information:

Company: Earthen
Address: 1880W Oak Pky Marietta, GA 30062
Email To: krivera@earthen
Phone: 770-9132100 Fax: 770 913 7335
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Kristen Rivera
Copy To:
Purchase Order No.:
Project Name: AMC Dalton
Project Number: 02.2014.0392.00

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other Pheoxeric Acid	Analysis Test Y/N	VOC 8260B	1,4 Dioxane	Chloride, Sulfate	Sulfide	Nitrate, Alkalinity	Methane/Ethane	Ethene	TOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92279472
1	MW-220	WT	G			12/10/15	1535		6				6						3	3	1	1	1	3	3			011
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	K Henry / Earth Con	12/10/15	16:20	B Petit	12-10	1620				
				Kenedo pace	12/11/15	9:45	4.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: C Nolin
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY):

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

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

December 29, 2015

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279649

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on December 12, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Nicole Gasiorowski

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

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

CERTIFICATIONS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279649

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279649

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92279649001	**AMW-20**	Water	12/11/15 16:00	12/12/15 08:30
92279649002	**ARW-3**	Water	12/11/15 12:30	12/12/15 08:30
92279649003	**AMW-21**	Water	12/11/15 12:50	12/12/15 08:30
92279649004	**TRIP BLANK**	Water	12/11/15 00:00	12/12/15 08:30

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SAMPLE ANALYTE COUNT

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279649

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92279649001	**AMW-20**	EPA 8260	NB	12
		EPA 8260B Mod.	DLK	3
92279649002	**ARW-3**	EPA 8260	NB	12
		EPA 8260B Mod.	DLK	3
92279649003	**AMW-21**	EPA 8260	NB	12
		EPA 8260B Mod.	DLK	3
92279649004	**TRIP BLANK**	EPA 8260	NB	12

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279649

Sample: AMW-20 **Lab ID: 92279649001** Collected: 12/11/15 16:00 Received: 12/12/15 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/19/15 03:52	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/19/15 03:52	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/19/15 03:52	75-35-4	
cis-1,2-Dichloroethene	**0.0030**	mg/L	0.0010	0.00019	1		12/19/15 03:52	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/19/15 03:52	156-60-5	
Tetrachloroethene	**0.072**	mg/L	0.0010	0.00046	1		12/19/15 03:52	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/19/15 03:52	71-55-6	
Trichloroethene	**0.00062J**	mg/L	0.0010	0.00047	1		12/19/15 03:52	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/19/15 03:52	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	109	%	70-130		1		12/19/15 03:52	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		12/19/15 03:52	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/19/15 03:52	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/16/15 23:35	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%	50-150		1		12/16/15 23:35	17060-07-0	
Toluene-d8 (S)	90	%	50-150		1		12/16/15 23:35	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279649

Sample: ARW-3 **Lab ID: 92279649002** Collected: 12/11/15 12:30 Received: 12/12/15 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	**0.00072J**	mg/L	0.0010	0.00032	1		12/19/15 15:36	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/19/15 15:36	107-06-2	
1,1-Dichloroethene	**0.00078J**	mg/L	0.0010	0.00056	1		12/19/15 15:36	75-35-4	
cis-1,2-Dichloroethene	**0.49**	mg/L	0.20	0.038	200		12/22/15 09:49	156-59-2	
trans-1,2-Dichloroethene	**0.0014**	mg/L	0.0010	0.00049	1		12/19/15 15:36	156-60-5	
Tetrachloroethene	**11.8**	mg/L	0.20	0.092	200		12/22/15 09:49	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/19/15 15:36	71-55-6	
Trichloroethene	**0.27**	mg/L	0.20	0.094	200		12/22/15 09:49	79-01-6	
Vinyl chloride	**0.0010**	mg/L	0.0010	0.00062	1		12/19/15 15:36	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	113	%	70-130		1		12/19/15 15:36	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		12/19/15 15:36	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		12/19/15 15:36	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/16/15 23:56	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	100	%	50-150		1		12/16/15 23:56	17060-07-0	
Toluene-d8 (S)	91	%	50-150		1		12/16/15 23:56	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279649

Sample: AMW-21 **Lab ID: 92279649003** Collected: 12/11/15 12:50 Received: 12/12/15 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.20	0.064	200		12/20/15 07:51	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.20	0.048	200		12/20/15 07:51	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.20	0.11	200		12/20/15 07:51	75-35-4	
cis-1,2-Dichloroethene	**0.86**	mg/L	0.20	0.038	200		12/20/15 07:51	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.20	0.098	200		12/20/15 07:51	156-60-5	
Tetrachloroethene	**17.9**	mg/L	0.20	0.092	200		12/20/15 07:51	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.20	0.096	200		12/20/15 07:51	71-55-6	
Trichloroethene	**0.40**	mg/L	0.20	0.094	200		12/20/15 07:51	79-01-6	
Vinyl chloride	ND	mg/L	0.20	0.12	200		12/20/15 07:51	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	119	%	70-130		200		12/20/15 07:51	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		200		12/20/15 07:51	17060-07-0	
Toluene-d8 (S)	100	%	70-130		200		12/20/15 07:51	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/17/15 02:59	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%	50-150		1		12/17/15 02:59	17060-07-0	
Toluene-d8 (S)	92	%	50-150		1		12/17/15 02:59	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279649

Sample: TRIP BLANK **Lab ID: 92279649004** Collected: 12/11/15 00:00 Received: 12/12/15 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/19/15 00:27	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/19/15 00:27	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/19/15 00:27	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		12/19/15 00:27	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/19/15 00:27	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		12/19/15 00:27	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/19/15 00:27	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/19/15 00:27	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/19/15 00:27	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		12/19/15 00:27	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		12/19/15 00:27	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/19/15 00:27	2037-26-5	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279649

QC Batch: MSV/34774 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92279649001, 92279649004

METHOD BLANK: 1632704 Matrix: Water
Associated Lab Samples: 92279649001, 92279649004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/18/15 23:36	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/18/15 23:36	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/18/15 23:36	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/18/15 23:36	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/18/15 23:36	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/18/15 23:36	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/18/15 23:36	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/18/15 23:36	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/18/15 23:36	
1,2-Dichloroethane-d4 (S)	%	104	70-130		12/18/15 23:36	
4-Bromofluorobenzene (S)	%	103	70-130		12/18/15 23:36	
Toluene-d8 (S)	%	102	70-130		12/18/15 23:36	

LABORATORY CONTROL SAMPLE: 1632705

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.057	115	70-130	
1,1-Dichloroethane	mg/L	.05	0.052	105	70-130	
1,1-Dichloroethene	mg/L	.05	0.055	111	70-132	
1,2-Dichloroethane	mg/L	.05	0.053	106	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.053	106	70-131	
Tetrachloroethene	mg/L	.05	0.050	100	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.054	108	70-130	
Trichloroethene	mg/L	.05	0.053	106	70-130	
Vinyl chloride	mg/L	.05	0.058	116	50-150	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			109	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1632706

Parameter	Units	92279650001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.026	129	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.021	106	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.024	119	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.023	117	70-130	
cis-1,2-Dichloroethene	mg/L	ND	.02	0.022	111	70-130	
Tetrachloroethene	mg/L	0.0013	.02	0.023	109	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279649

MATRIX SPIKE SAMPLE: 1632706

Parameter	Units	92279650001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.022	110	70-130	
Trichloroethene	mg/L	ND	.02	0.024	117	69-151	
Vinyl chloride	mg/L	ND	.02	0.023	115	70-130	
1,2-Dichloroethane-d4 (S)	%				108	70-130	
4-Bromofluorobenzene (S)	%				113	70-130	
Toluene-d8 (S)	%				100	70-130	

MATRIX SPIKE SAMPLE: 1632708

Parameter	Units	92279649001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.025	126	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.021	106	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.023	115	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.023	113	70-130	
cis-1,2-Dichloroethene	mg/L	0.0030	.02	0.024	104	70-130	
Tetrachloroethene	mg/L	0.072	.02	0.094	109	70-130	
trans-1,2-Dichloroethene	mg/L	ND	.02	0.022	108	70-130	
Trichloroethene	mg/L	0.00062J	.02	0.023	114	69-151	
Vinyl chloride	mg/L	ND	.02	0.023	115	70-130	
1,2-Dichloroethane-d4 (S)	%				108	70-130	
4-Bromofluorobenzene (S)	%				111	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1632707

Parameter	Units	92279612001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	111	110	1		
4-Bromofluorobenzene (S)	%	110	107	3		
Toluene-d8 (S)	%	99	100	1		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279649

SAMPLE DUPLICATE: 1632709

Parameter	Units	92279898001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	4.2 ug/L	0.0042	0	30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	108	110	1		
4-Bromofluorobenzene (S)	%	113	109	4		
Toluene-d8 (S)	%	100	100	0		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279649

QC Batch: MSV/34795 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92279649002

METHOD BLANK: 1633889 Matrix: Water
Associated Lab Samples: 92279649002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/19/15 11:53	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/19/15 11:53	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/19/15 11:53	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/19/15 11:53	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/19/15 11:53	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/19/15 11:53	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/19/15 11:53	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/19/15 11:53	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/19/15 11:53	
1,2-Dichloroethane-d4 (S)	%	108	70-130		12/19/15 11:53	
4-Bromofluorobenzene (S)	%	110	70-130		12/19/15 11:53	
Toluene-d8 (S)	%	100	70-130		12/19/15 11:53	

LABORATORY CONTROL SAMPLE: 1633890

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.054	108	70-130	
1,1-Dichloroethane	mg/L	.05	0.046	91	70-130	
1,1-Dichloroethene	mg/L	.05	0.050	100	70-132	
1,2-Dichloroethane	mg/L	.05	0.050	99	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.047	94	70-131	
Tetrachloroethene	mg/L	.05	0.049	97	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.048	95	70-130	
Trichloroethene	mg/L	.05	0.049	98	70-130	
Vinyl chloride	mg/L	.05	0.049	98	50-150	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			111	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1633891

Parameter	Units	92279987001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.026	129	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.021	106	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.024	120	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.023	116	70-130	
cis-1,2-Dichloroethene	mg/L	ND	.02	0.021	107	70-130	
Tetrachloroethene	mg/L	ND	.02	0.022	111	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279649

MATRIX SPIKE SAMPLE: 1633891

Parameter	Units	92279987001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.021	104	70-130	
Trichloroethene	mg/L	ND	.02	0.023	115	69-151	
Vinyl chloride	mg/L	ND	.02	0.022	112	70-130	
1,2-Dichloroethane-d4 (S)	%				113	70-130	
4-Bromofluorobenzene (S)	%				113	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1633892

Parameter	Units	92279649002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	0.00072J	0.00077J		30	
1,1-Dichloroethene	mg/L	0.00078J	0.00076J		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	0.49	0.47	6	30	
Tetrachloroethene	mg/L	11.8	11.2	5	30	
trans-1,2-Dichloroethene	mg/L	0.0014	0.0015	3	30	
Trichloroethene	mg/L	0.27	0.24	12	30	
Vinyl chloride	mg/L	0.0010	0.0011	3	30	
1,2-Dichloroethane-d4 (S)	%	111	110	1		
4-Bromofluorobenzene (S)	%	113	112	1		
Toluene-d8 (S)	%	98	97	1		

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279649

QC Batch: MSV/34806 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92279649003

METHOD BLANK: 1633931 Matrix: Water
Associated Lab Samples: 92279649003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/20/15 01:34	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/20/15 01:34	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/20/15 01:34	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/20/15 01:34	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/20/15 01:34	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/20/15 01:34	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/20/15 01:34	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/20/15 01:34	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/20/15 01:34	
1,2-Dichloroethane-d4 (S)	%	106	70-130		12/20/15 01:34	
4-Bromofluorobenzene (S)	%	115	70-130		12/20/15 01:34	
Toluene-d8 (S)	%	99	70-130		12/20/15 01:34	

LABORATORY CONTROL SAMPLE: 1633932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.056	112	70-130	
1,1-Dichloroethane	mg/L	.05	0.046	92	70-130	
1,1-Dichloroethene	mg/L	.05	0.051	102	70-132	
1,2-Dichloroethane	mg/L	.05	0.052	104	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.048	95	70-131	
Tetrachloroethene	mg/L	.05	0.048	95	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.048	96	70-130	
Trichloroethene	mg/L	.05	0.051	102	70-130	
Vinyl chloride	mg/L	.05	0.049	99	50-150	
1,2-Dichloroethane-d4 (S)	%			108	70-130	
4-Bromofluorobenzene (S)	%			114	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1633934

Parameter	Units	92279911007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	5	6.5	130	70-130	
1,1-Dichloroethane	mg/L	ND	5	5.2	105	70-130	
1,1-Dichloroethene	mg/L	ND	5	5.7	113	70-166	
1,2-Dichloroethane	mg/L	ND	5	5.9	118	70-130	
cis-1,2-Dichloroethene	mg/L	ND	5	5.4	107	70-130	
Tetrachloroethene	mg/L	ND	5	5.4	108	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279649

MATRIX SPIKE SAMPLE: 1633934

Parameter	Units	92279911007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	5	5.4	107	70-130	
Trichloroethene	mg/L	ND	5	5.6	112	69-151	
Vinyl chloride	mg/L	ND	5	5.4	108	70-130	
1,2-Dichloroethane-d4 (S)	%				106	70-130	
4-Bromofluorobenzene (S)	%				110	70-130	
Toluene-d8 (S)	%				101	70-130	

MATRIX SPIKE SAMPLE: 1633935

Parameter	Units	92279649003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	4	5.2	130	70-130	
1,1-Dichloroethane	mg/L	ND	4	4.2	104	70-130	
1,1-Dichloroethene	mg/L	ND	4	4.6	115	70-166	
1,2-Dichloroethane	mg/L	ND	4	4.6	114	70-130	
cis-1,2-Dichloroethene	mg/L	0.86	4	5.1	106	70-130	
Tetrachloroethene	mg/L	17.9	4	22.0	104	70-130	
trans-1,2-Dichloroethene	mg/L	ND	4	4.3	108	70-130	
Trichloroethene	mg/L	0.40	4	5.0	115	69-151	
Vinyl chloride	mg/L	ND	4	4.5	113	70-130	
1,2-Dichloroethane-d4 (S)	%				106	70-130	
4-Bromofluorobenzene (S)	%				111	70-130	
Toluene-d8 (S)	%				102	70-130	

SAMPLE DUPLICATE: 1633933

Parameter	Units	92279911008 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	107	108	1		
4-Bromofluorobenzene (S)	%	117	116	1		
Toluene-d8 (S)	%	100	99	1		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279649

SAMPLE DUPLICATE: 1633936

Parameter	Units	92279911005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	6.8J ug/L	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	110	108	2		
4-Bromofluorobenzene (S)	%	118	118	0		
Toluene-d8 (S)	%	100	101	0		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279649

QC Batch: MSV/34741 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92279649001, 92279649002

METHOD BLANK: 1630721 Matrix: Water
Associated Lab Samples: 92279649001, 92279649002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	0.0019	12/16/15 16:28	
1,2-Dichloroethane-d4 (S)	%	100	50-150		12/16/15 16:28	
Toluene-d8 (S)	%	90	50-150		12/16/15 16:28	

LABORATORY CONTROL SAMPLE: 1630722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.018	88	71-125	
1,2-Dichloroethane-d4 (S)	%			98	50-150	
Toluene-d8 (S)	%			94	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1630723 1630724

Parameter	Units	92279275003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	mg/L	ND	.02	.02	0.017	0.018	86	91	50-150	6	30	
1,2-Dichloroethane-d4 (S)	%						103	101	50-150		150	
Toluene-d8 (S)	%						89	89	50-150		150	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279649

QC Batch: MSV/34742
QC Batch Method: EPA 8260B Mod.
Analysis Method: EPA 8260B Mod.
Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92279649003

METHOD BLANK: 1630729 Matrix: Water
Associated Lab Samples: 92279649003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	0.0019	12/16/15 16:08	
1,2-Dichloroethane-d4 (S)	%	101	50-150		12/16/15 16:08	
Toluene-d8 (S)	%	92	50-150		12/16/15 16:08	

LABORATORY CONTROL SAMPLE: 1630730

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.017	87	71-125	
1,2-Dichloroethane-d4 (S)	%			101	50-150	
Toluene-d8 (S)	%			92	50-150	

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QUALIFIERS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279649

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279649

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92279649001	**AMW-20**	EPA 8260	MSV/34774		
92279649002	**ARW-3**	EPA 8260	MSV/34795		
92279649003	**AMW-21**	EPA 8260	MSV/34806		
92279649004	**TRIP BLANK**	EPA 8260	MSV/34774		
92279649001	**AMW-20**	EPA 8260B Mod.	MSV/34741		
92279649002	**ARW-3**	EPA 8260B Mod.	MSV/34741		
92279649003	**AMW-21**	EPA 8260B Mod.	MSV/34742		

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Pace Analytical®	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 17, 2015 Page 1 of 2*
	Document Number: F-CHR-CS-003-rev.16.1	Issuing Authority: Pace Huntersville Quality Office

Client Name: Earth

* Page 2 of 2 is for Internal Use Only

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1505 **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Temp Correction Factor No Correction

Corrected Cooler Temp.: 1.0 °C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: JM 12/14/15

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: JY **Date:** 12/14/15

SRF Review: NMG **Date:** 12-14-15

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# : 92279649

92279649

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of 1995925

Section A Required Client Information:

Company:	Earthcon
Address:	1880 W Oak Pkwy Marietta, GA 30062
Email To:	krivera@earthcon.com
Phone:	770-913-2100
Fax:	770-913-7375
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Kristen Rivera
Copy To:	
Purchase Order No.:	
Project Name:	AMC Dalton
Project Number:	02.2014039200

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: VOCs	1,4 Dioxane	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92279649
1	AMW-20	WT	G			12/1/15	16:40	6					6						3	3		001
2	ARW-3	WT	G			12/1/15	12:30	6					6						3	3		002
3	AMW-21	WT	G			12/1/15	12:50	6					6						3	3		003
4	Trip Blank	W						2					2						2			004
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Earthcon	12-11-15	5:00	D. Authry	12-11-15	5:00	
	D. Authry	12-11-15	5:10	Amour Pace	12/12/15	830	16 4 N Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kristen Rivera

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 12/11/15

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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

December 24, 2015

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC DALTON 02.20140392.00
Pace Project No.: 92279751

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Nicole Gasiorowski

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92279751

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92279751

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92279751001	**DMW-3**	Water	12/14/15 11:15	12/15/15 10:00
92279751002	**DMW-13**	Water	12/14/15 12:35	12/15/15 10:00
92279751003	**AMW-14**	Water	12/14/15 13:40	12/15/15 10:00
92279751004	**AMW-17**	Water	12/14/15 11:00	12/15/15 10:00
92279751005	**OBG-W3**	Water	12/14/15 14:50	12/15/15 10:00
92279751006	**DMW-5**	Water	12/14/15 14:45	12/15/15 10:00
92279751007	**AMW-11D**	Water	12/14/15 16:15	12/15/15 10:00

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SAMPLE ANALYTE COUNT

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92279751

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92279751001	**DMW-3**	EPA 8260	NB	12
		EPA 8260B Mod.	DLK	3
92279751002	**DMW-13**	EPA 8260	NB	12
		EPA 8260B Mod.	DLK	3
92279751003	**AMW-14**	EPA 8260	GAW	12
		EPA 8260B Mod.	DLK	3
92279751004	**AMW-17**	EPA 8260	NB	12
		EPA 8260B Mod.	DLK	3
92279751005	**OBG-W3**	EPA 8260	NB	12
		EPA 8260B Mod.	DLK	3
92279751006	**DMW-5**	EPA 8260	NB	12
		EPA 8260B Mod.	DLK	3
92279751007	**AMW-11D**	EPA 8260	NB	12
		EPA 8260B Mod.	DLK	3

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92279751

Sample: DMW-3 **Lab ID: 92279751001** Collected: 12/14/15 11:15 Received: 12/15/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.050	0.016	50		12/21/15 10:23	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.050	0.012	50		12/21/15 10:23	107-06-2	
1,1-Dichloroethene	**0.17**	mg/L	0.050	0.028	50		12/21/15 10:23	75-35-4	
cis-1,2-Dichloroethene	**0.69**	mg/L	0.050	0.0095	50		12/21/15 10:23	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.050	0.024	50		12/21/15 10:23	156-60-5	
Tetrachloroethene	**3.2**	mg/L	0.050	0.023	50		12/21/15 10:23	127-18-4	
1,1,1-Trichloroethane	**0.13**	mg/L	0.050	0.024	50		12/21/15 10:23	71-55-6	
Trichloroethene	**0.19**	mg/L	0.050	0.024	50		12/21/15 10:23	79-01-6	
Vinyl chloride	ND	mg/L	0.050	0.031	50		12/21/15 10:23	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	113	%	70-130		50		12/21/15 10:23	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		50		12/21/15 10:23	17060-07-0	
Toluene-d8 (S)	98	%	70-130		50		12/21/15 10:23	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.11**	mg/L	0.0050	0.0048	2.5		12/20/15 13:54	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	105	%	50-150		1		12/19/15 16:14	17060-07-0	
Toluene-d8 (S)	99	%	50-150		1		12/19/15 16:14	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92279751

Sample: DMW-13 **Lab ID: 92279751002** Collected: 12/14/15 12:35 Received: 12/15/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0050	0.0016	5		12/20/15 08:59	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0050	0.0012	5		12/20/15 08:59	107-06-2	
1,1-Dichloroethene	**0.0033J**	mg/L	0.0050	0.0028	5		12/20/15 08:59	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0050	0.00095	5		12/20/15 08:59	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0050	0.0024	5		12/20/15 08:59	156-60-5	
Tetrachloroethene	**0.94**	mg/L	0.0050	0.0023	5		12/20/15 08:59	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0050	0.0024	5		12/20/15 08:59	71-55-6	
Trichloroethene	**0.0094**	mg/L	0.0050	0.0024	5		12/20/15 08:59	79-01-6	
Vinyl chloride	ND	mg/L	0.0050	0.0031	5		12/20/15 08:59	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	117	%	70-130		5		12/20/15 08:59	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		5		12/20/15 08:59	17060-07-0	
Toluene-d8 (S)	99	%	70-130		5		12/20/15 08:59	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.0029**	mg/L	0.0020	0.0019	1		12/20/15 14:35	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%	50-150		1		12/20/15 14:35	17060-07-0	
Toluene-d8 (S)	97	%	50-150		1		12/20/15 14:35	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92279751

Sample: AMW-14 **Lab ID: 92279751003** Collected: 12/14/15 13:40 Received: 12/15/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0025	0.00080	2.5		12/22/15 03:56	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0025	0.00060	2.5		12/22/15 03:56	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0025	0.0014	2.5		12/22/15 03:56	75-35-4	
cis-1,2-Dichloroethene	**0.034**	mg/L	0.0025	0.00048	2.5		12/22/15 03:56	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0025	0.0012	2.5		12/22/15 03:56	156-60-5	
Tetrachloroethene	**0.29**	mg/L	0.0025	0.0012	2.5		12/22/15 03:56	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0025	0.0012	2.5		12/22/15 03:56	71-55-6	
Trichloroethene	**0.015**	mg/L	0.0025	0.0012	2.5		12/22/15 03:56	79-01-6	
Vinyl chloride	ND	mg/L	0.0025	0.0016	2.5		12/22/15 03:56	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		2.5		12/22/15 03:56	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		2.5		12/22/15 03:56	17060-07-0	
Toluene-d8 (S)	101	%	70-130		2.5		12/22/15 03:56	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/19/15 16:54	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%	50-150		1		12/19/15 16:54	17060-07-0	
Toluene-d8 (S)	100	%	50-150		1		12/19/15 16:54	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92279751

Sample: AMW-17 **Lab ID: 92279751004** Collected: 12/14/15 11:00 Received: 12/15/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/19/15 21:18	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/19/15 21:18	107-06-2	
1,1-Dichloroethene	**0.0057**	mg/L	0.0010	0.00056	1		12/19/15 21:18	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		12/19/15 21:18	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/19/15 21:18	156-60-5	
Tetrachloroethene	**0.0024**	mg/L	0.0010	0.00046	1		12/19/15 21:18	127-18-4	
1,1,1-Trichloroethane	**0.028**	mg/L	0.0010	0.00048	1		12/19/15 21:18	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/19/15 21:18	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/19/15 21:18	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	111	%	70-130		1		12/19/15 21:18	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70-130		1		12/19/15 21:18	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/19/15 21:18	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.0034**	mg/L	0.0020	0.0019	1		12/19/15 17:15	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%	50-150		1		12/19/15 17:15	17060-07-0	
Toluene-d8 (S)	100	%	50-150		1		12/19/15 17:15	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92279751

Sample: OBG-W3 **Lab ID: 92279751005** Collected: 12/14/15 14:50 Received: 12/15/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/19/15 21:35	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/19/15 21:35	107-06-2	
1,1-Dichloroethene	**0.0038**	mg/L	0.0010	0.00056	1		12/19/15 21:35	75-35-4	
cis-1,2-Dichloroethene	**0.0028**	mg/L	0.0010	0.00019	1		12/19/15 21:35	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/19/15 21:35	156-60-5	
Tetrachloroethene	**0.086**	mg/L	0.0010	0.00046	1		12/19/15 21:35	127-18-4	
1,1,1-Trichloroethane	**0.012**	mg/L	0.0010	0.00048	1		12/19/15 21:35	71-55-6	
Trichloroethene	**0.0024**	mg/L	0.0010	0.00047	1		12/19/15 21:35	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/19/15 21:35	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	114	%	70-130		1		12/19/15 21:35	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		12/19/15 21:35	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/19/15 21:35	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/19/15 17:35	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	106	%	50-150		1		12/19/15 17:35	17060-07-0	
Toluene-d8 (S)	98	%	50-150		1		12/19/15 17:35	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92279751

Sample: DMW-5 **Lab ID: 92279751006** Collected: 12/14/15 14:45 Received: 12/15/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	**0.0062**	mg/L	0.0050	0.0016	5		12/20/15 09:17	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0050	0.0012	5		12/20/15 09:17	107-06-2	
1,1-Dichloroethene	**0.035**	mg/L	0.0050	0.0028	5		12/20/15 09:17	75-35-4	
cis-1,2-Dichloroethene	**0.20**	mg/L	0.0050	0.00095	5		12/20/15 09:17	156-59-2	
trans-1,2-Dichloroethene	**0.0074**	mg/L	0.0050	0.0024	5		12/20/15 09:17	156-60-5	
Tetrachloroethene	**0.66**	mg/L	0.0050	0.0023	5		12/20/15 09:17	127-18-4	
1,1,1-Trichloroethane	**0.019**	mg/L	0.0050	0.0024	5		12/20/15 09:17	71-55-6	
Trichloroethene	**0.56**	mg/L	0.0050	0.0024	5		12/20/15 09:17	79-01-6	
Vinyl chloride	ND	mg/L	0.0050	0.0031	5		12/20/15 09:17	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	116	%	70-130		5		12/20/15 09:17	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		5		12/20/15 09:17	17060-07-0	
Toluene-d8 (S)	101	%	70-130		5		12/20/15 09:17	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.0061**	mg/L	0.0020	0.0019	1		12/19/15 17:56	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%	50-150		1		12/19/15 17:56	17060-07-0	
Toluene-d8 (S)	97	%	50-150		1		12/19/15 17:56	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92279751

Sample: AMW-11D **Lab ID: 92279751007** Collected: 12/14/15 16:15 Received: 12/15/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/19/15 21:52	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/19/15 21:52	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/19/15 21:52	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		12/19/15 21:52	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/19/15 21:52	156-60-5	
Tetrachloroethene	**0.0064**	mg/L	0.0010	0.00046	1		12/19/15 21:52	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/19/15 21:52	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/19/15 21:52	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/19/15 21:52	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	112	%	70-130		1		12/19/15 21:52	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130		1		12/19/15 21:52	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		12/19/15 21:52	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/19/15 18:16	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%	50-150		1		12/19/15 18:16	17060-07-0	
Toluene-d8 (S)	96	%	50-150		1		12/19/15 18:16	2037-26-5	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92279751

QC Batch: MSV/34796 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92279751004, 92279751005, 92279751007

METHOD BLANK: 1633893 Matrix: Water
Associated Lab Samples: 92279751004, 92279751005, 92279751007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/19/15 12:12	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/19/15 12:12	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/19/15 12:12	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/19/15 12:12	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/19/15 12:12	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/19/15 12:12	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/19/15 12:12	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/19/15 12:12	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/19/15 12:12	
1,2-Dichloroethane-d4 (S)	%	109	70-130		12/19/15 12:12	
4-Bromofluorobenzene (S)	%	111	70-130		12/19/15 12:12	
Toluene-d8 (S)	%	102	70-130		12/19/15 12:12	

LABORATORY CONTROL SAMPLE: 1633894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.057	114	70-130	
1,1-Dichloroethane	mg/L	.05	0.046	92	70-130	
1,1-Dichloroethene	mg/L	.05	0.052	103	70-132	
1,2-Dichloroethane	mg/L	.05	0.051	103	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.048	95	70-131	
Tetrachloroethene	mg/L	.05	0.052	104	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.048	96	70-130	
Trichloroethene	mg/L	.05	0.052	103	70-130	
Vinyl chloride	mg/L	.05	0.050	101	50-150	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			113	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1633895

Parameter	Units	92279987004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.025	126	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.020	101	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.023	115	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.023	116	70-130	
cis-1,2-Dichloroethene	mg/L	ND	.02	0.021	104	70-130	
Tetrachloroethene	mg/L	3.0 ug/L	.02	0.024	104	70-130	

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.

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92279751

MATRIX SPIKE SAMPLE: 1633895

Parameter	Units	92279987004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.021	104	70-130	
Trichloroethene	mg/L	ND	.02	0.023	115	69-151	
Vinyl chloride	mg/L	ND	.02	0.022	112	70-130	
1,2-Dichloroethane-d4 (S)	%				108	70-130	
4-Bromofluorobenzene (S)	%				115	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1633896

Parameter	Units	92279987007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	110	112	2		
4-Bromofluorobenzene (S)	%	118	111	6		
Toluene-d8 (S)	%	100	98	2		

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92279751

QC Batch: MSV/34806 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92279751002, 92279751006

METHOD BLANK: 1633931 Matrix: Water
Associated Lab Samples: 92279751002, 92279751006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/20/15 01:34	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/20/15 01:34	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/20/15 01:34	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/20/15 01:34	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/20/15 01:34	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/20/15 01:34	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/20/15 01:34	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/20/15 01:34	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/20/15 01:34	
1,2-Dichloroethane-d4 (S)	%	106	70-130		12/20/15 01:34	
4-Bromofluorobenzene (S)	%	115	70-130		12/20/15 01:34	
Toluene-d8 (S)	%	99	70-130		12/20/15 01:34	

LABORATORY CONTROL SAMPLE: 1633932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.056	112	70-130	
1,1-Dichloroethane	mg/L	.05	0.046	92	70-130	
1,1-Dichloroethene	mg/L	.05	0.051	102	70-132	
1,2-Dichloroethane	mg/L	.05	0.052	104	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.048	95	70-131	
Tetrachloroethene	mg/L	.05	0.048	95	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.048	96	70-130	
Trichloroethene	mg/L	.05	0.051	102	70-130	
Vinyl chloride	mg/L	.05	0.049	99	50-150	
1,2-Dichloroethane-d4 (S)	%			108	70-130	
4-Bromofluorobenzene (S)	%			114	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1633934

Parameter	Units	92279911007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	5	6.5	130	70-130	
1,1-Dichloroethane	mg/L	ND	5	5.2	105	70-130	
1,1-Dichloroethene	mg/L	ND	5	5.7	113	70-166	
1,2-Dichloroethane	mg/L	ND	5	5.9	118	70-130	
cis-1,2-Dichloroethene	mg/L	ND	5	5.4	107	70-130	
Tetrachloroethene	mg/L	ND	5	5.4	108	70-130	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92279751

MATRIX SPIKE SAMPLE: 1633934

Parameter	Units	92279911007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	5	5.4	107	70-130	
Trichloroethene	mg/L	ND	5	5.6	112	69-151	
Vinyl chloride	mg/L	ND	5	5.4	108	70-130	
1,2-Dichloroethane-d4 (S)	%				106	70-130	
4-Bromofluorobenzene (S)	%				110	70-130	
Toluene-d8 (S)	%				101	70-130	

MATRIX SPIKE SAMPLE: 1633935

Parameter	Units	92279649003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	4	5.2	130	70-130	
1,1-Dichloroethane	mg/L	ND	4	4.2	104	70-130	
1,1-Dichloroethene	mg/L	ND	4	4.6	115	70-166	
1,2-Dichloroethane	mg/L	ND	4	4.6	114	70-130	
cis-1,2-Dichloroethene	mg/L	0.86	4	5.1	106	70-130	
Tetrachloroethene	mg/L	17.9	4	22.0	104	70-130	
trans-1,2-Dichloroethene	mg/L	ND	4	4.3	108	70-130	
Trichloroethene	mg/L	0.40	4	5.0	115	69-151	
Vinyl chloride	mg/L	ND	4	4.5	113	70-130	
1,2-Dichloroethane-d4 (S)	%				106	70-130	
4-Bromofluorobenzene (S)	%				111	70-130	
Toluene-d8 (S)	%				102	70-130	

SAMPLE DUPLICATE: 1633933

Parameter	Units	92279911008 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	107	108	1		
4-Bromofluorobenzene (S)	%	117	116	1		
Toluene-d8 (S)	%	100	99	1		

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92279751

SAMPLE DUPLICATE: 1633936

Parameter	Units	92279911005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	6.8J ug/L	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	110	108	2		
4-Bromofluorobenzene (S)	%	118	118	0		
Toluene-d8 (S)	%	100	101	0		

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92279751

QC Batch: MSV/34815 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92279751001

METHOD BLANK: 1634014 Matrix: Water
Associated Lab Samples: 92279751001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/21/15 00:23	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/21/15 00:23	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/21/15 00:23	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/21/15 00:23	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/21/15 00:23	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/21/15 00:23	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/21/15 00:23	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/21/15 00:23	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/21/15 00:23	
1,2-Dichloroethane-d4 (S)	%	105	70-130		12/21/15 00:23	
4-Bromofluorobenzene (S)	%	116	70-130		12/21/15 00:23	
Toluene-d8 (S)	%	99	70-130		12/21/15 00:23	

LABORATORY CONTROL SAMPLE: 1634015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.051	102	70-130	
1,1-Dichloroethane	mg/L	.05	0.042	83	70-130	
1,1-Dichloroethene	mg/L	.05	0.041	82	70-132	
1,2-Dichloroethane	mg/L	.05	0.046	91	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.043	85	70-131	
Tetrachloroethene	mg/L	.05	0.048	95	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.042	84	70-130	
Trichloroethene	mg/L	.05	0.049	97	70-130	
Vinyl chloride	mg/L	.05	0.043	85	50-150	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			114	70-130	
Toluene-d8 (S)	%			97	70-130	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92279751

QC Batch: MSV/34857 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92279751003

METHOD BLANK: 1634994 Matrix: Water
Associated Lab Samples: 92279751003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/21/15 18:02	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/21/15 18:02	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/21/15 18:02	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/21/15 18:02	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/21/15 18:02	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/21/15 18:02	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/21/15 18:02	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/21/15 18:02	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/21/15 18:02	
1,2-Dichloroethane-d4 (S)	%	95	70-130		12/21/15 18:02	
4-Bromofluorobenzene (S)	%	103	70-130		12/21/15 18:02	
Toluene-d8 (S)	%	109	70-130		12/21/15 18:02	

LABORATORY CONTROL SAMPLE: 1634995

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.055	111	70-130	
1,1-Dichloroethane	mg/L	.05	0.048	95	70-130	
1,1-Dichloroethene	mg/L	.05	0.048	96	70-132	
1,2-Dichloroethane	mg/L	.05	0.050	99	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.048	96	70-131	
Tetrachloroethene	mg/L	.05	0.048	96	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.050	100	70-130	
Trichloroethene	mg/L	.05	0.054	107	70-130	
Vinyl chloride	mg/L	.05	0.049	98	50-150	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92279751

QC Batch: MSV/34801 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92279751001, 92279751003, 92279751004, 92279751005, 92279751006, 92279751007

METHOD BLANK: 1633915 Matrix: Water
Associated Lab Samples: 92279751001, 92279751003, 92279751004, 92279751005, 92279751006, 92279751007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	0.0019	12/19/15 15:34	
1,2-Dichloroethane-d4 (S)	%	104	50-150		12/19/15 15:34	
Toluene-d8 (S)	%	101	50-150		12/19/15 15:34	

LABORATORY CONTROL SAMPLE: 1633916

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.019	94	71-125	
1,2-Dichloroethane-d4 (S)	%			102	50-150	
Toluene-d8 (S)	%			100	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1633917 1633918

Parameter	Units	92279977001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	mg/L	ND	.02	.02	0.019	0.019	94	95	50-150	1	30	
1,2-Dichloroethane-d4 (S)	%						104	103	50-150		150	
Toluene-d8 (S)	%						97	99	50-150		150	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92279751

QC Batch: MSV/34816
QC Batch Method: EPA 8260B Mod.
Analysis Method: EPA 8260B Mod.
Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92279751002

METHOD BLANK: 1634017 Matrix: Water
Associated Lab Samples: 92279751002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	0.0019	12/20/15 13:13	
1,2-Dichloroethane-d4 (S)	%	105	50-150		12/20/15 13:13	
Toluene-d8 (S)	%	96	50-150		12/20/15 13:13	

LABORATORY CONTROL SAMPLE: 1634018

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.018	92	71-125	
1,2-Dichloroethane-d4 (S)	%			104	50-150	
Toluene-d8 (S)	%			95	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1634019 1634020

Parameter	Units	92280269005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	mg/L	0.019	.02	.02	0.034	0.032	77	67	50-150	6	30	
1,2-Dichloroethane-d4 (S)	%						103	104	50-150		150	
Toluene-d8 (S)	%						96	97	50-150		150	

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QUALIFIERS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92279751

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92279751

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92279751001	**DMW-3**	EPA 8260	MSV/34815		
92279751002	**DMW-13**	EPA 8260	MSV/34806		
92279751003	**AMW-14**	EPA 8260	MSV/34857		
92279751004	**AMW-17**	EPA 8260	MSV/34796		
92279751005	**OBG-W3**	EPA 8260	MSV/34796		
92279751006	**DMW-5**	EPA 8260	MSV/34806		
92279751007	**AMW-11D**	EPA 8260	MSV/34796		
92279751001	**DMW-3**	EPA 8260B Mod.	MSV/34801		
92279751002	**DMW-13**	EPA 8260B Mod.	MSV/34816		
92279751003	**AMW-14**	EPA 8260B Mod.	MSV/34801		
92279751004	**AMW-17**	EPA 8260B Mod.	MSV/34801		
92279751005	**OBG-W3**	EPA 8260B Mod.	MSV/34801		
92279751006	**DMW-5**	EPA 8260B Mod.	MSV/34801		
92279751007	**AMW-11D**	EPA 8260B Mod.	MSV/34801		

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Pace Analytical®	Document Name: **Sample Condition Upon Receipt(SCUR)**	Document Revised: 26OCT2015 Page 1 of 2
	Document No.: **F-CHR-CS-003-rev.17**	Issuing Authority: Pace Huntersville Quality Office

Sample Condition Upon Receipt

Client Name: Earth

Project #: WO# : 92279751

92279751

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

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

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

Thermometer Used: ☑ T1505 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.8 **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C **Correction Factor:** 0.0 °C **Date and Initials of Person Examining Contents:** TM 12/15

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

If Yes to either question, fill out a Regulated Soil Checklist and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.
-Includes Date/Time/ID/Analysis Matrix: WT				
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC,LLHg	☐ Yes	☐ No	☑ N/A	
Samples checked for dechlorization	☐ Yes	☐ No	☑ N/A	14.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if purchased):_____				

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

Person Contacted:_____ Date/Time:_____

Comments/Resolution:_____

Project Manager SCURF Review: NMG NMG **Date:** 12/15/15 12/15/15

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).

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of 1995929

Section A Required Client Information:

Company: Earth Con
Address: 1880 West Oak Pkwy
Marietta, GA 30062
Email To: krivera@earthcon.com
Phone: 770-413-2100 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Kristen Rivera
Copy To:
Purchase Order No.:
Project Name: AMC Dalton
Project Number: 02 20140392.00

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 7457-1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: VOCs	1,4 Dioxane	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PMW-3	WT	G			12/14/15	11:15		6				6					Y	3	3		92279751 001
2	PMW-13	WT	G			12/14/15	1235		6				6					Y	3	3		002
3	AMW-14	WT	G			12/14/15	1340		6				6					Y	3	3		003
4	AMW-17	WT	G			12/14/15	1100		6				6					Y	3	3		004
5	OBG-W3	WT	G			12/14/15	1450		6				6					Y	3	3		005
6	DMW-5	WT	G			12/14/15	1445		6				6					Y	3	2		006
7	AMW-11D	WT	G			12/14/15	1615		6				6					Y	3	2		007
8																						
9																						
10																						
11																						
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)
	Keaton Henry / Earth Con	12-14-15	4:40	D. Anthony	12-14-15	4:40				
	D. Anthony	12-14-15	5:05	JOHNNIE PACHVL	12-15-15	1000	2.8	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keaton Henry TC V Notes
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/14/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

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

December 24, 2015

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on December 16, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Nicole Gasiorowski

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

Greenwood Certification IDs
816 Durst Avenue East, Greenwood, SC 29649
South Carolina Laboratory ID #: 24562
North Carolina Divison of Water Resources Certification number 25
Florida Certification number E87633
Virginia VELAP ID: 460250
Asbestos NVLAP accreditation: 101410-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92279992001	**AMW-13**	Water	12/14/15 16:30	12/16/15 10:30
92279992002	**ARW-2**	Water	12/15/15 10:05	12/16/15 10:30
92279992003	**ARW-4**	Water	12/15/15 10:30	12/16/15 10:30
92279992004	**OBG-W8**	Water	12/15/15 10:10	12/16/15 10:30
92279992005	**DMW-2**	Water	12/15/15 12:05	12/16/15 10:30
92279992006	**DMW-1**	Water	12/15/15 16:00	12/16/15 10:30
92279992007	**AMW-2**	Water	12/15/15 12:50	12/16/15 10:30
92279992008	**TRIP BLANK**	Water	12/15/15 00:00	12/16/15 10:30

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SAMPLE ANALYTE COUNT

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92279992001	**AMW-13**	EPA 8260	NB	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92279992002	**ARW-2**	EPA 8260	NB	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92279992003	**ARW-4**	EPA 6010	JMW	7	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	NB	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92279992004	**OBG-W8**	EPA 8260	NB	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92279992005	**DMW-2**	RSK 175	DR1	3	PASI-M
		EPA 300.0	CDC	2	PASI-G
		EPA 300.0	CDC	2	PASI-W
		EPA 8260	NB	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 4500-S2D	MSH	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	MDW	1	PASI-A
92279992006	**DMW-1**	RSK 175	DR1	3	PASI-M
		EPA 300.0	CDC	2	PASI-G
		EPA 300.0	CDC	2	PASI-W
		EPA 8260	NB	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 4500-S2D	MSH	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	MDW	1	PASI-A
92279992007	**AMW-2**	EPA 8260	NB	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92279992008	**TRIP BLANK**	EPA 8260	NB	12	PASI-C

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ANALYTICAL RESULTS

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

Sample: AMW-13 **Lab ID: 92279992001** Collected: 12/14/15 16:30 Received: 12/16/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.20	0.064	200		12/23/15 05:52	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.20	0.048	200		12/23/15 05:52	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.20	0.11	200		12/23/15 05:52	75-35-4	
cis-1,2-Dichloroethene	**1.1**	mg/L	0.20	0.038	200		12/23/15 05:52	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.20	0.098	200		12/23/15 05:52	156-60-5	
Tetrachloroethene	**22.2**	mg/L	0.20	0.092	200		12/23/15 05:52	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.20	0.096	200		12/23/15 05:52	71-55-6	
Trichloroethene	**0.67**	mg/L	0.20	0.094	200		12/23/15 05:52	79-01-6	
Vinyl chloride	ND	mg/L	0.20	0.12	200		12/23/15 05:52	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		200		12/23/15 05:52	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		200		12/23/15 05:52	17060-07-0	
Toluene-d8 (S)	101	%	70-130		200		12/23/15 05:52	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/19/15 19:37	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%	50-150		1		12/19/15 19:37	17060-07-0	
Toluene-d8 (S)	101	%	50-150		1		12/19/15 19:37	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

Sample: ARW-2 **Lab ID: 92279992002** Collected: 12/15/15 10:05 Received: 12/16/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.010	0.0032	10		12/23/15 06:09	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.010	0.0024	10		12/23/15 06:09	107-06-2	
1,1-Dichloroethene	**0.020**	mg/L	0.010	0.0056	10		12/23/15 06:09	75-35-4	
cis-1,2-Dichloroethene	**0.12**	mg/L	0.010	0.0019	10		12/23/15 06:09	156-59-2	
trans-1,2-Dichloroethene	**0.0059J**	mg/L	0.010	0.0049	10		12/23/15 06:09	156-60-5	
Tetrachloroethene	**1.4**	mg/L	0.010	0.0046	10		12/23/15 06:09	127-18-4	
1,1,1-Trichloroethane	**0.026**	mg/L	0.010	0.0048	10		12/23/15 06:09	71-55-6	
Trichloroethene	**0.054**	mg/L	0.010	0.0047	10		12/23/15 06:09	79-01-6	
Vinyl chloride	ND	mg/L	0.010	0.0062	10		12/23/15 06:09	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		10		12/23/15 06:09	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		10		12/23/15 06:09	17060-07-0	
Toluene-d8 (S)	100	%	70-130		10		12/23/15 06:09	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.0027**	mg/L	0.0020	0.0019	1		12/19/15 19:58	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	105	%	50-150		1		12/19/15 19:58	17060-07-0	
Toluene-d8 (S)	100	%	50-150		1		12/19/15 19:58	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

Sample: ARW-4 **Lab ID: 92279992003** Collected: 12/15/15 10:30 Received: 12/16/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A								
Arsenic	ND	mg/L	0.010	0.0050	1	12/17/15 19:00	12/22/15 18:49	7440-38-2	
Barium	**0.31**	mg/L	0.0050	0.0025	1	12/17/15 19:00	12/22/15 18:49	7440-39-3	
Cadmium	ND	mg/L	0.0010	0.00050	1	12/17/15 19:00	12/22/15 18:49	7440-43-9	
Chromium	**0.026**	mg/L	0.0050	0.0025	1	12/17/15 19:00	12/22/15 18:49	7440-47-3	
Lead	ND	mg/L	0.0050	0.0025	1	12/17/15 19:00	12/22/15 18:49	7439-92-1	
Selenium	ND	mg/L	0.010	0.0050	1	12/17/15 19:00	12/22/15 18:49	7782-49-2	
Silver	ND	mg/L	0.0050	0.0025	1	12/17/15 19:00	12/22/15 18:49	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	mg/L	0.00020	0.00010	1	12/19/15 18:30	12/21/15 12:02	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.20	0.064	200		12/23/15 06:26	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.20	0.048	200		12/23/15 06:26	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.20	0.11	200		12/23/15 06:26	75-35-4	
cis-1,2-Dichloroethene	**2.3**	mg/L	0.20	0.038	200		12/23/15 06:26	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.20	0.098	200		12/23/15 06:26	156-60-5	
Tetrachloroethene	**25.2**	mg/L	0.20	0.092	200		12/23/15 06:26	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.20	0.096	200		12/23/15 06:26	71-55-6	
Trichloroethene	**0.96**	mg/L	0.20	0.094	200		12/23/15 06:26	79-01-6	
Vinyl chloride	ND	mg/L	0.20	0.12	200		12/23/15 06:26	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		200		12/23/15 06:26	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		200		12/23/15 06:26	17060-07-0	
Toluene-d8 (S)	101	%	70-130		200		12/23/15 06:26	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.0023**	mg/L	0.0020	0.0019	1		12/19/15 20:18	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	105	%	50-150		1		12/19/15 20:18	17060-07-0	
Toluene-d8 (S)	101	%	50-150		1		12/19/15 20:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

Sample: OBG-W8 **Lab ID: 92279992004** Collected: 12/15/15 10:10 Received: 12/16/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/22/15 14:12	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/22/15 14:12	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/22/15 14:12	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		12/22/15 14:12	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/22/15 14:12	156-60-5	
Tetrachloroethene	**0.0014**	mg/L	0.0010	0.00046	1		12/22/15 14:12	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/22/15 14:12	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/22/15 14:12	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/22/15 14:12	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		12/22/15 14:12	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		12/22/15 14:12	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/22/15 14:12	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/19/15 20:39	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%	50-150		1		12/19/15 20:39	17060-07-0	
Toluene-d8 (S)	98	%	50-150		1		12/19/15 20:39	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

Sample: DMW-2 **Lab ID: 92279992005** Collected: 12/15/15 12:05 Received: 12/16/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	mg/L	0.010	0.0050	1		12/18/15 19:15	74-84-0	
Ethene	ND	mg/L	0.010	0.00047	1		12/18/15 19:15	74-85-1	
Methane	**0.0036J**	mg/L	0.010	0.00063	1		12/18/15 19:15	74-82-8	
3000 IC Anions 28 Days, GWD	Analytical Method: EPA 300.0								
Chloride	**1.9**	mg/L	1.0	0.10	1		12/22/15 12:36	16887-00-6	
Sulfate	**24.4**	mg/L	1.0	0.40	1		12/22/15 12:36	14808-79-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/22/15 14:29	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/22/15 14:29	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/22/15 14:29	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		12/22/15 14:29	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/22/15 14:29	156-60-5	
Tetrachloroethene	**0.00069J**	mg/L	0.0010	0.00046	1		12/22/15 14:29	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/22/15 14:29	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/22/15 14:29	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/22/15 14:29	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		12/22/15 14:29	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		12/22/15 14:29	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		12/22/15 14:29	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.0065**	mg/L	0.0020	0.0019	1		12/19/15 20:59	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	106	%	50-150		1		12/19/15 20:59	17060-07-0	
Toluene-d8 (S)	98	%	50-150		1		12/19/15 20:59	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**160**	mg/L	5.0	1.0	1		12/22/15 15:58		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		12/22/15 20:09	18496-25-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.17**	mg/L	0.020	0.010	1		12/16/15 19:19		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**0.91J**	mg/L	1.0	0.50	1		12/23/15 20:37	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

Sample: DMW-1 **Lab ID: 92279992006** Collected: 12/15/15 16:00 Received: 12/16/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	mg/L	0.010	0.0050	1		12/21/15 09:28	74-84-0	
Ethene	ND	mg/L	0.010	0.00047	1		12/21/15 09:28	74-85-1	
Methane	**0.0021J**	mg/L	0.010	0.00063	1		12/21/15 09:28	74-82-8	
3000 IC Anions 28 Days, GWD	Analytical Method: EPA 300.0								
Chloride	**2.6**	mg/L	1.0	0.10	1		12/22/15 13:00	16887-00-6	
Sulfate	**5.7**	mg/L	1.0	0.40	1		12/22/15 13:00	14808-79-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	**0.012**	mg/L	0.0050	0.0016	5		12/23/15 06:43	75-34-3	
1,2-Dichloroethane	**0.0019J**	mg/L	0.0050	0.0012	5		12/23/15 06:43	107-06-2	
1,1-Dichloroethene	**0.65**	mg/L	0.0050	0.0028	5		12/23/15 06:43	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0050	0.00095	5		12/23/15 06:43	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0050	0.0024	5		12/23/15 06:43	156-60-5	
Tetrachloroethene	**0.0040J**	mg/L	0.0050	0.0023	5		12/23/15 06:43	127-18-4	
1,1,1-Trichloroethane	**0.40**	mg/L	0.0050	0.0024	5		12/23/15 06:43	71-55-6	
Trichloroethene	ND	mg/L	0.0050	0.0024	5		12/23/15 06:43	79-01-6	
Vinyl chloride	ND	mg/L	0.0050	0.0031	5		12/23/15 06:43	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		5		12/23/15 06:43	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		5		12/23/15 06:43	17060-07-0	
Toluene-d8 (S)	100	%	70-130		5		12/23/15 06:43	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.011**	mg/L	0.0020	0.0019	1		12/19/15 21:20	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	109	%	50-150		1		12/19/15 21:20	17060-07-0	
Toluene-d8 (S)	97	%	50-150		1		12/19/15 21:20	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**246**	mg/L	5.0	1.0	1		12/22/15 16:11		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		12/22/15 20:09	18496-25-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.037**	mg/L	0.020	0.010	1		12/16/15 19:25		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**1.6**	mg/L	1.0	0.50	1		12/23/15 11:33	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

Sample: AMW-2 **Lab ID: 92279992007** Collected: 12/15/15 12:50 Received: 12/16/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.020	0.0064	20		12/23/15 07:00	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.020	0.0048	20		12/23/15 07:00	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.020	0.011	20		12/23/15 07:00	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.020	0.0038	20		12/23/15 07:00	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.020	0.0098	20		12/23/15 07:00	156-60-5	
Tetrachloroethene	**2.1**	mg/L	0.020	0.0092	20		12/23/15 07:00	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.020	0.0096	20		12/23/15 07:00	71-55-6	
Trichloroethene	ND	mg/L	0.020	0.0094	20		12/23/15 07:00	79-01-6	
Vinyl chloride	ND	mg/L	0.020	0.012	20		12/23/15 07:00	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		20		12/23/15 07:00	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		20		12/23/15 07:00	17060-07-0	
Toluene-d8 (S)	100	%	70-130		20		12/23/15 07:00	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/19/15 21:40	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%	50-150		1		12/19/15 21:40	17060-07-0	
Toluene-d8 (S)	98	%	50-150		1		12/19/15 21:40	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

Sample: TRIP BLANK **Lab ID: 92279992008** Collected: 12/15/15 00:00 Received: 12/16/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/22/15 13:21	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/22/15 13:21	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/22/15 13:21	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		12/22/15 13:21	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/22/15 13:21	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		12/22/15 13:21	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/22/15 13:21	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/22/15 13:21	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/22/15 13:21	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		12/22/15 13:21	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		12/22/15 13:21	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		12/22/15 13:21	2037-26-5	

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QUALITY CONTROL DATA

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

QC Batch: AIR/24876
QC Batch Method: RSK 175
Analysis Method: RSK 175
Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92279992005

METHOD BLANK: 2161064
Matrix: Water
Associated Lab Samples: 92279992005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethane	mg/L	ND	0.010	0.0050	12/18/15 16:12	
Ethene	mg/L	ND	0.010	0.00047	12/18/15 16:12	
Methane	mg/L	0.0017J	0.010	0.00063	12/18/15 16:12	

LABORATORY CONTROL SAMPLE & LCSD: 2161065 2161066

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	mg/L	.11	0.12	0.11	101	100	85-115	1	20	
Ethene	mg/L	.11	0.11	0.11	101	100	85-115	1	20	
Methane	mg/L	.061	0.061	0.061	100	100	85-115	0	20	

SAMPLE DUPLICATE: 2162542

Parameter	Units	92280047001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	mg/L	ND	ND		20	
Ethene	mg/L	1.4J ug/L	0.0012J		20	
Methane	mg/L	45.5 ug/L	0.043	7	20	

SAMPLE DUPLICATE: 2162543

Parameter	Units	92280054002 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	mg/L	ND	ND		20	
Ethene	mg/L	ND	ND		20	
Methane	mg/L	2.6J ug/L	0.0026J		20	

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QUALITY CONTROL DATA

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

QC Batch: AIR/24880
QC Batch Method: RSK 175
Analysis Method: RSK 175
Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92279992006

METHOD BLANK: 2161552 Matrix: Water
Associated Lab Samples: 92279992006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethane	mg/L	ND	0.010	0.0050	12/21/15 08:57	
Ethene	mg/L	ND	0.010	0.00047	12/21/15 08:57	
Methane	mg/L	0.0016J	0.010	0.00063	12/21/15 08:57	

LABORATORY CONTROL SAMPLE & LCSD: 2161553 2161554

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	mg/L	.11	0.10	0.11	91	93	85-115	2	20	
Ethene	mg/L	.11	0.096	0.099	90	93	85-115	3	20	
Methane	mg/L	.061	0.056	0.057	93	94	85-115	1	20	

SAMPLE DUPLICATE: 2163422

Parameter	Units	92279992006 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	mg/L	ND	ND		20	
Ethene	mg/L	ND	ND		20	
Methane	mg/L	0.0021J	0.0024J		20	

SAMPLE DUPLICATE: 2163423

Parameter	Units	92280194004 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	mg/L	ND	ND		20	
Ethene	mg/L	ND	ND		20	
Methane	mg/L	1.7J ug/L	0.0012J		20	

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QUALITY CONTROL DATA

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

QC Batch: GWD/2758 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 3000 IC Anions, GWD
Associated Lab Samples: 92279992005, 92279992006

METHOD BLANK: 1635104 Matrix: Water
Associated Lab Samples: 92279992005, 92279992006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.10	12/22/15 09:53	
Sulfate	mg/L	ND	1.0	0.40	12/22/15 09:53	

LABORATORY CONTROL SAMPLE: 1635105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.0	106	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635106 1635107

Parameter	Units	92279612001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.4	50	50	53.9	54.8	97	99	90-110	2	20	
Sulfate	mg/L	11.5	50	50	59.4	60.2	96	97	90-110	1	20	

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QUALITY CONTROL DATA

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

QC Batch: MERP/8799
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 92279992003

METHOD BLANK: 1632840
Matrix: Water
Associated Lab Samples: 92279992003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00010	12/21/15 11:41	

LABORATORY CONTROL SAMPLE: 1632841

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0021	84	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1632842 1632844

Parameter	Units	92279477001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	.0025	.0025	0.0024	0.0019	92	75	75-125	20	25	

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QUALITY CONTROL DATA

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

QC Batch: MPRP/20314
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 92279992003

METHOD BLANK: 1631803 Matrix: Water
Associated Lab Samples: 92279992003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.010	0.0050	12/22/15 18:19	
Barium	mg/L	ND	0.0050	0.0025	12/22/15 18:19	
Cadmium	mg/L	ND	0.0010	0.00050	12/22/15 18:19	
Chromium	mg/L	ND	0.0050	0.0025	12/22/15 18:19	
Lead	mg/L	ND	0.0050	0.0025	12/22/15 18:19	
Selenium	mg/L	ND	0.010	0.0050	12/22/15 18:19	
Silver	mg/L	ND	0.0050	0.0025	12/22/15 18:19	

LABORATORY CONTROL SAMPLE: 1631804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	.5	0.47	93	80-120	
Barium	mg/L	.5	0.50	101	80-120	
Cadmium	mg/L	.5	0.49	98	80-120	
Chromium	mg/L	.5	0.48	96	80-120	
Lead	mg/L	.5	0.47	94	80-120	
Selenium	mg/L	.5	0.48	97	80-120	
Silver	mg/L	.25	0.24	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1631805 1631806

Parameter	Units	92279774002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	.5	.5	0.47	0.45	94	91	75-125	3	20	
Barium	mg/L	ND	.5	.5	0.51	0.50	103	101	75-125	2	20	
Cadmium	mg/L	ND	.5	.5	0.49	0.48	98	96	75-125	2	20	
Chromium	mg/L	ND	.5	.5	0.48	0.47	96	94	75-125	2	20	
Lead	mg/L	ND	.5	.5	0.47	0.46	94	92	75-125	2	20	
Selenium	mg/L	ND	.5	.5	0.48	0.47	96	94	75-125	2	20	
Silver	mg/L	ND	.25	.25	0.25	0.24	99	96	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

QC Batch: MSV/34862 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92279992004, 92279992005, 92279992008

METHOD BLANK: 1635247 Matrix: Water
Associated Lab Samples: 92279992004, 92279992005, 92279992008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/22/15 12:13	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/22/15 12:13	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/22/15 12:13	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/22/15 12:13	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/22/15 12:13	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/22/15 12:13	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/22/15 12:13	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/22/15 12:13	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/22/15 12:13	
1,2-Dichloroethane-d4 (S)	%	108	70-130		12/22/15 12:13	
4-Bromofluorobenzene (S)	%	103	70-130		12/22/15 12:13	
Toluene-d8 (S)	%	100	70-130		12/22/15 12:13	

LABORATORY CONTROL SAMPLE: 1635248

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.057	114	70-130	
1,1-Dichloroethane	mg/L	.05	0.052	104	70-130	
1,1-Dichloroethene	mg/L	.05	0.054	109	70-132	
1,2-Dichloroethane	mg/L	.05	0.048	97	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.051	103	70-131	
Tetrachloroethene	mg/L	.05	0.053	107	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.052	105	70-130	
Trichloroethene	mg/L	.05	0.054	109	70-130	
Vinyl chloride	mg/L	.05	0.052	104	50-150	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			106	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1635249

Parameter	Units	92280507022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.025	127	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.023	116	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.024	120	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.021	106	70-130	
cis-1,2-Dichloroethene	mg/L	ND	.02	0.023	116	70-130	
Tetrachloroethene	mg/L	ND	.02	0.023	115	70-130	

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QUALITY CONTROL DATA

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

MATRIX SPIKE SAMPLE: 1635249

Parameter	Units	92280507022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.023	116	70-130	
Trichloroethene	mg/L	ND	.02	0.025	123	69-151	
Vinyl chloride	mg/L	ND	.02	0.023	113	70-130	
1,2-Dichloroethane-d4 (S)	%				108	70-130	
4-Bromofluorobenzene (S)	%				106	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1635250

Parameter	Units	92280507021 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	106	109	3		
4-Bromofluorobenzene (S)	%	104	104	0		
Toluene-d8 (S)	%	100	101	1		

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QUALITY CONTROL DATA

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

QC Batch: MSV/34891 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92279992001, 92279992002, 92279992003, 92279992006, 92279992007

METHOD BLANK: 1635840 Matrix: Water
Associated Lab Samples: 92279992001, 92279992002, 92279992003, 92279992006, 92279992007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/23/15 00:44	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/23/15 00:44	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/23/15 00:44	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/23/15 00:44	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/23/15 00:44	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/23/15 00:44	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/23/15 00:44	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/23/15 00:44	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/23/15 00:44	
1,2-Dichloroethane-d4 (S)	%	109	70-130		12/23/15 00:44	
4-Bromofluorobenzene (S)	%	103	70-130		12/23/15 00:44	
Toluene-d8 (S)	%	99	70-130		12/23/15 00:44	

LABORATORY CONTROL SAMPLE: 1635841

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.059	118	70-130	
1,1-Dichloroethane	mg/L	.05	0.053	107	70-130	
1,1-Dichloroethene	mg/L	.05	0.055	110	70-132	
1,2-Dichloroethane	mg/L	.05	0.050	101	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.052	105	70-131	
Tetrachloroethene	mg/L	.05	0.053	106	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.052	104	70-130	
Trichloroethene	mg/L	.05	0.055	109	70-130	
Vinyl chloride	mg/L	.05	0.052	105	50-150	
1,2-Dichloroethane-d4 (S)	%			108	70-130	
4-Bromofluorobenzene (S)	%			106	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

QC Batch: MSV/34801 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92279992001, 92279992002, 92279992003, 92279992004, 92279992005, 92279992006, 92279992007

METHOD BLANK: 1633915 Matrix: Water
Associated Lab Samples: 92279992001, 92279992002, 92279992003, 92279992004, 92279992005, 92279992006, 92279992007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	0.0019	12/19/15 15:34	
1,2-Dichloroethane-d4 (S)	%	104	50-150		12/19/15 15:34	
Toluene-d8 (S)	%	101	50-150		12/19/15 15:34	

LABORATORY CONTROL SAMPLE: 1633916

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.019	94	71-125	
1,2-Dichloroethane-d4 (S)	%			102	50-150	
Toluene-d8 (S)	%			100	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1633917 1633918

Parameter	Units	92279977001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	mg/L	ND	.02	.02	0.019	0.019	94	95	50-150	1	30	
1,2-Dichloroethane-d4 (S)	%						104	103	50-150		150	
Toluene-d8 (S)	%						97	99	50-150		150	

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QUALITY CONTROL DATA

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

QC Batch: WET/42119 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92279992005, 92279992006

METHOD BLANK: 1635091 Matrix: Water
Associated Lab Samples: 92279992005, 92279992006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.0	12/22/15 12:00	

LABORATORY CONTROL SAMPLE: 1635092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	47.9	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635093 1635094

Parameter	Units	92280197001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	13.1	50	50	61.9	61.3	98	96	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635348 1635349

Parameter	Units	92280201003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	16.3	50	50	64.7	65.5	97	98	80-120	1	25	

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QUALITY CONTROL DATA

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

QC Batch: WET/42126 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92279992005, 92279992006

METHOD BLANK: 1635313 Matrix: Water
Associated Lab Samples: 92279992005, 92279992006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.10	12/22/15 20:09	

LABORATORY CONTROL SAMPLE: 1635314

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.51	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635315 1635316

Parameter	Units	92279977001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.49	0.50	99	99	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635317 1635318

Parameter	Units	92280047001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.52	0.55	105	110	90-110	5	10	

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QUALITY CONTROL DATA

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

QC Batch: WETA/25815
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92279992005, 92279992006

METHOD BLANK: 1631016 Matrix: Water
Associated Lab Samples: 92279992005, 92279992006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	0.010	12/16/15 18:51	

LABORATORY CONTROL SAMPLE: 1631017

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1631018 1631019

Parameter	Units	92279986001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	8.0	2.5	2.5	9.1	9.1	42	42	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1631020 1631021

Parameter	Units	92279986002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.85	2.5	2.5	3.1	3.1	91	92	90-110	0	10	

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QUALITY CONTROL DATA

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

QC Batch: WETA/25875 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 92279992005

METHOD BLANK: 1635064 Matrix: Water
Associated Lab Samples: 92279992005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	12/22/15 11:27	

LABORATORY CONTROL SAMPLE: 1635065

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	23.9	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635066 1635067

Parameter	Units	92280054003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	25	25	25.7	25.9	101	102	90-110	1	5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635068 1635069

Parameter	Units	92280197002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.1	25	25	25.9	26.2	99	101	90-110	1	5	

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QUALITY CONTROL DATA

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

QC Batch: WETA/25876 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 92279992006

METHOD BLANK: 1635070 Matrix: Water
Associated Lab Samples: 92279992006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	12/23/15 10:14	

LABORATORY CONTROL SAMPLE: 1635071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	23.7	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635072 1635073

Parameter	Units	92279992006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.6	25	25	25.3	24.1	95	90	90-110	5	5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635074 1635075

Parameter	Units	92280204001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	25	25	25.6	25.6	101	101	90-110	0	5	

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QUALIFIERS

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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.

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TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-G	Pace Analytical Services - Greenwood
PASI-M	Pace Analytical Services - Minneapolis
PASI-W	Pace Analytical Services - Greenwood

ANALYTE QUALIFIERS

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC DALTON 02 20140392.00
Pace Project No.: 92279992

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92279992005	**DMW-2**	RSK 175	AIR/24876		
92279992006	**DMW-1**	RSK 175	AIR/24880		
92279992005	**DMW-2**	EPA 300.0	GWD/2758		
92279992006	**DMW-1**	EPA 300.0	GWD/2758		
92279992003	**ARW-4**	EPA 3010A	MPRP/20314	EPA 6010	ICP/18332
92279992003	**ARW-4**	EPA 7470	MERP/8799	EPA 7470	MERC/8455
92279992001	**AMW-13**	EPA 8260	MSV/34891		
92279992002	**ARW-2**	EPA 8260	MSV/34891		
92279992003	**ARW-4**	EPA 8260	MSV/34891		
92279992004	**OBG-W8**	EPA 8260	MSV/34862		
92279992005	**DMW-2**	EPA 8260	MSV/34862		
92279992006	**DMW-1**	EPA 8260	MSV/34891		
92279992007	**AMW-2**	EPA 8260	MSV/34891		
92279992008	**TRIP BLANK**	EPA 8260	MSV/34862		
92279992001	**AMW-13**	EPA 8260B Mod.	MSV/34801		
92279992002	**ARW-2**	EPA 8260B Mod.	MSV/34801		
92279992003	**ARW-4**	EPA 8260B Mod.	MSV/34801		
92279992004	**OBG-W8**	EPA 8260B Mod.	MSV/34801		
92279992005	**DMW-2**	EPA 8260B Mod.	MSV/34801		
92279992006	**DMW-1**	EPA 8260B Mod.	MSV/34801		
92279992007	**AMW-2**	EPA 8260B Mod.	MSV/34801		
92279992005	**DMW-2**	SM 2320B	WET/42119		
92279992006	**DMW-1**	SM 2320B	WET/42119		
92279992005	**DMW-2**	SM 4500-S2D	WET/42126		
92279992006	**DMW-1**	SM 4500-S2D	WET/42126		
92279992005	**DMW-2**	EPA 353.2	WETA/25815		
92279992006	**DMW-1**	EPA 353.2	WETA/25815		
92279992005	**DMW-2**	SM 5310B	WETA/25875		
92279992006	**DMW-1**	SM 5310B	WETA/25876		

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Pace Analytical www.pacelabs.com	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 06, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.15	Issuing Authorities: Pace Asheville Quality Office

Client Name: Earthres

* Page 2 of 2 is for Internal Use Only

Courier (Circle): (Fed Ex) UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

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

Thermometer Used: IR Gun#5 - 155271998 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0.0 C

Corrected Cooler Temp.: 3.7 C Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: 12/16/15

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☐Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☐Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6. Nitrates
Rush Turn Around Time Requested:	☐Yes ☐No ☐N/A	7.
Sufficient Volume:	☐Yes ☐No ☐N/A	8.
Correct Containers Used:	☐Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☐No ☐N/A	
Containers Intact:	☐Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	
Samples checked for dechlorination:	☐Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

SCURF Review: NMG Date: 12-16-15

SRF Review: NMG Date: 12-17-15

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# : 92279992

92279992

Pace Analytical
www.pacelabs.com

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

1997613

Section A Required Client Information:

Company: EarthCon
Address: 1580 West Oak Pkwy
Marietta, GA 30062
Email To: krivera@earthcon.com
Phone: 770-913-2100 Fax: 770-913-7375
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Kristen Rivera
Copy To:
Purchase Order No.:
Project Name: AMC Dalton
Project Number: 02 20140392.00

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH + ZnAc	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOC	1,4 Dioxane	RCRA	TOC	MNA Gases	Alkalinity	Sulfide	Ion Scan	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	AMW-13					12/14/15	1630		6				6						3	3								92279992001
2	ARW-2					12/15/15	1005		6				6						3	3								002
3	ARW-4					12/15/15	1030		7			1	6						3	3	1							003
4	OBG-W8					12/15/15	10:10		6				6						3	3								004
5	DMW-2					12/15/15	12:05		15	5			6	1			3		3	3		3	3	1	1	1		005
6	AMW-2					12/15/15	1250		6				6						3	3								007
7	DMW-1					12/15/15	1600		15	5			6	1			3		3	3		3	3	1	1	1		006
8	Trip Blank					12/15/15	—		2				2						2									008
9																											
10																											
11																											
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)
Nitrates	SNWood 12/15/15	1615		Brit Deaver	12-15	1615				
					12/16/15	10:30	3.7	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Nolan
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY):

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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

December 31, 2015

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on December 17, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Nicole Gasiorowski

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

Greenwood Certification IDs

816 Durst Avenue East, Greenwood, SC 29649
South Carolina Laboratory ID #: 24562
North Carolina Divison of Water Resources Certification number 25
Florida Certification number E87633
Virginia VELAP ID: 460250
Asbestos NVLAP accreditation: 101410-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92280269001	**RINSATE BLANK-1**	Water	12/15/15 17:00	12/17/15 10:20
92280269002	**RINSATE BLANK-2**	Water	12/15/15 16:30	12/17/15 10:20
92280269003	**RINSATE BLANK-3**	Water	12/16/15 15:45	12/17/15 10:20
92280269004	**DUP-4**	Water	12/16/15 00:00	12/17/15 10:20
92280269005	**DMW-7/DRW-1**	Water	12/16/15 08:30	12/17/15 10:20
92280269006	**DMW-9/DRW-3**	Water	12/16/15 09:00	12/17/15 10:20
92280269007	**OBG-W7**	Water	12/16/15 08:45	12/17/15 10:20
92280269008	**AMW-12**	Water	12/16/15 12:30	12/17/15 10:20
92280269009	**MW-24**	Water	12/16/15 11:30	12/17/15 10:20
92280269010	**DMW-6**	Water	12/16/15 15:15	12/17/15 10:20
92280269011	**TRIP BLANK**	Water	12/16/15 00:00	12/17/15 10:20

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SAMPLE ANALYTE COUNT

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92280269001	**RINSATE BLANK-1**	EPA 8260	NB	12	PASI-C
92280269002	**RINSATE BLANK-2**	EPA 8260	NB	12	PASI-C
92280269003	**RINSATE BLANK-3**	EPA 8260	NB	12	PASI-C
92280269004	**DUP-4**	EPA 8260	GAW	12	PASI-C
92280269005	**DMW-7/DRW-1**	RSK 175	DR1	3	PASI-M
		EPA 300.0	CDC	2	PASI-G
		EPA 300.0	CDC	2	PASI-W
		EPA 8260	GAW	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 4500-S2D	MJP	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	MDW	1	PASI-A
92280269006	**DMW-9/DRW-3**	RSK 175	DR1	3	PASI-M
		EPA 300.0	CDC	2	PASI-G
		EPA 300.0	CDC	2	PASI-W
		EPA 8260	NB	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 4500-S2D	MJP	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	MDW	1	PASI-A
92280269007	**OBG-W7**	RSK 175	DR1	3	PASI-M
		EPA 300.0	CDC	2	PASI-G
		EPA 300.0	CDC	2	PASI-W
		EPA 8260	GAW	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 4500-S2D	MJP	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	MDW	1	PASI-A
92280269008	**AMW-12**	EPA 8260	NB	12	PASI-C
92280269009	**MW-24**	RSK 175	DR1	3	PASI-M
		EPA 300.0	CDC	2	PASI-G
		EPA 300.0	CDC	2	PASI-W
		EPA 8260	NB	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C

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SAMPLE ANALYTE COUNT

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	MLS	1	PASI-A
		SM 4500-S2D	MJP	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	MDW	1	PASI-A
92280269010	**DMW-6**	RSK 175	DR1	3	PASI-M
		EPA 300.0	CDC	2	PASI-G
		EPA 300.0	CDC	2	PASI-W
		EPA 8260	NB	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 4500-S2D	MJP	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	MDW	1	PASI-A
92280269011	**TRIP BLANK**	EPA 8260	NB	12	PASI-C

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

Sample: RINSATE BLANK-1 **Lab ID: 92280269001** Collected: 12/15/15 17:00 Received: 12/17/15 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/26/15 16:01	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/26/15 16:01	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/26/15 16:01	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		12/26/15 16:01	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/26/15 16:01	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		12/26/15 16:01	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/26/15 16:01	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/26/15 16:01	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/26/15 16:01	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	113	%	70-130		1		12/26/15 16:01	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		12/26/15 16:01	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/26/15 16:01	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

Sample: RINSATE BLANK-2 **Lab ID: 92280269002** Collected: 12/15/15 16:30 Received: 12/17/15 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/26/15 16:18	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/26/15 16:18	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/26/15 16:18	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		12/26/15 16:18	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/26/15 16:18	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		12/26/15 16:18	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/26/15 16:18	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/26/15 16:18	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/26/15 16:18	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	115	%	70-130		1		12/26/15 16:18	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		12/26/15 16:18	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		12/26/15 16:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

Sample: RINSATE BLANK-3 **Lab ID: 92280269003** Collected: 12/16/15 15:45 Received: 12/17/15 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/26/15 16:35	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/26/15 16:35	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/26/15 16:35	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		12/26/15 16:35	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/26/15 16:35	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		12/26/15 16:35	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/26/15 16:35	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/26/15 16:35	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/26/15 16:35	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	111	%	70-130		1		12/26/15 16:35	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		12/26/15 16:35	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/26/15 16:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

Sample: DUP-4 **Lab ID: 92280269004** Collected: 12/16/15 00:00 Received: 12/17/15 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.10	0.032	100		12/24/15 22:09	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.10	0.024	100		12/24/15 22:09	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.10	0.056	100		12/24/15 22:09	75-35-4	
cis-1,2-Dichloroethene	**0.49**	mg/L	0.10	0.019	100		12/24/15 22:09	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.10	0.049	100		12/24/15 22:09	156-60-5	
Tetrachloroethene	**10.5**	mg/L	0.10	0.046	100		12/24/15 22:09	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.10	0.048	100		12/24/15 22:09	71-55-6	
Trichloroethene	**0.41**	mg/L	0.10	0.047	100		12/24/15 22:09	79-01-6	
Vinyl chloride	ND	mg/L	0.10	0.062	100		12/24/15 22:09	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		100		12/24/15 22:09	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		100		12/24/15 22:09	17060-07-0	
Toluene-d8 (S)	106	%	70-130		100		12/24/15 22:09	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

Sample: DMW-7/DRW-1 **Lab ID: 92280269005** Collected: 12/16/15 08:30 Received: 12/17/15 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	mg/L	0.010	0.0050	1		12/21/15 15:46	74-84-0	
Ethene	ND	mg/L	0.010	0.00047	1		12/21/15 15:46	74-85-1	
Methane	**0.049**	mg/L	0.010	0.00063	1		12/21/15 15:46	74-82-8	
3000 IC Anions 28 Days, GWD	Analytical Method: EPA 300.0								
Chloride	**74.3**	mg/L	1.0	0.10	1		12/22/15 13:23	16887-00-6	
Sulfate	**8.3**	mg/L	1.0	0.40	1		12/22/15 13:23	14808-79-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	**0.083J**	mg/L	0.10	0.032	100		12/24/15 22:26	75-34-3	
1,2-Dichloroethane	**0.056J**	mg/L	0.10	0.024	100		12/24/15 22:26	107-06-2	
1,1-Dichloroethene	**12.8**	mg/L	0.10	0.056	100		12/24/15 22:26	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.10	0.019	100		12/24/15 22:26	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.10	0.049	100		12/24/15 22:26	156-60-5	
Tetrachloroethene	**0.061J**	mg/L	0.10	0.046	100		12/24/15 22:26	127-18-4	
1,1,1-Trichloroethane	**9.8**	mg/L	0.10	0.048	100		12/24/15 22:26	71-55-6	
Trichloroethene	ND	mg/L	0.10	0.047	100		12/24/15 22:26	79-01-6	
Vinyl chloride	ND	mg/L	0.10	0.062	100		12/24/15 22:26	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		100		12/24/15 22:26	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		100		12/24/15 22:26	17060-07-0	
Toluene-d8 (S)	105	%	70-130		100		12/24/15 22:26	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.019**	mg/L	0.0020	0.0019	1		12/20/15 18:18	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%	50-150		1		12/20/15 18:18	17060-07-0	
Toluene-d8 (S)	99	%	50-150		1		12/20/15 18:18	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**292**	mg/L	5.0	1.0	1		12/23/15 15:58		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		12/23/15 14:30	18496-25-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.020	0.010	1		12/17/15 17:07		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**1.9**	mg/L	1.0	0.50	1		12/23/15 18:42	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

Sample: DMW-9/DRW-3 **Lab ID: 92280269006** Collected: 12/16/15 09:00 Received: 12/17/15 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	mg/L	0.010	0.0050	1		12/21/15 15:55	74-84-0	
Ethene	ND	mg/L	0.010	0.00047	1		12/21/15 15:55	74-85-1	
Methane	**1.1**	mg/L	0.010	0.00063	1		12/21/15 15:55	74-82-8	
3000 IC Anions 28 Days, GWD	Analytical Method: EPA 300.0								
Chloride	**28.1**	mg/L	1.0	0.10	1		12/22/15 13:47	16887-00-6	
Sulfate	**3.1**	mg/L	1.0	0.40	1		12/22/15 13:47	14808-79-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	**0.044**	mg/L	0.020	0.0064	20		12/28/15 23:02	75-34-3	
1,2-Dichloroethane	**0.0089J**	mg/L	0.020	0.0048	20		12/28/15 23:02	107-06-2	
1,1-Dichloroethene	**1.6**	mg/L	0.020	0.011	20		12/28/15 23:02	75-35-4	
cis-1,2-Dichloroethene	**0.022**	mg/L	0.020	0.0038	20		12/28/15 23:02	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.020	0.0098	20		12/28/15 23:02	156-60-5	
Tetrachloroethene	ND	mg/L	0.020	0.0092	20		12/28/15 23:02	127-18-4	
1,1,1-Trichloroethane	**1.3**	mg/L	0.020	0.0096	20		12/28/15 23:02	71-55-6	
Trichloroethene	ND	mg/L	0.020	0.0094	20		12/28/15 23:02	79-01-6	
Vinyl chloride	ND	mg/L	0.020	0.012	20		12/28/15 23:02	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	117	%	70-130		20		12/28/15 23:02	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		20		12/28/15 23:02	17060-07-0	
Toluene-d8 (S)	97	%	70-130		20		12/28/15 23:02	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.017**	mg/L	0.0020	0.0019	1		12/20/15 19:19	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	109	%	50-150		1		12/20/15 19:19	17060-07-0	
Toluene-d8 (S)	98	%	50-150		1		12/20/15 19:19	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**192**	mg/L	5.0	1.0	1		12/23/15 16:12		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		12/23/15 14:30	18496-25-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.020	0.010	1		12/17/15 17:10		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**5.2**	mg/L	1.0	0.50	1		12/23/15 18:53	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

Sample: OBG-W7 **Lab ID: 92280269007** Collected: 12/16/15 08:45 Received: 12/17/15 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	mg/L	0.010	0.0050	1		12/21/15 16:03	74-84-0	
Ethene	ND	mg/L	0.010	0.00047	1		12/21/15 16:03	74-85-1	
Methane	**1.8**	mg/L	0.010	0.00063	1		12/21/15 16:03	74-82-8	
3000 IC Anions 28 Days, GWD	Analytical Method: EPA 300.0								
Chloride	**35.3**	mg/L	1.0	0.10	1		12/22/15 14:10	16887-00-6	
Sulfate	**4.5**	mg/L	1.0	0.40	1		12/22/15 14:10	14808-79-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	**0.12**	mg/L	0.040	0.013	40		12/24/15 23:00	75-34-3	
1,2-Dichloroethane	**0.018J**	mg/L	0.040	0.0096	40		12/24/15 23:00	107-06-2	
1,1-Dichloroethene	**2.5**	mg/L	0.040	0.022	40		12/24/15 23:00	75-35-4	
cis-1,2-Dichloroethene	**0.050**	mg/L	0.040	0.0076	40		12/24/15 23:00	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.040	0.020	40		12/24/15 23:00	156-60-5	
Tetrachloroethene	**0.020J**	mg/L	0.040	0.018	40		12/24/15 23:00	127-18-4	
1,1,1-Trichloroethane	**2.9**	mg/L	0.040	0.019	40		12/24/15 23:00	71-55-6	
Trichloroethene	**0.027J**	mg/L	0.040	0.019	40		12/24/15 23:00	79-01-6	
Vinyl chloride	ND	mg/L	0.040	0.025	40		12/24/15 23:00	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		40		12/24/15 23:00	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		40		12/24/15 23:00	17060-07-0	
Toluene-d8 (S)	106	%	70-130		40		12/24/15 23:00	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.062**	mg/L	0.0020	0.0019	1		12/20/15 19:39	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	110	%	50-150		1		12/20/15 19:39	17060-07-0	
Toluene-d8 (S)	97	%	50-150		1		12/20/15 19:39	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**274**	mg/L	5.0	1.0	1		12/23/15 16:26		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		12/23/15 14:30	18496-25-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.020	0.010	1		12/17/15 17:09		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**1.8**	mg/L	1.0	0.50	1		12/24/15 12:21	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

Sample: AMW-12 **Lab ID: 92280269008** Collected: 12/16/15 12:30 Received: 12/17/15 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.10	0.032	100		12/28/15 21:20	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.10	0.024	100		12/28/15 21:20	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.10	0.056	100		12/28/15 21:20	75-35-4	
cis-1,2-Dichloroethene	**0.50**	mg/L	0.10	0.019	100		12/28/15 21:20	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.10	0.049	100		12/28/15 21:20	156-60-5	
Tetrachloroethene	**13.0**	mg/L	0.10	0.046	100		12/28/15 21:20	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.10	0.048	100		12/28/15 21:20	71-55-6	
Trichloroethene	**0.51**	mg/L	0.10	0.047	100		12/28/15 21:20	79-01-6	
Vinyl chloride	ND	mg/L	0.10	0.062	100		12/28/15 21:20	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	116	%	70-130		100		12/28/15 21:20	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		100		12/28/15 21:20	17060-07-0	
Toluene-d8 (S)	97	%	70-130		100		12/28/15 21:20	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

Sample: MW-24 **Lab ID: 92280269009** Collected: 12/16/15 11:30 Received: 12/17/15 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	mg/L	0.010	0.0050	1		12/21/15 16:11	74-84-0	
Ethene	**0.0042J**	mg/L	0.010	0.00047	1		12/21/15 16:11	74-85-1	
Methane	**0.039**	mg/L	0.010	0.00063	1		12/21/15 16:11	74-82-8	
3000 IC Anions 28 Days, GWD	Analytical Method: EPA 300.0								
Chloride	**36.5**	mg/L	1.0	0.10	1		12/22/15 15:20	16887-00-6	
Sulfate	**8.1**	mg/L	1.0	0.40	1		12/22/15 15:20	14808-79-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	**0.63**	mg/L	0.050	0.016	50		12/27/15 09:25	75-34-3	
1,2-Dichloroethane	**0.016J**	mg/L	0.050	0.012	50		12/27/15 09:25	107-06-2	
1,1-Dichloroethene	**4.7**	mg/L	0.050	0.028	50		12/27/15 09:25	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.050	0.0095	50		12/27/15 09:25	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.050	0.024	50		12/27/15 09:25	156-60-5	
Tetrachloroethene	ND	mg/L	0.050	0.023	50		12/27/15 09:25	127-18-4	
1,1,1-Trichloroethane	**9.5**	mg/L	0.10	0.048	100		12/27/15 22:42	71-55-6	
Trichloroethene	ND	mg/L	0.050	0.024	50		12/27/15 09:25	79-01-6	
Vinyl chloride	ND	mg/L	0.050	0.031	50		12/27/15 09:25	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	114	%	70-130		50		12/27/15 09:25	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70-130		50		12/27/15 09:25	17060-07-0	
Toluene-d8 (S)	101	%	70-130		50		12/27/15 09:25	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.0092**	mg/L	0.0020	0.0019	1		12/20/15 19:59	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	127	%	50-150		1		12/20/15 19:59	17060-07-0	
Toluene-d8 (S)	96	%	50-150		1		12/20/15 19:59	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**286**	mg/L	5.0	1.0	1		12/23/15 16:41		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		12/23/15 14:30	18496-25-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.020	0.010	1		12/17/15 17:19		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**1.5**	mg/L	1.0	0.50	1		12/24/15 12:32	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

Sample: DMW-6 **Lab ID: 92280269010** Collected: 12/16/15 15:15 Received: 12/17/15 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	mg/L	0.010	0.0050	1		12/21/15 16:19	74-84-0	
Ethene	**0.012**	mg/L	0.010	0.00047	1		12/21/15 16:19	74-85-1	
Methane	**0.33**	mg/L	0.010	0.00063	1		12/21/15 16:19	74-82-8	
3000 IC Anions 28 Days, GWD	Analytical Method: EPA 300.0								
Chloride	**2.2**	mg/L	1.0	0.10	1		12/22/15 15:44	16887-00-6	
Sulfate	**10.2**	mg/L	1.0	0.40	1		12/22/15 15:44	14808-79-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	**0.011**	mg/L	0.0010	0.00032	1		12/25/15 06:40	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/25/15 06:40	107-06-2	
1,1-Dichloroethene	**0.016**	mg/L	0.0010	0.00056	1		12/25/15 06:40	75-35-4	
cis-1,2-Dichloroethene	**0.043**	mg/L	0.0010	0.00019	1		12/25/15 06:40	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/25/15 06:40	156-60-5	
Tetrachloroethene	**0.22**	mg/L	0.0025	0.0012	2.5		12/26/15 20:34	127-18-4	
1,1,1-Trichloroethane	**0.031**	mg/L	0.0010	0.00048	1		12/25/15 06:40	71-55-6	
Trichloroethene	**0.031**	mg/L	0.0010	0.00047	1		12/25/15 06:40	79-01-6	
Vinyl chloride	**0.016**	mg/L	0.0010	0.00062	1		12/25/15 06:40	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		12/25/15 06:40	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		12/25/15 06:40	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/25/15 06:40	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.014**	mg/L	0.0020	0.0019	1		12/20/15 20:20	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	108	%	50-150		1		12/20/15 20:20	17060-07-0	
Toluene-d8 (S)	95	%	50-150		1		12/20/15 20:20	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**289**	mg/L	5.0	1.0	1		12/23/15 16:55		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		12/23/15 14:30	18496-25-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.020	0.010	1		12/17/15 17:23		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**2.6**	mg/L	1.0	0.50	1		12/24/15 12:44	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

Sample: TRIP BLANK **Lab ID: 92280269011** Collected: 12/16/15 00:00 Received: 12/17/15 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/24/15 17:51	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/24/15 17:51	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/24/15 17:51	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		12/24/15 17:51	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/24/15 17:51	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		12/24/15 17:51	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/24/15 17:51	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/24/15 17:51	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/24/15 17:51	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		12/24/15 17:51	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		12/24/15 17:51	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/24/15 17:51	2037-26-5	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

QC Batch: AIR/24887 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92280269005, 92280269006, 92280269007, 92280269009, 92280269010

METHOD BLANK: 2162484 Matrix: Water
Associated Lab Samples: 92280269005, 92280269006, 92280269007, 92280269009, 92280269010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethane	mg/L	ND	0.010	0.0050	12/21/15 13:24	
Ethene	mg/L	ND	0.010	0.00047	12/21/15 13:24	
Methane	mg/L	0.0016J	0.010	0.00063	12/21/15 13:24	

LABORATORY CONTROL SAMPLE & LCSD: 2162485 2162486

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	mg/L	.11	0.11	0.11	93	95	85-115	3	20	
Ethene	mg/L	.11	0.099	0.10	93	95	85-115	2	20	
Methane	mg/L	.061	0.057	0.057	94	95	85-115	1	20	

SAMPLE DUPLICATE: 2163424

Parameter	Units	60209793004 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	mg/L	ND	ND		20	
Ethene	mg/L	ND	ND		20	
Methane	mg/L	ND	0.0018J		20	

SAMPLE DUPLICATE: 2163425

Parameter	Units	1258658003 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	mg/L	ND	ND		20	
Ethene	mg/L	ND	ND		20	
Methane	mg/L	79.0 ug/L	0.076	4	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

QC Batch: GWD/2758 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 3000 IC Anions, GWD
Associated Lab Samples: 92280269005, 92280269006, 92280269007, 92280269009, 92280269010

METHOD BLANK: 1635104 Matrix: Water
Associated Lab Samples: 92280269005, 92280269006, 92280269007, 92280269009, 92280269010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.10	12/22/15 09:53	
Sulfate	mg/L	ND	1.0	0.40	12/22/15 09:53	

LABORATORY CONTROL SAMPLE: 1635105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.0	106	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635106 1635107

Parameter	Units	92279612001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.4	50	50	53.9	54.8	97	99	90-110	2	20	
Sulfate	mg/L	11.5	50	50	59.4	60.2	96	97	90-110	1	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

QC Batch: MSV/34921 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92280269011

METHOD BLANK: 1637355 Matrix: Water
Associated Lab Samples: 92280269011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/24/15 16:59	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/24/15 16:59	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/24/15 16:59	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/24/15 16:59	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/24/15 16:59	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/24/15 16:59	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/24/15 16:59	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/24/15 16:59	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/24/15 16:59	
1,2-Dichloroethane-d4 (S)	%	107	70-130		12/24/15 16:59	
4-Bromofluorobenzene (S)	%	107	70-130		12/24/15 16:59	
Toluene-d8 (S)	%	103	70-130		12/24/15 16:59	

LABORATORY CONTROL SAMPLE: 1637356

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.062	123	70-130	
1,1-Dichloroethane	mg/L	.05	0.055	111	70-130	
1,1-Dichloroethene	mg/L	.05	0.057	114	70-132	
1,2-Dichloroethane	mg/L	.05	0.053	105	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.055	109	70-131	
Tetrachloroethene	mg/L	.05	0.058	116	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.056	111	70-130	
Trichloroethene	mg/L	.05	0.060	120	70-130	
Vinyl chloride	mg/L	.05	0.055	110	50-150	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			108	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 1637357

Parameter	Units	92280229006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.026	129	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.025	116	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.025	123	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.022	108	70-130	
cis-1,2-Dichloroethene	mg/L	ND	.02	0.023	114	70-130	
Tetrachloroethene	mg/L	1.0 ug/L	.02	0.024	117	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

MATRIX SPIKE SAMPLE: 1637357

Parameter	Units	92280229006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.024	116	70-130	
Trichloroethene	mg/L	ND	.02	0.024	122	69-151	
Vinyl chloride	mg/L	ND	.02	0.023	115	70-130	
1,2-Dichloroethane-d4 (S)	%				105	70-130	
4-Bromofluorobenzene (S)	%				110	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1637358

Parameter	Units	92280229007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	1.7 ug/L	0.0017	2	30	
1,1-Dichloroethane	mg/L	ND	0.0019	0	30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	23.5 ug/L	0.023	1	30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	110	108	2		
4-Bromofluorobenzene (S)	%	109	108	1		
Toluene-d8 (S)	%	102	100	2		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

QC Batch: MSV/34926 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92280269010

METHOD BLANK: 1637482 Matrix: Water
Associated Lab Samples: 92280269010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/25/15 02:57	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/25/15 02:57	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/25/15 02:57	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/25/15 02:57	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/25/15 02:57	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/25/15 02:57	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/25/15 02:57	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/25/15 02:57	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/25/15 02:57	
1,2-Dichloroethane-d4 (S)	%	107	70-130		12/25/15 02:57	
4-Bromofluorobenzene (S)	%	111	70-130		12/25/15 02:57	
Toluene-d8 (S)	%	101	70-130		12/25/15 02:57	

LABORATORY CONTROL SAMPLE: 1637483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.062	125	70-130	
1,1-Dichloroethane	mg/L	.05	0.055	110	70-130	
1,1-Dichloroethene	mg/L	.05	0.057	114	70-132	
1,2-Dichloroethane	mg/L	.05	0.052	104	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.054	108	70-131	
Tetrachloroethene	mg/L	.05	0.056	112	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.054	108	70-130	
Trichloroethene	mg/L	.05	0.058	117	70-130	
Vinyl chloride	mg/L	.05	0.055	110	50-150	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			111	70-130	
Toluene-d8 (S)	%			100	70-130	

SAMPLE DUPLICATE: 1637485

Parameter	Units	92280267002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	0.0055	0.0050	9	30	
Tetrachloroethene	mg/L	0.035	0.034	2	30	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

SAMPLE DUPLICATE: 1637485

Parameter	Units	92280267002 Result	Dup Result	RPD	Max RPD	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	0.0030	0.0028	10	30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	110	108	2		
4-Bromofluorobenzene (S)	%	107	110	3		
Toluene-d8 (S)	%	100	99	1		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

QC Batch: MSV/34936 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92280269004, 92280269005, 92280269007

METHOD BLANK: 1637524 Matrix: Water
Associated Lab Samples: 92280269004, 92280269005, 92280269007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/24/15 18:45	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/24/15 18:45	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/24/15 18:45	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/24/15 18:45	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/24/15 18:45	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/24/15 18:45	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/24/15 18:45	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/24/15 18:45	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/24/15 18:45	
1,2-Dichloroethane-d4 (S)	%	88	70-130		12/24/15 18:45	
4-Bromofluorobenzene (S)	%	110	70-130		12/24/15 18:45	
Toluene-d8 (S)	%	107	70-130		12/24/15 18:45	

LABORATORY CONTROL SAMPLE: 1637525

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.047	93	70-130	
1,1-Dichloroethane	mg/L	.05	0.041	83	70-130	
1,1-Dichloroethene	mg/L	.05	0.041	81	70-132	
1,2-Dichloroethane	mg/L	.05	0.047	94	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.043	87	70-131	
Tetrachloroethene	mg/L	.05	0.049	97	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.043	87	70-130	
Trichloroethene	mg/L	.05	0.053	106	70-130	
Vinyl chloride	mg/L	.05	0.043	85	50-150	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			107	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

QC Batch: MSV/34941 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92280269001, 92280269002, 92280269003

METHOD BLANK: 1637596 Matrix: Water
Associated Lab Samples: 92280269001, 92280269002, 92280269003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/26/15 15:10	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/26/15 15:10	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/26/15 15:10	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/26/15 15:10	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/26/15 15:10	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/26/15 15:10	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/26/15 15:10	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/26/15 15:10	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/26/15 15:10	
1,2-Dichloroethane-d4 (S)	%	102	70-130		12/26/15 15:10	
4-Bromofluorobenzene (S)	%	109	70-130		12/26/15 15:10	
Toluene-d8 (S)	%	101	70-130		12/26/15 15:10	

LABORATORY CONTROL SAMPLE: 1637597

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.058	117	70-130	
1,1-Dichloroethane	mg/L	.05	0.053	106	70-130	
1,1-Dichloroethene	mg/L	.05	0.055	109	70-132	
1,2-Dichloroethane	mg/L	.05	0.048	95	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.052	103	70-131	
Tetrachloroethene	mg/L	.05	0.055	110	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.052	105	70-130	
Trichloroethene	mg/L	.05	0.059	118	70-130	
Vinyl chloride	mg/L	.05	0.054	107	50-150	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			110	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

QC Batch: MSV/34944 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92280269009

METHOD BLANK: 1637606 Matrix: Water
Associated Lab Samples: 92280269009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/27/15 02:34	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/27/15 02:34	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/27/15 02:34	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/27/15 02:34	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/27/15 02:34	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/27/15 02:34	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/27/15 02:34	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/27/15 02:34	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/27/15 02:34	
1,2-Dichloroethane-d4 (S)	%	109	70-130		12/27/15 02:34	
4-Bromofluorobenzene (S)	%	115	70-130		12/27/15 02:34	
Toluene-d8 (S)	%	100	70-130		12/27/15 02:34	

LABORATORY CONTROL SAMPLE: 1637607

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.062	123	70-130	
1,1-Dichloroethane	mg/L	.05	0.053	107	70-130	
1,1-Dichloroethene	mg/L	.05	0.055	111	70-132	
1,2-Dichloroethane	mg/L	.05	0.053	105	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.052	104	70-131	
Tetrachloroethene	mg/L	.05	0.056	112	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.053	106	70-130	
Trichloroethene	mg/L	.05	0.059	119	70-130	
Vinyl chloride	mg/L	.05	0.053	107	50-150	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			116	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

QC Batch: MSV/34965 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92280269006, 92280269008

METHOD BLANK: 1638085 Matrix: Water
Associated Lab Samples: 92280269006, 92280269008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/28/15 19:03	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/28/15 19:03	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/28/15 19:03	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/28/15 19:03	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/28/15 19:03	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/28/15 19:03	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/28/15 19:03	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/28/15 19:03	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/28/15 19:03	
1,2-Dichloroethane-d4 (S)	%	108	70-130		12/28/15 19:03	
4-Bromofluorobenzene (S)	%	117	70-130		12/28/15 19:03	
Toluene-d8 (S)	%	99	70-130		12/28/15 19:03	

LABORATORY CONTROL SAMPLE: 1638086

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.055	111	70-130	
1,1-Dichloroethane	mg/L	.05	0.045	90	70-130	
1,1-Dichloroethene	mg/L	.05	0.049	98	70-132	
1,2-Dichloroethane	mg/L	.05	0.047	94	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.046	92	70-131	
Tetrachloroethene	mg/L	.05	0.060	120	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.045	91	70-130	
Trichloroethene	mg/L	.05	0.055	110	70-130	
Vinyl chloride	mg/L	.05	0.045	89	50-150	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			118	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE SAMPLE: 1638087

Parameter	Units	92280234012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.026	132	70-130	M1
1,1-Dichloroethane	mg/L	ND	.02	0.023	104	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.026	113	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.022	107	70-130	
cis-1,2-Dichloroethene	mg/L	ND	.02	0.023	102	70-130	
Tetrachloroethene	mg/L	ND	.02	0.027	135	70-130	M1

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

MATRIX SPIKE SAMPLE: 1638087

Parameter	Units	92280234012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.021	103	70-130	
Trichloroethene	mg/L	3.0 ug/L	.02	0.030	133	69-151	
Vinyl chloride	mg/L	ND	.02	0.020	100	70-130	
1,2-Dichloroethane-d4 (S)	%				106	70-130	
4-Bromofluorobenzene (S)	%				118	70-130	
Toluene-d8 (S)	%				95	70-130	

SAMPLE DUPLICATE: 1638088

Parameter	Units	92280234021 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	21.9 ug/L	0.022	1	30	
1,1-Dichloroethane	mg/L	ND	0.0043	1	30	
1,1-Dichloroethene	mg/L	21.2 ug/L	0.021	0	30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	109	106	2		
4-Bromofluorobenzene (S)	%	116	119	2		
Toluene-d8 (S)	%	98	98	0		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

QC Batch: MSV/34816 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92280269005, 92280269006, 92280269007, 92280269009, 92280269010

METHOD BLANK: 1634017 Matrix: Water
Associated Lab Samples: 92280269005, 92280269006, 92280269007, 92280269009, 92280269010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	0.0019	12/20/15 13:13	
1,2-Dichloroethane-d4 (S)	%	105	50-150		12/20/15 13:13	
Toluene-d8 (S)	%	96	50-150		12/20/15 13:13	

LABORATORY CONTROL SAMPLE: 1634018

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.018	92	71-125	
1,2-Dichloroethane-d4 (S)	%			104	50-150	
Toluene-d8 (S)	%			95	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1634019 1634020

Parameter	Units	92280269005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	mg/L	0.019	.02	.02	0.034	0.032	77	67	50-150	6	30	
1,2-Dichloroethane-d4 (S)	%						103	104	50-150		150	
Toluene-d8 (S)	%						96	97	50-150		150	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

QC Batch: WET/42140 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92280269005, 92280269006, 92280269007, 92280269009, 92280269010

METHOD BLANK: 1636151 Matrix: Water
Associated Lab Samples: 92280269005, 92280269006, 92280269007, 92280269009, 92280269010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.0	12/23/15 13:13	

LABORATORY CONTROL SAMPLE: 1636152

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	46.2	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1636153 1636154

Parameter	Units	92280201004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	42.9	50	50	93.1	88.7	100	92	80-120	5	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1636398 1636399

Parameter	Units	92280201005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	46.6	46.8	93	94	80-120	0	25	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

QC Batch: WET/42152 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92280269005, 92280269006, 92280269007, 92280269009, 92280269010

METHOD BLANK: 1636400 Matrix: Water
Associated Lab Samples: 92280269005, 92280269006, 92280269007, 92280269009, 92280269010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.10	12/23/15 14:30	

LABORATORY CONTROL SAMPLE: 1636401

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.50	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1636402 1636403

Parameter	Units	92280196004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.46	0.46	92	92	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1636404 1636405

Parameter	Units	92280204001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.48	0.48	95	95	90-110	0	10	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

QC Batch: WETA/25841 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92280269005, 92280269006, 92280269007, 92280269009, 92280269010

METHOD BLANK: 1632069 Matrix: Water
Associated Lab Samples: 92280269005, 92280269006, 92280269007, 92280269009, 92280269010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	0.010	12/17/15 16:46	

LABORATORY CONTROL SAMPLE: 1632070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1632071 1632072

Parameter	Units	92280291001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	1.7	2.5	2.5	4.0	4.0	93	93	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1632073 1632074

Parameter	Units	92280291002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	1.5	2.5	2.5	4.5	4.5	120	120	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

QC Batch: WETA/25876 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 92280269005, 92280269006

METHOD BLANK: 1635070 Matrix: Water
Associated Lab Samples: 92280269005, 92280269006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	12/23/15 10:14	

LABORATORY CONTROL SAMPLE: 1635071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	23.7	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635072 1635073

Parameter	Units	92279992006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.6	25	25	25.3	24.1	95	90	90-110	5	5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635074 1635075

Parameter	Units	92280204001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	25	25	25.6	25.6	101	101	90-110	0	5	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

QC Batch: WETA/25921 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 92280269007, 92280269009, 92280269010

METHOD BLANK: 1637241 Matrix: Water
Associated Lab Samples: 92280269007, 92280269009, 92280269010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	12/24/15 11:44	

LABORATORY CONTROL SAMPLE: 1637242

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.8	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1636143 1636144

Parameter	Units	92280269007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.8	25	25	28.0	28.0	105	105	90-110	0	5	

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QUALIFIERS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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.

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TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-G	Pace Analytical Services - Greenwood
PASI-M	Pace Analytical Services - Minneapolis
PASI-W	Pace Analytical Services - Greenwood

ANALYTE QUALIFIERS

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92280269005	**DMW-7/DRW-1**	RSK 175	AIR/24887		
92280269006	**DMW-9/DRW-3**	RSK 175	AIR/24887		
92280269007	**OBG-W7**	RSK 175	AIR/24887		
92280269009	**MW-24**	RSK 175	AIR/24887		
92280269010	**DMW-6**	RSK 175	AIR/24887		
92280269005	**DMW-7/DRW-1**	EPA 300.0	GWD/2758		
92280269006	**DMW-9/DRW-3**	EPA 300.0	GWD/2758		
92280269007	**OBG-W7**	EPA 300.0	GWD/2758		
92280269009	**MW-24**	EPA 300.0	GWD/2758		
92280269010	**DMW-6**	EPA 300.0	GWD/2758		
92280269001	**RINSATE BLANK-1**	EPA 8260	MSV/34941		
92280269002	**RINSATE BLANK-2**	EPA 8260	MSV/34941		
92280269003	**RINSATE BLANK-3**	EPA 8260	MSV/34941		
92280269004	**DUP-4**	EPA 8260	MSV/34936		
92280269005	**DMW-7/DRW-1**	EPA 8260	MSV/34936		
92280269006	**DMW-9/DRW-3**	EPA 8260	MSV/34965		
92280269007	**OBG-W7**	EPA 8260	MSV/34936		
92280269008	**AMW-12**	EPA 8260	MSV/34965		
92280269009	**MW-24**	EPA 8260	MSV/34944		
92280269010	**DMW-6**	EPA 8260	MSV/34926		
92280269011	**TRIP BLANK**	EPA 8260	MSV/34921		
92280269005	**DMW-7/DRW-1**	EPA 8260B Mod.	MSV/34816		
92280269006	**DMW-9/DRW-3**	EPA 8260B Mod.	MSV/34816		
92280269007	**OBG-W7**	EPA 8260B Mod.	MSV/34816		
92280269009	**MW-24**	EPA 8260B Mod.	MSV/34816		
92280269010	**DMW-6**	EPA 8260B Mod.	MSV/34816		
92280269005	**DMW-7/DRW-1**	SM 2320B	WET/42140		
92280269006	**DMW-9/DRW-3**	SM 2320B	WET/42140		
92280269007	**OBG-W7**	SM 2320B	WET/42140		
92280269009	**MW-24**	SM 2320B	WET/42140		
92280269010	**DMW-6**	SM 2320B	WET/42140		
92280269005	**DMW-7/DRW-1**	SM 4500-S2D	WET/42152		
92280269006	**DMW-9/DRW-3**	SM 4500-S2D	WET/42152		
92280269007	**OBG-W7**	SM 4500-S2D	WET/42152		
92280269009	**MW-24**	SM 4500-S2D	WET/42152		
92280269010	**DMW-6**	SM 4500-S2D	WET/42152		
92280269005	**DMW-7/DRW-1**	EPA 353.2	WETA/25841		
92280269006	**DMW-9/DRW-3**	EPA 353.2	WETA/25841		
92280269007	**OBG-W7**	EPA 353.2	WETA/25841		
92280269009	**MW-24**	EPA 353.2	WETA/25841		
92280269010	**DMW-6**	EPA 353.2	WETA/25841		
92280269005	**DMW-7/DRW-1**	SM 5310B	WETA/25876		

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280269

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92280269006	**DMW-9/DRW-3**	SM 5310B	WETA/25876		
92280269007	**OBG-W7**	SM 5310B	WETA/25921		
92280269009	**MW-24**	SM 5310B	WETA/25921		
92280269010	**DMW-6**	SM 5310B	WETA/25921		

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Pace Analytical www.pacelabs.com	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 06, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.15	Issuing Authorities: Pace Asheville Quality Office

Client Name: Eathcon

* Page 2 of 2 is for Internal Use Only

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☑ yes ☐ no

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

Thermometer Used: IR Gun#5 - 155271998 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0 C

Corrected Cooler Temp.: 2.7 C Biological Tissue is Frozen: Yes No (N/A)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 12/17/15

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☐Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. NPAnate
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: wt		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: Kristen Rivera Date/Time: 12/18/15 10:36

Comments/ Resolution: Analyze sample DMW-6 for all parameters on COC.

SCURF Review: NMG Date: ~~12-16-15~~ 12-17-15 NMG 12-17-15

SRF Review: NMG Date: 12-17-15

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# : 92280269

92280269

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of

1997619

Section A Required Client Information:

Company: Earthcon Consultants Inc
Address: 1880 W Oak Pkwy Marietta, GA 30062
Email To: krivera@earthcon.com
Phone: 770-973-2100 Fax: 770-993-7375
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Kristen Rivera
Copy To:
Purchase Order No.:
Project Name: AMC Dalton
Project Number: 02.20140392.06

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOCs	1,4 Dioxane	Chloride/Sulfate	Sulfide	Nitrates/Alkalinity	Methane/Ethane/Ethene	TOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Rinsate Blank-1	WT	G			12/15/15	1700		3				3					3								92280269 001
2	Rinsate Blank-2	WT	G			12/15/15	1630		3				3					3								002
3	Rinsate Blank-3	WT	G			12/16/15	15:45		3				3					3								003
4	DUP-4	WT	G			12/16/15	—		6 3				6 3					6 3								004
5	DMW-7 / DRW-1	WT	G			12/16/15	0830		15	5			6	1			3	3	3	1	1	1	3	3		005
6	DMW-9 / DRW-3	WT	G			12/16/15	0900		15	5			6	1			3	3	3	1	1	1	3	3		006
7	OBG-W7	WT	G			12/16/15	0845		15	5			6	1			3	3	3	1	1	1	3	3		007
8	AMW-12	WT	G			12/16/15	1230		6				6					3								008
9	MW-24	WT	G			12/16/15	11:30		15	5			6	1			3	3	3	1	1	1	3	3		009
10	DMW-6	WT	G			12/16/15	15:15		15	5																010
11	Trip Blank	WT				12/16/15	—		2				2					2								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)
Nitrates	Keaton Henry / EarthCon	12/16/15	17:40	D. [illegible]	12-16-15	17:40				
				Mick Stevens AAI	12/17/15	0820	0.7	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keaton Henry, Nicole Samantha Wooif

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/16/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

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

December 23, 2015

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279612

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on December 12, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

Revised to change units.

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

Sincerely,

Nicole Gasiorowski

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279612

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

Greenwood Certification IDs
816 Durst Avenue East, Greenwood, SC 29649
South Carolina Laboratory ID #: 24562
North Carolina Divison of Water Resources Certification number 25
Florida Certification number E87633
Virginia VELAP ID: 460250
Asbestos NVLAP accreditation: 101410-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279612

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92279612001	**DMW-11**	Water	12/11/15 09:05	12/12/15 08:30

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SAMPLE ANALYTE COUNT

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279612

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92279612001	**DMW-11**	RSK 175	DR1	3	PASI-M
		EPA 300.0	CDC	2	PASI-G
		EPA 300.0	CDC	2	PASI-W
		EPA 8260	NB	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 4500-S2D	MJP	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	MDW	1	PASI-A

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279612

Sample: DMW-11 **Lab ID: 92279612001** Collected: 12/11/15 09:05 Received: 12/12/15 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	mg/L	0.010	0.0050	1		12/16/15 22:48	74-84-0	
Ethene	ND	mg/L	0.010	0.00047	1		12/16/15 22:48	74-85-1	
Methane	**0.0013J**	mg/L	0.010	0.00063	1		12/16/15 22:48	74-82-8	
3000 IC Anions 28 Days, GWD	Analytical Method: EPA 300.0								
Chloride	**5.4**	mg/L	1.0	0.10	1		12/22/15 10:39	16887-00-6	
Sulfate	**11.5**	mg/L	1.0	0.40	1		12/22/15 10:39	14808-79-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/19/15 03:18	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/19/15 03:18	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/19/15 03:18	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		12/19/15 03:18	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/19/15 03:18	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		12/19/15 03:18	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/19/15 03:18	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/19/15 03:18	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/19/15 03:18	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	110	%	70-130		1		12/19/15 03:18	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		12/19/15 03:18	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/19/15 03:18	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/16/15 23:15	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%	50-150		1		12/16/15 23:15	17060-07-0	
Toluene-d8 (S)	89	%	50-150		1		12/16/15 23:15	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**71.2**	mg/L	5.0	1.0	1		12/15/15 19:42		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		12/15/15 11:30	18496-25-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.62**	mg/L	0.020	0.010	1		12/12/15 14:56		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**1.1**	mg/L	1.0	0.50	1		12/17/15 23:34	7440-44-0	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279612

QC Batch: AIR/24867
QC Batch Method: RSK 175
Analysis Method: RSK 175
Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92279612001

METHOD BLANK: 2159914 Matrix: Water
Associated Lab Samples: 92279612001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethane	mg/L	ND	0.010	0.0050	12/16/15 20:21	
Ethene	mg/L	ND	0.010	0.00047	12/16/15 20:21	
Methane	mg/L	0.0017J	0.010	0.00063	12/16/15 20:21	

LABORATORY CONTROL SAMPLE & LCSD: 2159915 2159916

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	mg/L	.11	0.11	0.11	94	96	85-115	2	20	
Ethene	mg/L	.11	0.10	0.10	94	96	85-115	2	20	
Methane	mg/L	.061	0.057	0.058	94	96	85-115	2	20	

SAMPLE DUPLICATE: 2160061

Parameter	Units	92279414001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	mg/L	ND	ND		20	
Ethene	mg/L	1.5J ug/L	0.00068J		20	
Methane	mg/L	2.1J ug/L	0.0016J		20	

SAMPLE DUPLICATE: 2160063

Parameter	Units	92279419003 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	mg/L	ND	ND		20	
Ethene	mg/L	ND	ND		20	
Methane	mg/L	1.2J ug/L	0.0017J		20	

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.

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279612

QC Batch: GWD/2758
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 3000 IC Anions, GWD
Associated Lab Samples: 92279612001

METHOD BLANK: 1635104 Matrix: Water
Associated Lab Samples: 92279612001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.10	12/22/15 09:53	
Sulfate	mg/L	ND	1.0	0.40	12/22/15 09:53	

LABORATORY CONTROL SAMPLE: 1635105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.0	106	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635106 1635107

Parameter	Units	92279612001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.4	50	50	53.9	54.8	97	99	90-110	2	20	
Sulfate	mg/L	11.5	50	50	59.4	60.2	96	97	90-110	1	20	

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.

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279612

QC Batch: MSV/34774 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92279612001

METHOD BLANK: 1632704 Matrix: Water
Associated Lab Samples: 92279612001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/18/15 23:36	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/18/15 23:36	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/18/15 23:36	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/18/15 23:36	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/18/15 23:36	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/18/15 23:36	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/18/15 23:36	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/18/15 23:36	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/18/15 23:36	
1,2-Dichloroethane-d4 (S)	%	104	70-130		12/18/15 23:36	
4-Bromofluorobenzene (S)	%	103	70-130		12/18/15 23:36	
Toluene-d8 (S)	%	102	70-130		12/18/15 23:36	

LABORATORY CONTROL SAMPLE: 1632705

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.057	115	70-130	
1,1-Dichloroethane	mg/L	.05	0.052	105	70-130	
1,1-Dichloroethene	mg/L	.05	0.055	111	70-132	
1,2-Dichloroethane	mg/L	.05	0.053	106	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.053	106	70-131	
Tetrachloroethene	mg/L	.05	0.050	100	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.054	108	70-130	
Trichloroethene	mg/L	.05	0.053	106	70-130	
Vinyl chloride	mg/L	.05	0.058	116	50-150	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			109	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1632706

Parameter	Units	92279650001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.026	129	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.021	106	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.024	119	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.023	117	70-130	
cis-1,2-Dichloroethene	mg/L	ND	.02	0.022	111	70-130	
Tetrachloroethene	mg/L	0.0013	.02	0.023	109	70-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279612

MATRIX SPIKE SAMPLE: 1632706

Parameter	Units	92279650001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.022	110	70-130	
Trichloroethene	mg/L	ND	.02	0.024	117	69-151	
Vinyl chloride	mg/L	ND	.02	0.023	115	70-130	
1,2-Dichloroethane-d4 (S)	%				108	70-130	
4-Bromofluorobenzene (S)	%				113	70-130	
Toluene-d8 (S)	%				100	70-130	

MATRIX SPIKE SAMPLE: 1632708

Parameter	Units	92279649001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.025	126	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.021	106	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.023	115	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.023	113	70-130	
cis-1,2-Dichloroethene	mg/L	0.0030	.02	0.024	104	70-130	
Tetrachloroethene	mg/L	0.072	.02	0.094	109	70-130	
trans-1,2-Dichloroethene	mg/L	ND	.02	0.022	108	70-130	
Trichloroethene	mg/L	0.00062J	.02	0.023	114	69-151	
Vinyl chloride	mg/L	ND	.02	0.023	115	70-130	
1,2-Dichloroethane-d4 (S)	%				108	70-130	
4-Bromofluorobenzene (S)	%				111	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1632707

Parameter	Units	92279612001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	111	110	1		
4-Bromofluorobenzene (S)	%	110	107	3		
Toluene-d8 (S)	%	99	100	1		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279612

SAMPLE DUPLICATE: 1632709

Parameter	Units	92279898001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	4.2 ug/L	0.0042	0	30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	108	110	1		
4-Bromofluorobenzene (S)	%	113	109	4		
Toluene-d8 (S)	%	100	100	0		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279612

QC Batch: MSV/34741
QC Batch Method: EPA 8260B Mod.
Analysis Method: EPA 8260B Mod.
Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92279612001

METHOD BLANK: 1630721 Matrix: Water
Associated Lab Samples: 92279612001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	0.0019	12/16/15 16:28	
1,2-Dichloroethane-d4 (S)	%	100	50-150		12/16/15 16:28	
Toluene-d8 (S)	%	90	50-150		12/16/15 16:28	

LABORATORY CONTROL SAMPLE: 1630722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.018	88	71-125	
1,2-Dichloroethane-d4 (S)	%			98	50-150	
Toluene-d8 (S)	%			94	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1630723 1630724

Parameter	Units	92279275003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	mg/L	ND	.02	.02	0.017	0.018	86	91	50-150	6	30	
1,2-Dichloroethane-d4 (S)	%						103	101	50-150		150	
Toluene-d8 (S)	%						89	89	50-150		150	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279612

QC Batch: WET/41980 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92279612001

METHOD BLANK: 1628867 Matrix: Water
Associated Lab Samples: 92279612001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.0	12/15/15 15:34	

LABORATORY CONTROL SAMPLE: 1628868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.1	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1628869 1628870

Parameter	Units	92279294003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	82.4	50	50	135	130	105	95	80-120	4	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1628871 1628872

Parameter	Units	92279629002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	77.9	50	50	126	126	96	96	80-120	0	25	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279612

QC Batch: WET/41975
QC Batch Method: SM 4500-S2D
Analysis Method: SM 4500-S2D
Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92279612001

METHOD BLANK: 1628834
Matrix: Water
Associated Lab Samples: 92279612001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.10	12/15/15 11:30	

LABORATORY CONTROL SAMPLE: 1628835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.48	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1628836 1628837

Parameter	Units	92279612001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.49	0.49	97	97	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1628838 1628839

Parameter	Units	92279629002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.46	0.46	93	93	90-110	0	10	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279612

QC Batch: WETA/25766
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92279612001

METHOD BLANK: 1627811
Matrix: Water
Associated Lab Samples: 92279612001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	0.010	12/12/15 11:13	

LABORATORY CONTROL SAMPLE: 1627812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.5	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1627813 1627814

Parameter	Units	92279562001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	2.5	2.5	2.4	2.4	95	95	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1627815 1627816

Parameter	Units	92279470004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.023	2.5	2.5	2.5	2.5	99	99	90-110	0	10	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279612

QC Batch: WETA/25819 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 92279612001

METHOD BLANK: 1631086 Matrix: Water
Associated Lab Samples: 92279612001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	12/17/15 21:49	

LABORATORY CONTROL SAMPLE: 1631087

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1631088 1631089

Parameter	Units	92279931013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	0.71J	25	25	25.8	26.1	100	101	90-110	1	5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1631090 1631091

Parameter	Units	92280039003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	25	25	24.4	24.5	97	97	90-110	0	5	

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QUALIFIERS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279612

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-G	Pace Analytical Services - Greenwood
PASI-M	Pace Analytical Services - Minneapolis
PASI-W	Pace Analytical Services - Greenwood

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279612

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92279612001	**DMW-11**	RSK 175	AIR/24867		
92279612001	**DMW-11**	EPA 300.0	GWD/2758		
92279612001	**DMW-11**	EPA 8260	MSV/34774		
92279612001	**DMW-11**	EPA 8260B Mod.	MSV/34741		
92279612001	**DMW-11**	SM 2320B	WET/41980		
92279612001	**DMW-11**	SM 4500-S2D	WET/41975		
92279612001	**DMW-11**	EPA 353.2	WETA/25766		
92279612001	**DMW-11**	SM 5310B	WETA/25819		

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Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 17, 2015 Page 1 of 2*
	Document Number: F-CHR-CS-003-rev.16.1	Issuing Authority: Pace Huntersville Quality Office

Client Name: Earthcon

* Page 2 of 2 is for Internal Use Only

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

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

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

Thermometer Used: IR Gun T1505 **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor No Correction

Corrected Cooler Temp.: 4.8 °C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Comments:

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: 12.12.15 AM 12/14/15 KW

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☐No ☑N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: JY Date: 12/14/15

SRF Review: NMG Date: 12-14-15

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# : 92279612

92279612

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of 1995927

Section A Required Client Information:

Company: Earthcon
Address: 1880 W Oak Pkwy Marietta, GA 30062
Email To: krivera@earthcon
Phone: 770-913-2100 Fax: 770-913-7325
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Kristen Rivera
Copy To:
Purchase Order No.:
Project Name: AMC Dalton
Project Number: 02.2014.0392.00

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VOCs	Hg, Bromide, Chloride, Sulfate	Nitrates, Alkalinity	Methane/Ethene	TOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DMW-11	WT	G			12/11/15	9:05		15	5		1	6				3	Y	Y	Y	Y	Y	Y	Y	92279612 001
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Kristen Rivera / Earthcon	12-11-15	5:00	D. Hart	12-11-15	5:00				
	D. Hart	12-14-15	5:10	Kimberly Forbes	12/15	830	4C	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kristen Henry
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/11/15

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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

December 28, 2015

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280264

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on December 17, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Nicole Gasiorowski

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

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

CERTIFICATIONS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280264

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280264

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92280264001	**MW-23**	Water	12/15/15 16:45	12/17/15 10:20

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

SAMPLE ANALYTE COUNT

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280264

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92280264001	**MW-23**	EPA 8260	NB	12
		EPA 8260B Mod.	DLK	3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280264

Sample: MW-23 **Lab ID: 92280264001** Collected: 12/15/15 16:45 Received: 12/17/15 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	**0.0066**	mg/L	0.0010	0.00032	1		12/25/15 04:05	75-34-3	
1,2-Dichloroethane	**0.00084J**	mg/L	0.0010	0.00024	1		12/25/15 04:05	107-06-2	
1,1-Dichloroethene	**0.056**	mg/L	0.0010	0.00056	1		12/25/15 04:05	75-35-4	
cis-1,2-Dichloroethene	**0.41**	mg/L	0.010	0.0019	10		12/26/15 20:00	156-59-2	
trans-1,2-Dichloroethene	**0.015**	mg/L	0.0010	0.00049	1		12/25/15 04:05	156-60-5	
Tetrachloroethene	**1.1**	mg/L	0.010	0.0046	10		12/26/15 20:00	127-18-4	
1,1,1-Trichloroethane	**0.050**	mg/L	0.0010	0.00048	1		12/25/15 04:05	71-55-6	
Trichloroethene	**0.65**	mg/L	0.010	0.0047	10		12/26/15 20:00	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/25/15 04:05	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	109	%	70-130		1		12/25/15 04:05	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		12/25/15 04:05	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		12/25/15 04:05	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.11**	mg/L	0.0050	0.0048	2.5		12/21/15 10:02	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%	50-150		1		12/20/15 17:57	17060-07-0	
Toluene-d8 (S)	96	%	50-150		1		12/20/15 17:57	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280264

QC Batch: MSV/34926
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92280264001

METHOD BLANK: 1637482 Matrix: Water
Associated Lab Samples: 92280264001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/25/15 02:57	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/25/15 02:57	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/25/15 02:57	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/25/15 02:57	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/25/15 02:57	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/25/15 02:57	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/25/15 02:57	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/25/15 02:57	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/25/15 02:57	
1,2-Dichloroethane-d4 (S)	%	107	70-130		12/25/15 02:57	
4-Bromofluorobenzene (S)	%	111	70-130		12/25/15 02:57	
Toluene-d8 (S)	%	101	70-130		12/25/15 02:57	

LABORATORY CONTROL SAMPLE: 1637483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.062	125	70-130	
1,1-Dichloroethane	mg/L	.05	0.055	110	70-130	
1,1-Dichloroethene	mg/L	.05	0.057	114	70-132	
1,2-Dichloroethane	mg/L	.05	0.052	104	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.054	108	70-131	
Tetrachloroethene	mg/L	.05	0.056	112	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.054	108	70-130	
Trichloroethene	mg/L	.05	0.058	117	70-130	
Vinyl chloride	mg/L	.05	0.055	110	50-150	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			111	70-130	
Toluene-d8 (S)	%			100	70-130	

SAMPLE DUPLICATE: 1637485

Parameter	Units	92280267002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	0.0055	0.0050	9	30	
Tetrachloroethene	mg/L	0.035	0.034	2	30	

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.

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280264

SAMPLE DUPLICATE: 1637485

Parameter	Units	92280267002 Result	Dup Result	RPD	Max RPD	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	0.0030	0.0028	10	30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	110	108	2		
4-Bromofluorobenzene (S)	%	107	110	3		
Toluene-d8 (S)	%	100	99	1		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280264

QC Batch: MSV/34816
QC Batch Method: EPA 8260B Mod.
Analysis Method: EPA 8260B Mod.
Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92280264001

METHOD BLANK: 1634017 Matrix: Water
Associated Lab Samples: 92280264001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	0.0019	12/20/15 13:13	
1,2-Dichloroethane-d4 (S)	%	105	50-150		12/20/15 13:13	
Toluene-d8 (S)	%	96	50-150		12/20/15 13:13	

LABORATORY CONTROL SAMPLE: 1634018

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.018	92	71-125	
1,2-Dichloroethane-d4 (S)	%			104	50-150	
Toluene-d8 (S)	%			95	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1634019 1634020

Parameter	Units	92280269005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	mg/L	0.019	.02	.02	0.034	0.032	77	67	50-150	6	30	
1,2-Dichloroethane-d4 (S)	%						103	104	50-150		150	
Toluene-d8 (S)	%						96	97	50-150		150	

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.

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QUALIFIERS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280264

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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.

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(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280264

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92280264001	**MW-23**	EPA 8260	MSV/34926		
92280264001	**MW-23**	EPA 8260B Mod.	MSV/34816		

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Pace Analytical www.pacelabs.com	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 06, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.15	Issuing Authorities: Pace Asheville Quality Office

Client Name: Earthcon

* Page 2 of 2 is for Internal Use Only

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☑ yes ☐ no

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

Thermometer Used: IR Gun#5 - 155271998 Type of Ice: Wet Blue None ☑ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0.6 C

Corrected Cooler Temp.: 2.7 C Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: 12/17 MS

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	15.
Trip Blank Present:	☐Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

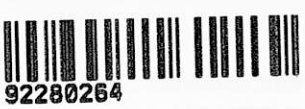
Comments/ Resolution: _____

SCURF Review: NMG Date: 12-17-15

SRF Review: NMG Date: 12-17-15

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#: 92280264



Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of 1997618

Section A Required Client Information:

Company: EarthCon Consultants, Inc.
Address: 1880 West Oak Pkwy
Marietta, GA 30062
Email To: KRIVERA@EARTHCON.COM
Phone: 7709732100 Fax: 770 973 7375
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Kristen Rivera
Copy To:
Purchase Order No.:
Project Name: AMC Dalton
Project Number: 02.20140392.00

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

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

Requested Analysis Filtered (Y/N)

ITEM #	Sample ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VOCs	1,4-Dioxane	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-23	WT	G			12/15/15	1645		6				6					33	33		001
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
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)
	Keaton Henry / Earthcon	12/16/15	17:40	D. Arb	12-16-15	17:40				
				Mike Stewart AVL	12/17/15	1020	2.7	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: C Nolte
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/16/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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

December 22, 2015

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279650

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on December 12, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Nicole Gasiorowski

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279650

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279650

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92279650001	**MW-23**	Water	12/11/15 15:05	12/12/15 08:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279650

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92279650001	**MW-23**	EPA 8260	NB	12

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279650

Sample: MW-23 **Lab ID: 92279650001** Collected: 12/11/15 15:05 Received: 12/12/15 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/19/15 03:01	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/19/15 03:01	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/19/15 03:01	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		12/19/15 03:01	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/19/15 03:01	156-60-5	
Tetrachloroethene	**0.0013**	mg/L	0.0010	0.00046	1		12/19/15 03:01	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/19/15 03:01	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/19/15 03:01	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/19/15 03:01	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	110	%	70-130		1		12/19/15 03:01	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		12/19/15 03:01	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		12/19/15 03:01	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279650

QC Batch: MSV/34774 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92279650001

METHOD BLANK: 1632704 Matrix: Water
Associated Lab Samples: 92279650001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/18/15 23:36	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/18/15 23:36	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/18/15 23:36	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/18/15 23:36	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/18/15 23:36	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/18/15 23:36	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/18/15 23:36	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/18/15 23:36	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/18/15 23:36	
1,2-Dichloroethane-d4 (S)	%	104	70-130		12/18/15 23:36	
4-Bromofluorobenzene (S)	%	103	70-130		12/18/15 23:36	
Toluene-d8 (S)	%	102	70-130		12/18/15 23:36	

LABORATORY CONTROL SAMPLE: 1632705

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.057	115	70-130	
1,1-Dichloroethane	mg/L	.05	0.052	105	70-130	
1,1-Dichloroethene	mg/L	.05	0.055	111	70-132	
1,2-Dichloroethane	mg/L	.05	0.053	106	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.053	106	70-131	
Tetrachloroethene	mg/L	.05	0.050	100	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.054	108	70-130	
Trichloroethene	mg/L	.05	0.053	106	70-130	
Vinyl chloride	mg/L	.05	0.058	116	50-150	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			109	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1632706

Parameter	Units	92279650001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.026	129	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.021	106	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.024	119	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.023	117	70-130	
cis-1,2-Dichloroethene	mg/L	ND	.02	0.022	111	70-130	
Tetrachloroethene	mg/L	0.0013	.02	0.023	109	70-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279650

MATRIX SPIKE SAMPLE: 1632706

Parameter	Units	92279650001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.022	110	70-130	
Trichloroethene	mg/L	ND	.02	0.024	117	69-151	
Vinyl chloride	mg/L	ND	.02	0.023	115	70-130	
1,2-Dichloroethane-d4 (S)	%				108	70-130	
4-Bromofluorobenzene (S)	%				113	70-130	
Toluene-d8 (S)	%				100	70-130	

MATRIX SPIKE SAMPLE: 1632708

Parameter	Units	92279649001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.025	126	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.021	106	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.023	115	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.023	113	70-130	
cis-1,2-Dichloroethene	mg/L	0.0030	.02	0.024	104	70-130	
Tetrachloroethene	mg/L	0.072	.02	0.094	109	70-130	
trans-1,2-Dichloroethene	mg/L	ND	.02	0.022	108	70-130	
Trichloroethene	mg/L	0.00062J	.02	0.023	114	69-151	
Vinyl chloride	mg/L	ND	.02	0.023	115	70-130	
1,2-Dichloroethane-d4 (S)	%				108	70-130	
4-Bromofluorobenzene (S)	%				111	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1632707

Parameter	Units	92279612001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	111	110	1		
4-Bromofluorobenzene (S)	%	110	107	3		
Toluene-d8 (S)	%	99	100	1		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279650

SAMPLE DUPLICATE: 1632709

Parameter	Units	92279898001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	4.2 ug/L	0.0042	0	30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	108	110	1		
4-Bromofluorobenzene (S)	%	113	109	4		
Toluene-d8 (S)	%	100	100	0		

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QUALIFIERS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279650

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279650

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92279650001	**MW-23**	EPA 8260	MSV/34774		

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Pace Analytical®	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 17, 2015 Page 1 of 2*
	Document Number: F-CHR-CS-003-rev.16.1	Issuing Authority: Pace Huntersville Quality Office

Client Name: Earth

* Page 2 of 2 is for Internal Use Only

Courier: ☐ Fed Ex ☐ UPS ☐ USP ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

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

Thermometer Used: IR Gun T1505 **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Temp Correction Factor No Correction

Corrected Cooler Temp.: 1.0 °C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: MM 12/14

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: JD Date: 12/14/15

SRF Review: NMH Date: 12/14/15

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#: 92279650

92279650

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of 1995928

Section A Required Client Information:

Company: Earth Con
Address: 1850 West Oak PKWY
Bldg 100, Ste 106
Email To: krivera@earthcon.com
Phone: 7704732100 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Kristen Rivera
Copy To:
Purchase Order No.:
Project Name: AMC Dalton
Project Number: 02.2014032.00

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: VOC 8260B	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-23	GW	G			12/1/15	1505						K						3		92279650 001
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Earth Con	12-11-15	5:00		12-11-15	500				
		12-11-15	5:10		12/15	830	Ice	Y	N	NA

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: J McKinney
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/11/15

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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

December 24, 2015

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC Dalton
Pace Project No.: 92279652

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on December 12, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

Revised to change units.

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

Sincerely,

Nicole Gasiorowski

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: AMC Dalton
Pace Project No.: 92279652

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

Greenwood Certification IDs
816 Durst Avenue East, Greenwood, SC 29649
South Carolina Laboratory ID #: 24562
North Carolina Divison of Water Resources Certification number 25
Florida Certification number E87633
Virginia VELAP ID: 460250
Asbestos NVLAP accreditation: 101410-0

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SAMPLE SUMMARY

Project: AMC Dalton
Pace Project No.: 92279652

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92279652001	**OBG-W1**	Water	12/11/15 09:50	12/12/15 08:30

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SAMPLE ANALYTE COUNT

Project: AMC Dalton
Pace Project No.: 92279652

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92279652001	**OBG-W1**	RSK 175	DR1	3	PASI-M
		EPA 300.0	CDC	2	PASI-G
		EPA 300.0	CDC	2	PASI-W
		EPA 8260	NB	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 4500-S2D	MJP	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	MDW	1	PASI-A

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ANALYTICAL RESULTS

Project: AMC Dalton
Pace Project No.: 92279652

Sample: OBG-W1 **Lab ID: 92279652001** Collected: 12/11/15 09:50 Received: 12/12/15 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	mg/L	0.010	0.0050	1		12/16/15 22:39	74-84-0	
Ethene	ND	mg/L	0.010	0.00047	1		12/16/15 22:39	74-85-1	
Methane	**0.0013J**	mg/L	0.010	0.00063	1		12/16/15 22:39	74-82-8	
3000 IC Anions 28 Days, GWD	Analytical Method: EPA 300.0								
Chloride	**5.1**	mg/L	1.0	0.10	1		12/22/15 11:50	16887-00-6	
Sulfate	**2.0**	mg/L	1.0	0.40	1		12/22/15 11:50	14808-79-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	**0.0029**	mg/L	0.0025	0.00080	2.5		12/20/15 17:51	75-34-3	
1,2-Dichloroethane	**0.00088J**	mg/L	0.0025	0.00060	2.5		12/20/15 17:51	107-06-2	
1,1-Dichloroethene	**0.20**	mg/L	0.0025	0.0014	2.5		12/20/15 17:51	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0025	0.00048	2.5		12/20/15 17:51	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0025	0.0012	2.5		12/20/15 17:51	156-60-5	
Tetrachloroethene	ND	mg/L	0.0025	0.0012	2.5		12/20/15 17:51	127-18-4	
1,1,1-Trichloroethane	**0.53**	mg/L	0.0050	0.0024	5		12/21/15 23:49	71-55-6	
Trichloroethene	ND	mg/L	0.0025	0.0012	2.5		12/20/15 17:51	79-01-6	
Vinyl chloride	ND	mg/L	0.0025	0.0016	2.5		12/20/15 17:51	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		2.5		12/20/15 17:51	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		2.5		12/20/15 17:51	17060-07-0	
Toluene-d8 (S)	98	%	70-130		2.5		12/20/15 17:51	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/19/15 15:54	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	107	%	50-150		1		12/19/15 15:54	17060-07-0	
Toluene-d8 (S)	97	%	50-150		1		12/19/15 15:54	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**34.2**	mg/L	5.0	1.0	1		12/17/15 13:21		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		12/15/15 11:30	18496-25-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.6**	mg/L	0.020	0.010	1		12/15/15 15:20		H3
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		12/17/15 23:44	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: AMC Dalton
Pace Project No.: 92279652

QC Batch: AIR/24867
QC Batch Method: RSK 175
Analysis Method: RSK 175
Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92279652001

METHOD BLANK: 2159914 Matrix: Water
Associated Lab Samples: 92279652001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethane	mg/L	ND	0.010	0.0050	12/16/15 20:21	
Ethene	mg/L	ND	0.010	0.00047	12/16/15 20:21	
Methane	mg/L	0.0017J	0.010	0.00063	12/16/15 20:21	

LABORATORY CONTROL SAMPLE & LCSD: 2159915 2159916

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	mg/L	.11	0.11	0.11	94	96	85-115	2	20	
Ethene	mg/L	.11	0.10	0.10	94	96	85-115	2	20	
Methane	mg/L	.061	0.057	0.058	94	96	85-115	2	20	

SAMPLE DUPLICATE: 2160061

Parameter	Units	92279414001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	mg/L	ND	ND		20	
Ethene	mg/L	1.5J ug/L	0.00068J		20	
Methane	mg/L	2.1J ug/L	0.0016J		20	

SAMPLE DUPLICATE: 2160063

Parameter	Units	92279419003 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	mg/L	ND	ND		20	
Ethene	mg/L	ND	ND		20	
Methane	mg/L	1.2J ug/L	0.0017J		20	

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QUALITY CONTROL DATA

Project: AMC Dalton
Pace Project No.: 92279652

QC Batch: GWD/2758
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 3000 IC Anions, GWD
Associated Lab Samples: 92279652001

METHOD BLANK: 1635104 Matrix: Water
Associated Lab Samples: 92279652001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.10	12/22/15 09:53	
Sulfate	mg/L	ND	1.0	0.40	12/22/15 09:53	

LABORATORY CONTROL SAMPLE: 1635105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.0	106	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635106 1635107

Parameter	Units	92279612001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.4	50	50	53.9	54.8	97	99	90-110	2	20	
Sulfate	mg/L	11.5	50	50	59.4	60.2	96	97	90-110	1	20	

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QUALITY CONTROL DATA

Project: AMC Dalton
Pace Project No.: 92279652

QC Batch: MSV/34813
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92279652001

METHOD BLANK: 1634008
Matrix: Water
Associated Lab Samples: 92279652001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/20/15 12:44	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/20/15 12:44	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/20/15 12:44	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/20/15 12:44	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/20/15 12:44	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/20/15 12:44	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/20/15 12:44	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/20/15 12:44	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/20/15 12:44	
1,2-Dichloroethane-d4 (S)	%	103	70-130		12/20/15 12:44	
4-Bromofluorobenzene (S)	%	110	70-130		12/20/15 12:44	
Toluene-d8 (S)	%	98	70-130		12/20/15 12:44	

LABORATORY CONTROL SAMPLE: 1634009

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.052	104	70-130	
1,1-Dichloroethane	mg/L	.05	0.042	85	70-130	
1,1-Dichloroethene	mg/L	.05	0.045	91	70-132	
1,2-Dichloroethane	mg/L	.05	0.047	94	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.044	87	70-131	
Tetrachloroethene	mg/L	.05	0.049	98	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.045	89	70-130	
Trichloroethene	mg/L	.05	0.050	101	70-130	
Vinyl chloride	mg/L	.05	0.044	89	50-150	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			114	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton
Pace Project No.: 92279652

QC Batch: MSV/34801
QC Batch Method: EPA 8260B Mod.
Analysis Method: EPA 8260B Mod.
Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92279652001

METHOD BLANK: 1633915 Matrix: Water
Associated Lab Samples: 92279652001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	0.0019	12/19/15 15:34	
1,2-Dichloroethane-d4 (S)	%	104	50-150		12/19/15 15:34	
Toluene-d8 (S)	%	101	50-150		12/19/15 15:34	

LABORATORY CONTROL SAMPLE: 1633916

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.019	94	71-125	
1,2-Dichloroethane-d4 (S)	%			102	50-150	
Toluene-d8 (S)	%			100	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1633917 1633918

Parameter	Units	92279977001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	mg/L	ND	.02	.02	0.019	0.019	94	95	50-150	1	30	
1,2-Dichloroethane-d4 (S)	%						104	103	50-150		150	
Toluene-d8 (S)	%						97	99	50-150		150	

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QUALITY CONTROL DATA

Project: AMC Dalton
Pace Project No.: 92279652

QC Batch: WET/42006
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92279652001

METHOD BLANK: 1629978 Matrix: Water
Associated Lab Samples: 92279652001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.0	12/17/15 13:00	

LABORATORY CONTROL SAMPLE: 1629979

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	47.6	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1629982 1629983

Parameter	Units	92279294022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	9.2	50	50	57.9	57.7	97	97	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1631551 1631552

Parameter	Units	92279294011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	53.7	52.9	98	97	80-120	1	25	

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QUALITY CONTROL DATA

Project: AMC Dalton
Pace Project No.: 92279652

QC Batch: WET/41975
QC Batch Method: SM 4500-S2D
Analysis Method: SM 4500-S2D
Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92279652001

METHOD BLANK: 1628834 Matrix: Water
Associated Lab Samples: 92279652001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.10	12/15/15 11:30	

LABORATORY CONTROL SAMPLE: 1628835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.48	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1628836 1628837

Parameter	Units	92279612001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.49	0.49	97	97	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1628838 1628839

Parameter	Units	92279629002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.46	0.46	93	93	90-110	0	10	

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QUALITY CONTROL DATA

Project: AMC Dalton
Pace Project No.: 92279652

QC Batch: WETA/25798
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92279652001

METHOD BLANK: 1629328 Matrix: Water
Associated Lab Samples: 92279652001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	0.010	12/15/15 15:17	

LABORATORY CONTROL SAMPLE: 1629329

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1629330 1629331

Parameter	Units	92279627001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.11	2.5	2.5	2.4	2.4	91	91	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1629332 1629333

Parameter	Units	92279760001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	1.1	2.5	2.5	5.2	5.2	162	162	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: AMC Dalton
Pace Project No.: 92279652

QC Batch: WETA/25819 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 92279652001

METHOD BLANK: 1631086 Matrix: Water
Associated Lab Samples: 92279652001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	12/17/15 21:49	

LABORATORY CONTROL SAMPLE: 1631087

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1631088 1631089

Parameter	Units	92279931013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	0.71J	25	25	25.8	26.1	100	101	90-110	1	5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1631090 1631091

Parameter	Units	92280039003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	25	25	24.4	24.5	97	97	90-110	0	5	

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QUALIFIERS

Project: AMC Dalton
Pace Project No.: 92279652

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-G	Pace Analytical Services - Greenwood
PASI-M	Pace Analytical Services - Minneapolis
PASI-W	Pace Analytical Services - Greenwood

ANALYTE QUALIFIERS

H3	Sample was received or analysis requested beyond the recognized method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC Dalton
Pace Project No.: 92279652

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92279652001	**OBG-W1**	RSK 175	AIR/24867		
92279652001	**OBG-W1**	EPA 300.0	GWD/2758		
92279652001	**OBG-W1**	EPA 8260	MSV/34813		
92279652001	**OBG-W1**	EPA 8260B Mod.	MSV/34801		
92279652001	**OBG-W1**	SM 2320B	WET/42006		
92279652001	**OBG-W1**	SM 4500-S2D	WET/41975		
92279652001	**OBG-W1**	EPA 353.2	WETA/25798		
92279652001	**OBG-W1**	SM 5310B	WETA/25819		

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Pace Analytical®	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 17, 2015 Page 1 of 2*
	Document Number: F-CHR-CS-003-rev.16.1	Issuing Authority: Pace Huntersville Quality Office

Client Name: Earth

* Page 2 of 2 is for Internal Use Only

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

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

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

Thermometer Used: IR Gun T1505 **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Temp Correction Factor No Correction

Corrected Cooler Temp.: 1.0 °C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: MNB 12/14

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time: 12/14	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: JJ Date: 12/14/15

SRF Review: MNG Date: 12/14/15

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)

Place label here

WO# : 92279652

92279652

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of 1995926

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Earth Con	Report To: Kristen Rivera	Attention:
Address: 1880 West Oak Pkwy Marietta GA 30062	Copy To:	Company Name:
		Address:
Email To: krivera@earthcon.com	Purchase Order No.:	Pace Quote Reference:
Phone: 770-913-2100 Fax: 770-913-7335	Project Name: AMC Dalton	Pace Project Manager:
Requested Due Date/TAT:	Project Number: 02.20140392.00	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

Matrix Codes MATRIX / CODE

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

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: VOC	1,4 Dioxane	Chloride	Sulfate	Nitrate, Alkalinity	Methane/Ethene	TOC				Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	OBG-W1	WT	G			12/11/15	9:50		15	5		1	6				3		3	3	1	1	1	3	3					92279652 001
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
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)
	KT Earth Con	12-11-15	5:00	D. Tully	12-11-15	5:00				
	D. [illegible]	12-11-15	5:10	D Moore/Pace	12/12/15	830	1.6	Y	Y	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: C V Nolin
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/11/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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

December 23, 2015

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279967

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on December 16, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Nicole Gasiorowski

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

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(704)875-9092

CERTIFICATIONS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279967

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279967

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92279967001	**OBG-W1**	Water	12/15/15 16:00	12/16/15 10:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279967

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92279967001	**OBG-W1**	SM 2320B	MLS	1
		EPA 353.2	DMN	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279967

Sample: OBG-W1 **Lab ID: 92279967001** Collected: 12/15/15 16:00 Received: 12/16/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**56.3**	mg/L	5.0	1.0	1		12/22/15 15:37		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.6**	mg/L	0.020	0.010	1		12/16/15 19:24		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279967

QC Batch: WET/42119 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92279967001

METHOD BLANK: 1635091 Matrix: Water
Associated Lab Samples: 92279967001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.0	12/22/15 12:00	

LABORATORY CONTROL SAMPLE: 1635092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	47.9	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635093 1635094

Parameter	Units	92280197001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	13.1	50	50	61.9	61.3	98	96	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635348 1635349

Parameter	Units	92280201003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	16.3	50	50	64.7	65.5	97	98	80-120	1	25	

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

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279967

QC Batch: WETA/25815
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92279967001

METHOD BLANK: 1631016 Matrix: Water
Associated Lab Samples: 92279967001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	0.010	12/16/15 18:51	

LABORATORY CONTROL SAMPLE: 1631017

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1631018 1631019

Parameter	Units	92279986001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	8.0	2.5	2.5	9.1	9.1	42	42	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1631020 1631021

Parameter	Units	92279986002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.85	2.5	2.5	3.1	3.1	91	92	90-110	0	10	

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

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(704)875-9092

QUALIFIERS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279967

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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.

ANALYTE QUALIFIERS

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279967

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92279967001	**OBG-W1**	SM 2320B	WET/42119		
92279967001	**OBG-W1**	EPA 353.2	WETA/25815		

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Pace Analytical www.pacelabs.com	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 06, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.15	Issuing Authorities: Pace Asheville Quality Office

Client Name: Earthcon

* Page 2 of 2 is for Internal Use Only

Courier (Circle): (Fed Ex) UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

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

Thermometer Used: (IR Gun#5 - 155271998) IR Gun#4 SN:140290365 Other:_____ Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract 0.0 C

Corrected Cooler Temp.: 3.7 C Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: KDB 12/16/15

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6. Nitrates
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☑No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12. Limited volume only, BP4W
-Includes date/time/ID/Analysis Matrix: WW		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

SCURF Review: NMG Date: 12-16-15

SRF Review: NMG Date: 12-17-15

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# : 92279967

92279967

Pace Analytical
www.pacelabs.com

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

1997616

Section A Required Client Information:

Company: Earth Con
Address: 1880 W Oak Pkwy
Marietta, GA 30062
Email To: krivera@earthcon.com
Phone: 770-413-2100 Fax: 770-913-7375
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Kristen Rivera
Copy To:
Purchase Order No.:
Project Name: AMC Dalton
Project Number: 02.20140392.00

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N): Nitrate/Alkalinity	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	OBG-W1	WT	G			12/15/15	16:00	↓	1	1									Y		92279967 001
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
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)
	SNWang	12/15/15	1615	B. Petit	12-15	1615				
				Bill Mc	12/16	1013	3.7	Y	~	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kristen Henry
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/15/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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

December 24, 2015

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on December 16, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

Revised to change units.

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

Sincerely,

Nicole Gasiorowski

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

Greenwood Certification IDs
816 Durst Avenue East, Greenwood, SC 29649
South Carolina Laboratory ID #: 24562
North Carolina Divison of Water Resources Certification number 25
Florida Certification number E87633
Virginia VELAP ID: 460250
Asbestos NVLAP accreditation: 101410-0

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92279977001	**OBG-W2**	Water	12/15/15 13:00	12/16/15 10:30

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(704)875-9092

SAMPLE ANALYTE COUNT

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92279977001	**OBG-W2**	RSK 175	DR1	1	PASI-M
		EPA 300.0	CDC	2	PASI-G
		EPA 300.0	CDC	2	PASI-W
		EPA 8260	NB	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 4500-S2D	MSH	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	MDW	1	PASI-A

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

Sample: OBG-W2 **Lab ID: 92279977001** Collected: 12/15/15 13:00 Received: 12/16/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	**0.0033J**	mg/L	0.010	0.00063	1		12/18/15 19:07	74-82-8	
3000 IC Anions 28 Days, GWD	Analytical Method: EPA 300.0								
Chloride	**1.6**	mg/L	1.0	0.10	1		12/22/15 12:13	16887-00-6	
Sulfate	**4.9**	mg/L	1.0	0.40	1		12/22/15 12:13	14808-79-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/22/15 19:53	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/22/15 19:53	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/22/15 19:53	75-35-4	
cis-1,2-Dichloroethene	**0.00064J**	mg/L	0.0010	0.00019	1		12/22/15 19:53	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/22/15 19:53	156-60-5	
Tetrachloroethene	**0.0015**	mg/L	0.0010	0.00046	1		12/22/15 19:53	127-18-4	
1,1,1-Trichloroethane	**0.0020**	mg/L	0.0010	0.00048	1		12/22/15 19:53	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/22/15 19:53	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/22/15 19:53	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		12/22/15 19:53	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		12/22/15 19:53	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/22/15 19:53	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/19/15 18:36	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	105	%	50-150		1		12/19/15 18:36	17060-07-0	
Toluene-d8 (S)	97	%	50-150		1		12/19/15 18:36	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**135**	mg/L	5.0	1.0	1		12/22/15 15:46		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		12/22/15 20:09	18496-25-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.11**	mg/L	0.020	0.010	1		12/16/15 19:21		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		12/23/15 20:02	7440-44-0	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

QC Batch: AIR/24876
QC Batch Method: RSK 175
Analysis Method: RSK 175
Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92279977001

METHOD BLANK: 2161064 Matrix: Water
Associated Lab Samples: 92279977001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Methane	mg/L	0.0017J	0.010	0.00063	12/18/15 16:12	

LABORATORY CONTROL SAMPLE & LCSD: 2161065 2161066

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	mg/L	.061	0.061	0.061	100	100	85-115	0	20	

SAMPLE DUPLICATE: 2162542

Parameter	Units	92280047001 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	mg/L	45.5 ug/L	0.043	7	20	

SAMPLE DUPLICATE: 2162543

Parameter	Units	92280054002 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	mg/L	2.6J ug/L	0.0026J		20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

QC Batch: GWD/2758
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 3000 IC Anions, GWD
Associated Lab Samples: 92279977001

METHOD BLANK: 1635104 Matrix: Water
Associated Lab Samples: 92279977001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.10	12/22/15 09:53	
Sulfate	mg/L	ND	1.0	0.40	12/22/15 09:53	

LABORATORY CONTROL SAMPLE: 1635105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.0	106	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635106 1635107

Parameter	Units	92279612001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.4	50	50	53.9	54.8	97	99	90-110	2	20	
Sulfate	mg/L	11.5	50	50	59.4	60.2	96	97	90-110	1	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

QC Batch: MSV/34886 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92279977001

METHOD BLANK: 1635813 Matrix: Water
Associated Lab Samples: 92279977001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/22/15 12:30	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/22/15 12:30	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/22/15 12:30	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/22/15 12:30	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/22/15 12:30	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/22/15 12:30	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/22/15 12:30	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/22/15 12:30	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/22/15 12:30	
1,2-Dichloroethane-d4 (S)	%	107	70-130		12/22/15 12:30	
4-Bromofluorobenzene (S)	%	105	70-130		12/22/15 12:30	
Toluene-d8 (S)	%	100	70-130		12/22/15 12:30	

LABORATORY CONTROL SAMPLE: 1635814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.056	112	70-130	
1,1-Dichloroethane	mg/L	.05	0.052	103	70-130	
1,1-Dichloroethene	mg/L	.05	0.055	109	70-132	
1,2-Dichloroethane	mg/L	.05	0.048	96	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.051	102	70-131	
Tetrachloroethene	mg/L	.05	0.054	108	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.052	105	70-130	
Trichloroethene	mg/L	.05	0.055	110	70-130	
Vinyl chloride	mg/L	.05	0.053	106	50-150	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			107	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1635815

Parameter	Units	92280507011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	3.1 ug/L	.02	0.028	126	70-130	
1,1-Dichloroethane	mg/L	0.39J ug/L	.02	0.022	109	70-130	
1,1-Dichloroethene	mg/L	30.7 ug/L	.02	0.053	110	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.021	103	70-130	
cis-1,2-Dichloroethene	mg/L	40.1 ug/L	.02	0.061	104	70-130	
Tetrachloroethene	mg/L	ND	.02	0.022	112	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

MATRIX SPIKE SAMPLE: 1635815

Parameter	Units	92280507011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.022	107	70-130	
Vinyl chloride	mg/L	ND	.02	0.021	103	70-130	
1,2-Dichloroethane-d4 (S)	%				109	70-130	
4-Bromofluorobenzene (S)	%				107	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 1635816

Parameter	Units	92280507002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	3.1 ug/L	0.0031	1	30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	26.6 ug/L	0.025	6	30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	6.3 ug/L	0.0062	2	30	
Vinyl chloride	mg/L	0.94J ug/L	0.00092J		30	
1,2-Dichloroethane-d4 (S)	%	111	110	1		
4-Bromofluorobenzene (S)	%	103	102	1		
Toluene-d8 (S)	%	101	101	0		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

QC Batch: MSV/34801
QC Batch Method: EPA 8260B Mod.
Analysis Method: EPA 8260B Mod.
Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92279977001

METHOD BLANK: 1633915 Matrix: Water
Associated Lab Samples: 92279977001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	0.0019	12/19/15 15:34	
1,2-Dichloroethane-d4 (S)	%	104	50-150		12/19/15 15:34	
Toluene-d8 (S)	%	101	50-150		12/19/15 15:34	

LABORATORY CONTROL SAMPLE: 1633916

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.019	94	71-125	
1,2-Dichloroethane-d4 (S)	%			102	50-150	
Toluene-d8 (S)	%			100	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1633917 1633918

Parameter	Units	92279977001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	mg/L	ND	.02	.02	0.019	0.019	94	95	50-150	1	30	
1,2-Dichloroethane-d4 (S)	%						104	103	50-150		150	
Toluene-d8 (S)	%						97	99	50-150		150	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

QC Batch: WET/42119 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92279977001

METHOD BLANK: 1635091 Matrix: Water
Associated Lab Samples: 92279977001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.0	12/22/15 12:00	

LABORATORY CONTROL SAMPLE: 1635092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	47.9	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635093 1635094

Parameter	Units	92280197001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	13.1	50	50	61.9	61.3	98	96	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635348 1635349

Parameter	Units	92280201003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	16.3	50	50	64.7	65.5	97	98	80-120	1	25	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

QC Batch: WET/42126
QC Batch Method: SM 4500-S2D
Analysis Method: SM 4500-S2D
Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92279977001

METHOD BLANK: 1635313
Matrix: Water
Associated Lab Samples: 92279977001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.10	12/22/15 20:09	

LABORATORY CONTROL SAMPLE: 1635314

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.51	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635315 1635316

Parameter	Units	92279977001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.49	0.50	99	99	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635317 1635318

Parameter	Units	92280047001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.52	0.55	105	110	90-110	5	10	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

QC Batch: WETA/25815
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92279977001

METHOD BLANK: 1631016 Matrix: Water
Associated Lab Samples: 92279977001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	0.010	12/16/15 18:51	

LABORATORY CONTROL SAMPLE: 1631017

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1631018 1631019

Parameter	Units	92279986001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	8.0	2.5	2.5	9.1	9.1	42	42	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1631020 1631021

Parameter	Units	92279986002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.85	2.5	2.5	3.1	3.1	91	92	90-110	0	10	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

QC Batch: WETA/25875
QC Batch Method: SM 5310B
Analysis Method: SM 5310B
Analysis Description: 5310B TOC
Associated Lab Samples: 92279977001

METHOD BLANK: 1635064
Matrix: Water
Associated Lab Samples: 92279977001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	12/22/15 11:27	

LABORATORY CONTROL SAMPLE: 1635065

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	23.9	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635066 1635067

Parameter	Units	92280054003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	25	25	25.7	25.9	101	102	90-110	1	5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635068 1635069

Parameter	Units	92280197002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.1	25	25	25.9	26.2	99	101	90-110	1	5	

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QUALIFIERS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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.

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TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-G	Pace Analytical Services - Greenwood
PASI-M	Pace Analytical Services - Minneapolis
PASI-W	Pace Analytical Services - Greenwood

ANALYTE QUALIFIERS

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92279977001	**OBG-W2**	RSK 175	AIR/24876		
92279977001	**OBG-W2**	EPA 300.0	GWD/2758		
92279977001	**OBG-W2**	EPA 8260	MSV/34886		
92279977001	**OBG-W2**	EPA 8260B Mod.	MSV/34801		
92279977001	**OBG-W2**	SM 2320B	WET/42119		
92279977001	**OBG-W2**	SM 4500-S2D	WET/42126		
92279977001	**OBG-W2**	EPA 353.2	WETA/25815		
92279977001	**OBG-W2**	SM 5310B	WETA/25875		

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Client Name: Eathon

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Courier (Circle): (Fed Ex) UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: (IR Gun#5 - 155271998) Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:

Temp Correction Factor: Add / Subtract 0.0 C

Corrected Cooler Temp.: 3.7 C Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: RAB 12/16/15

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☑No ☐N/A	6. Nitrates
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: NMG Date: 12-16-15

SRF Review: NMG Date: 12-17-15

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# : 92279977

92279977

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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

1997615

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Earth Con	Report To: Kristen Rivera	Attention:
Address: 1880 West Oak Pkwy Marietta, GA 30062	Copy To:	Company Name:
		Address:
Email To: krivera@earthcon.com	Purchase Order No.:	Pace Quote Reference:
Phone: 770-913-2100 Fax: 770-913-7375	Project Name: AMC Dalton	Pace Project Manager:
Requested Due Date/TAT:	Project Number: 02.2014.392.00	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE)

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VOCs	1,4 Dioxane	Chloride	Sulfide	Nitrates	Alkalinity	Methane/Ethane/Ethene	TOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GBG-W2	WT	G			12/15/15	13:00		15	5			6	1			3	3	3	1	1	1	3		3		92279977 001
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
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)
Nitrates	SNWay 12/15/15		1615	B. Petit	12-15	1615	3.7			
				Bill Dalton	12/16	10:30	3.7	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE: _____

PRINT Name of SAMPLER: Kristen Henry

SIGNATURE of SAMPLER: _____ DATE Signed (MM/DD/YY): 12/15/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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

December 29, 2015

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280267

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on December 17, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Nicole Gasiorowski

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280267

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280267

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92280267001	**ASW-BYPASS**	Water	12/16/15 13:45	12/17/15 10:20
92280267002	**ASW-2**	Water	12/16/15 14:00	12/17/15 10:20
92280267003	**ASW-1**	Water	12/16/15 14:20	12/17/15 10:20
92280267004	**ASW-UPSTREAM**	Water	12/16/15 14:30	12/17/15 10:20
92280267005	**TRIP BLANK**	Water	12/16/15 00:00	12/17/15 10:20

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SAMPLE ANALYTE COUNT

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280267

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92280267001	**ASW-BYPASS**	EPA 8260	NB	12
92280267002	**ASW-2**	EPA 8260	NB	12
92280267003	**ASW-1**	EPA 8260	NB	12
92280267004	**ASW-UPSTREAM**	EPA 8260	NB	12
92280267005	**TRIP BLANK**	EPA 8260	NB	12

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280267

Sample: ASW-BYPASS **Lab ID: 92280267001** Collected: 12/16/15 13:45 Received: 12/17/15 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/26/15 16:52	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/26/15 16:52	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/26/15 16:52	75-35-4	
cis-1,2-Dichloroethene	**0.00041J**	mg/L	0.0010	0.00019	1		12/26/15 16:52	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/26/15 16:52	156-60-5	
Tetrachloroethene	**0.0030**	mg/L	0.0010	0.00046	1		12/26/15 16:52	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/26/15 16:52	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/26/15 16:52	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/26/15 16:52	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	112	%	70-130		1		12/26/15 16:52	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		12/26/15 16:52	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/26/15 16:52	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280267

Sample: ASW-2 **Lab ID: 92280267002** Collected: 12/16/15 14:00 Received: 12/17/15 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/25/15 04:40	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/25/15 04:40	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/25/15 04:40	75-35-4	
cis-1,2-Dichloroethene	**0.0055**	mg/L	0.0010	0.00019	1		12/25/15 04:40	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/25/15 04:40	156-60-5	
Tetrachloroethene	**0.035**	mg/L	0.0010	0.00046	1		12/25/15 04:40	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/25/15 04:40	71-55-6	
Trichloroethene	**0.0030**	mg/L	0.0010	0.00047	1		12/25/15 04:40	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/25/15 04:40	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		12/25/15 04:40	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		12/25/15 04:40	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/25/15 04:40	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280267

Sample: ASW-1 **Lab ID: 92280267003** Collected: 12/16/15 14:20 Received: 12/17/15 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0025	0.00080	2.5		12/28/15 22:45	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0025	0.00060	2.5		12/28/15 22:45	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0025	0.0014	2.5		12/28/15 22:45	75-35-4	
cis-1,2-Dichloroethene	**0.033**	mg/L	0.0025	0.00048	2.5		12/28/15 22:45	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0025	0.0012	2.5		12/28/15 22:45	156-60-5	
Tetrachloroethene	**0.36**	mg/L	0.0025	0.0012	2.5		12/28/15 22:45	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0025	0.0012	2.5		12/28/15 22:45	71-55-6	
Trichloroethene	**0.019**	mg/L	0.0025	0.0012	2.5		12/28/15 22:45	79-01-6	
Vinyl chloride	**0.0019J**	mg/L	0.0025	0.0016	2.5		12/28/15 22:45	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	117	%	70-130		2.5		12/28/15 22:45	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		2.5		12/28/15 22:45	17060-07-0	
Toluene-d8 (S)	96	%	70-130		2.5		12/28/15 22:45	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280267

Sample: ASW-UPSTREAM **Lab ID: 92280267004** Collected: 12/16/15 14:30 Received: 12/17/15 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/25/15 06:05	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/25/15 06:05	107-06-2	
1,1-Dichloroethene	**0.00080J**	mg/L	0.0010	0.00056	1		12/25/15 06:05	75-35-4	
cis-1,2-Dichloroethene	**0.0015**	mg/L	0.0010	0.00019	1		12/25/15 06:05	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/25/15 06:05	156-60-5	
Tetrachloroethene	**0.00047J**	mg/L	0.0010	0.00046	1		12/25/15 06:05	127-18-4	
1,1,1-Trichloroethane	**0.00070J**	mg/L	0.0010	0.00048	1		12/25/15 06:05	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/25/15 06:05	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/25/15 06:05	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	109	%	70-130		1		12/25/15 06:05	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		12/25/15 06:05	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/25/15 06:05	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280267

Sample: TRIP BLANK **Lab ID: 92280267005** Collected: 12/16/15 00:00 Received: 12/17/15 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/24/15 19:16	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/24/15 19:16	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/24/15 19:16	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		12/24/15 19:16	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/24/15 19:16	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		12/24/15 19:16	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		12/24/15 19:16	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/24/15 19:16	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/24/15 19:16	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		1		12/24/15 19:16	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		12/24/15 19:16	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/24/15 19:16	2037-26-5	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280267

QC Batch: MSV/34921 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92280267005

METHOD BLANK: 1637355 Matrix: Water
Associated Lab Samples: 92280267005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/24/15 16:59	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/24/15 16:59	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/24/15 16:59	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/24/15 16:59	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/24/15 16:59	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/24/15 16:59	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/24/15 16:59	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/24/15 16:59	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/24/15 16:59	
1,2-Dichloroethane-d4 (S)	%	107	70-130		12/24/15 16:59	
4-Bromofluorobenzene (S)	%	107	70-130		12/24/15 16:59	
Toluene-d8 (S)	%	103	70-130		12/24/15 16:59	

LABORATORY CONTROL SAMPLE: 1637356

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.062	123	70-130	
1,1-Dichloroethane	mg/L	.05	0.055	111	70-130	
1,1-Dichloroethene	mg/L	.05	0.057	114	70-132	
1,2-Dichloroethane	mg/L	.05	0.053	105	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.055	109	70-131	
Tetrachloroethene	mg/L	.05	0.058	116	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.056	111	70-130	
Trichloroethene	mg/L	.05	0.060	120	70-130	
Vinyl chloride	mg/L	.05	0.055	110	50-150	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			108	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 1637357

Parameter	Units	92280229006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.026	129	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.025	116	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.025	123	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.022	108	70-130	
cis-1,2-Dichloroethene	mg/L	ND	.02	0.023	114	70-130	
Tetrachloroethene	mg/L	1.0 ug/L	.02	0.024	117	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280267

MATRIX SPIKE SAMPLE: 1637357

Parameter	Units	92280229006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.024	116	70-130	
Trichloroethene	mg/L	ND	.02	0.024	122	69-151	
Vinyl chloride	mg/L	ND	.02	0.023	115	70-130	
1,2-Dichloroethane-d4 (S)	%				105	70-130	
4-Bromofluorobenzene (S)	%				110	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1637358

Parameter	Units	92280229007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	1.7 ug/L	0.0017	2	30	
1,1-Dichloroethane	mg/L	ND	0.0019	0	30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	23.5 ug/L	0.023	1	30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	110	108	2		
4-Bromofluorobenzene (S)	%	109	108	1		
Toluene-d8 (S)	%	102	100	2		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280267

QC Batch: MSV/34926 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92280267002, 92280267004

METHOD BLANK: 1637482 Matrix: Water
Associated Lab Samples: 92280267002, 92280267004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/25/15 02:57	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/25/15 02:57	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/25/15 02:57	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/25/15 02:57	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/25/15 02:57	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/25/15 02:57	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/25/15 02:57	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/25/15 02:57	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/25/15 02:57	
1,2-Dichloroethane-d4 (S)	%	107	70-130		12/25/15 02:57	
4-Bromofluorobenzene (S)	%	111	70-130		12/25/15 02:57	
Toluene-d8 (S)	%	101	70-130		12/25/15 02:57	

LABORATORY CONTROL SAMPLE: 1637483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.062	125	70-130	
1,1-Dichloroethane	mg/L	.05	0.055	110	70-130	
1,1-Dichloroethene	mg/L	.05	0.057	114	70-132	
1,2-Dichloroethane	mg/L	.05	0.052	104	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.054	108	70-131	
Tetrachloroethene	mg/L	.05	0.056	112	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.054	108	70-130	
Trichloroethene	mg/L	.05	0.058	117	70-130	
Vinyl chloride	mg/L	.05	0.055	110	50-150	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			111	70-130	
Toluene-d8 (S)	%			100	70-130	

SAMPLE DUPLICATE: 1637485

Parameter	Units	92280267002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	0.0055	0.0050	9	30	
Tetrachloroethene	mg/L	0.035	0.034	2	30	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280267

SAMPLE DUPLICATE: 1637485

Parameter	Units	92280267002 Result	Dup Result	RPD	Max RPD	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	0.0030	0.0028	10	30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	110	108	2		
4-Bromofluorobenzene (S)	%	107	110	3		
Toluene-d8 (S)	%	100	99	1		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280267

QC Batch: MSV/34941 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92280267001

METHOD BLANK: 1637596 Matrix: Water
Associated Lab Samples: 92280267001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/26/15 15:10	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/26/15 15:10	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/26/15 15:10	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/26/15 15:10	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/26/15 15:10	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/26/15 15:10	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/26/15 15:10	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/26/15 15:10	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/26/15 15:10	
1,2-Dichloroethane-d4 (S)	%	102	70-130		12/26/15 15:10	
4-Bromofluorobenzene (S)	%	109	70-130		12/26/15 15:10	
Toluene-d8 (S)	%	101	70-130		12/26/15 15:10	

LABORATORY CONTROL SAMPLE: 1637597

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.058	117	70-130	
1,1-Dichloroethane	mg/L	.05	0.053	106	70-130	
1,1-Dichloroethene	mg/L	.05	0.055	109	70-132	
1,2-Dichloroethane	mg/L	.05	0.048	95	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.052	103	70-131	
Tetrachloroethene	mg/L	.05	0.055	110	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.052	105	70-130	
Trichloroethene	mg/L	.05	0.059	118	70-130	
Vinyl chloride	mg/L	.05	0.054	107	50-150	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			110	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280267

QC Batch: MSV/34965 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92280267003

METHOD BLANK: 1638085 Matrix: Water
Associated Lab Samples: 92280267003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/28/15 19:03	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/28/15 19:03	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/28/15 19:03	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/28/15 19:03	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/28/15 19:03	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/28/15 19:03	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/28/15 19:03	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/28/15 19:03	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/28/15 19:03	
1,2-Dichloroethane-d4 (S)	%	108	70-130		12/28/15 19:03	
4-Bromofluorobenzene (S)	%	117	70-130		12/28/15 19:03	
Toluene-d8 (S)	%	99	70-130		12/28/15 19:03	

LABORATORY CONTROL SAMPLE: 1638086

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.055	111	70-130	
1,1-Dichloroethane	mg/L	.05	0.045	90	70-130	
1,1-Dichloroethene	mg/L	.05	0.049	98	70-132	
1,2-Dichloroethane	mg/L	.05	0.047	94	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.046	92	70-131	
Tetrachloroethene	mg/L	.05	0.060	120	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.045	91	70-130	
Trichloroethene	mg/L	.05	0.055	110	70-130	
Vinyl chloride	mg/L	.05	0.045	89	50-150	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			118	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE SAMPLE: 1638087

Parameter	Units	92280234012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.026	132	70-130	M1
1,1-Dichloroethane	mg/L	ND	.02	0.023	104	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.026	113	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.022	107	70-130	
cis-1,2-Dichloroethene	mg/L	ND	.02	0.023	102	70-130	
Tetrachloroethene	mg/L	ND	.02	0.027	135	70-130	M1

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(704)875-9092

QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280267

MATRIX SPIKE SAMPLE: 1638087

Parameter	Units	92280234012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.021	103	70-130	
Trichloroethene	mg/L	3.0 ug/L	.02	0.030	133	69-151	
Vinyl chloride	mg/L	ND	.02	0.020	100	70-130	
1,2-Dichloroethane-d4 (S)	%				106	70-130	
4-Bromofluorobenzene (S)	%				118	70-130	
Toluene-d8 (S)	%				95	70-130	

SAMPLE DUPLICATE: 1638088

Parameter	Units	92280234021 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	21.9 ug/L	0.022	1	30	
1,1-Dichloroethane	mg/L	ND	0.0043	1	30	
1,1-Dichloroethene	mg/L	21.2 ug/L	0.021	0	30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	109	106	2		
4-Bromofluorobenzene (S)	%	116	119	2		
Toluene-d8 (S)	%	98	98	0		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280267

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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.

ANALYTE QUALIFIERS

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92280267

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92280267001	**ASW-BYPASS**	EPA 8260	MSV/34941		
92280267002	**ASW-2**	EPA 8260	MSV/34926		
92280267003	**ASW-1**	EPA 8260	MSV/34965		
92280267004	**ASW-UPSTREAM**	EPA 8260	MSV/34926		
92280267005	**TRIP BLANK**	EPA 8260	MSV/34921		

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Client Name: Earthcon

* Page 2 of 2 is for Internal Use Only

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☑ yes ☐ no

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

Thermometer Used: IR Gun#5 - 155271998 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0 C

Corrected Cooler Temp.: 2.7 C Biological Tissue is Frozen: Yes No (N/A)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 12/17 MS

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16. MS 12/17/15
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):	MS 12/17/15	

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

SCURF Review:	NMG	Date:	12-17-15
SRF Review:	NMG	Date:	12-17-15

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#: 92280267



Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of

1997620

Section A Required Client Information:

Company: Earthcon Consultants, Inc
Address: 1880 West Oak Pkwy
Marietta, GA 30062
Email To: lrivera@earthcon.com
Phone: 770-973-2100 Fax: 770-973-7375
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Kristen Rivera
Copy To:
Purchase Order No.:
Project Name: AMC Dalton
Project Number: 02 2014 0392.00

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VOCs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	ASW-Bypass	WT	G			12/16/15	13:45		3				3					Y	3	92280267001
2	ASW-2	WT	G			12/16/15	14:00		3				3					Y	3	002
3	ASW-1	WT	G			12/16/15	14:20		3				3					Y	3	003
4	ASW-Upstream	WT	G			12/16/15	14:30		3				3					Y	3	004
5	Trip Blank	WT				12/16/15	—		2				2					Y	2	005
6																				
7																				
8																				
9																				
10																				
11																				
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)
	Kristen Henry / Earthcon	12/16/15	17:40	D. Auth	12-16-15	17:40				
				Mirat Patel AR	12/17/15	1020	2.7	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Samantha Woolf
SIGNATURE of SAMPLER: Samantha Woolf
DATE Signed (MM/DD/YY): 12/16/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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

January 27, 2016

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on December 16, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

This revision was issued on 1/27/16 to report ethene and ethane, as originally requested on the COC.

Revised to change units.

Revised January 26, to include Ethane and Ethene.

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

Sincerely,

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Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

Greenwood Certification IDs
816 Durst Avenue East, Greenwood, SC 29649
South Carolina Laboratory ID #: 24562
North Carolina Divison of Water Resources Certification number 25
Florida Certification number E87633
Virginia VELAP ID: 460250
Asbestos NVLAP accreditation: 101410-0

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SAMPLE SUMMARY

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92279977001	**OBG-W2**	Water	12/15/15 13:00	12/16/15 10:30

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SAMPLE ANALYTE COUNT

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92279977001	**OBG-W2**	RSK 175	DR1	3	PASI-M
		EPA 300.0	CDC	2	PASI-W
		EPA 8260	NB	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 4500-S2D	MSH	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	MDW	1	PASI-A

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

Sample: OBG-W2 **Lab ID: 92279977001** Collected: 12/15/15 13:00 Received: 12/16/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	mg/L	0.010	0.0050	1		12/18/15 19:07	74-84-0	
Ethene	ND	mg/L	0.010	0.00047	1		12/18/15 19:07	74-85-1	
Methane	**0.0033J**	mg/L	0.010	0.00063	1		12/18/15 19:07	74-82-8	
3000 IC Anions 28 Days, GWD	Analytical Method: EPA 300.0								
Chloride	**1.6**	mg/L	1.0	0.10	1		12/22/15 12:13	16887-00-6	
Sulfate	**4.9**	mg/L	1.0	0.40	1		12/22/15 12:13	14808-79-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		12/22/15 19:53	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00024	1		12/22/15 19:53	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		12/22/15 19:53	75-35-4	
cis-1,2-Dichloroethene	**0.00064J**	mg/L	0.0010	0.00019	1		12/22/15 19:53	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		12/22/15 19:53	156-60-5	
Tetrachloroethene	**0.0015**	mg/L	0.0010	0.00046	1		12/22/15 19:53	127-18-4	
1,1,1-Trichloroethane	**0.0020**	mg/L	0.0010	0.00048	1		12/22/15 19:53	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		12/22/15 19:53	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		12/22/15 19:53	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		12/22/15 19:53	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		12/22/15 19:53	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/22/15 19:53	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		12/19/15 18:36	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	105	%	50-150		1		12/19/15 18:36	17060-07-0	
Toluene-d8 (S)	97	%	50-150		1		12/19/15 18:36	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**135**	mg/L	5.0	1.0	1		12/22/15 15:46		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		12/22/15 20:09	18496-25-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.11**	mg/L	0.020	0.010	1		12/16/15 19:21		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		12/23/15 20:02	7440-44-0	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

QC Batch: AIR/24876
QC Batch Method: RSK 175
Analysis Method: RSK 175
Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92279977001

METHOD BLANK: 2161064
Matrix: Water
Associated Lab Samples: 92279977001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethane	mg/L	ND	0.010	0.0050	12/18/15 16:12	
Ethene	mg/L	ND	0.010	0.00047	12/18/15 16:12	
Methane	mg/L	0.0017J	0.010	0.00063	12/18/15 16:12	

LABORATORY CONTROL SAMPLE & LCSD: 2161065 2161066

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	mg/L	.11	0.12	0.11	101	100	85-115	1	20	
Ethene	mg/L	.11	0.11	0.11	101	100	85-115	1	20	
Methane	mg/L	.061	0.061	0.061	100	100	85-115	0	20	

SAMPLE DUPLICATE: 2162542

Parameter	Units	92280047001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	mg/L	ND	ND		20	
Ethene	mg/L	1.4J ug/L	0.0012J		20	
Methane	mg/L	45.5 ug/L	0.043	7	20	

SAMPLE DUPLICATE: 2162543

Parameter	Units	92280054002 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	mg/L	ND	ND		20	
Ethene	mg/L	ND	ND		20	
Methane	mg/L	2.6J ug/L	0.0026J		20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

QC Batch: GWD/2758
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 3000 IC Anions, GWD
Associated Lab Samples: 92279977001

METHOD BLANK: 1635104
Matrix: Water
Associated Lab Samples: 92279977001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.10	12/22/15 09:53	
Sulfate	mg/L	ND	1.0	0.40	12/22/15 09:53	

LABORATORY CONTROL SAMPLE: 1635105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.0	106	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635106 1635107

Parameter	Units	92279612001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.4	50	50	53.9	54.8	97	99	90-110	2	20	
Sulfate	mg/L	11.5	50	50	59.4	60.2	96	97	90-110	1	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

QC Batch: MSV/34886 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92279977001

METHOD BLANK: 1635813 Matrix: Water
Associated Lab Samples: 92279977001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	0.00048	12/22/15 12:30	
1,1-Dichloroethane	mg/L	ND	0.0010	0.00032	12/22/15 12:30	
1,1-Dichloroethene	mg/L	ND	0.0010	0.00056	12/22/15 12:30	
1,2-Dichloroethane	mg/L	ND	0.0010	0.00024	12/22/15 12:30	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	0.00019	12/22/15 12:30	
Tetrachloroethene	mg/L	ND	0.0010	0.00046	12/22/15 12:30	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	0.00049	12/22/15 12:30	
Trichloroethene	mg/L	ND	0.0010	0.00047	12/22/15 12:30	
Vinyl chloride	mg/L	ND	0.0010	0.00062	12/22/15 12:30	
1,2-Dichloroethane-d4 (S)	%	107	70-130		12/22/15 12:30	
4-Bromofluorobenzene (S)	%	105	70-130		12/22/15 12:30	
Toluene-d8 (S)	%	100	70-130		12/22/15 12:30	

LABORATORY CONTROL SAMPLE: 1635814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.056	112	70-130	
1,1-Dichloroethane	mg/L	.05	0.052	103	70-130	
1,1-Dichloroethene	mg/L	.05	0.055	109	70-132	
1,2-Dichloroethane	mg/L	.05	0.048	96	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.051	102	70-131	
Tetrachloroethene	mg/L	.05	0.054	108	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.052	105	70-130	
Trichloroethene	mg/L	.05	0.055	110	70-130	
Vinyl chloride	mg/L	.05	0.053	106	50-150	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			107	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1635815

Parameter	Units	92280507011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	3.1 ug/L	.02	0.028	126	70-130	
1,1-Dichloroethane	mg/L	0.39J ug/L	.02	0.022	109	70-130	
1,1-Dichloroethene	mg/L	30.7 ug/L	.02	0.053	110	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.021	103	70-130	
cis-1,2-Dichloroethene	mg/L	40.1 ug/L	.02	0.061	104	70-130	
Tetrachloroethene	mg/L	ND	.02	0.022	112	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

MATRIX SPIKE SAMPLE: 1635815

Parameter	Units	92280507011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.022	107	70-130	
Vinyl chloride	mg/L	ND	.02	0.021	103	70-130	
1,2-Dichloroethane-d4 (S)	%				109	70-130	
4-Bromofluorobenzene (S)	%				107	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 1635816

Parameter	Units	92280507002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	3.1 ug/L	0.0031	1	30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	26.6 ug/L	0.025	6	30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	6.3 ug/L	0.0062	2	30	
Vinyl chloride	mg/L	0.94J ug/L	0.00092J		30	
1,2-Dichloroethane-d4 (S)	%	111	110	1		
4-Bromofluorobenzene (S)	%	103	102	1		
Toluene-d8 (S)	%	101	101	0		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

QC Batch: MSV/34801
QC Batch Method: EPA 8260B Mod.
Analysis Method: EPA 8260B Mod.
Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92279977001

METHOD BLANK: 1633915 Matrix: Water
Associated Lab Samples: 92279977001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	0.0019	12/19/15 15:34	
1,2-Dichloroethane-d4 (S)	%	104	50-150		12/19/15 15:34	
Toluene-d8 (S)	%	101	50-150		12/19/15 15:34	

LABORATORY CONTROL SAMPLE: 1633916

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.019	94	71-125	
1,2-Dichloroethane-d4 (S)	%			102	50-150	
Toluene-d8 (S)	%			100	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1633917 1633918

Parameter	Units	92279977001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	mg/L	ND	.02	.02	0.019	0.019	94	95	50-150	1	30	
1,2-Dichloroethane-d4 (S)	%						104	103	50-150		150	
Toluene-d8 (S)	%						97	99	50-150		150	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

QC Batch: WET/42119
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92279977001

METHOD BLANK: 1635091
Matrix: Water
Associated Lab Samples: 92279977001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.0	12/22/15 12:00	

LABORATORY CONTROL SAMPLE: 1635092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	47.9	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635093 1635094

Parameter	Units	92280197001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	13.1	50	50	61.9	61.3	98	96	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635348 1635349

Parameter	Units	92280201003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	16.3	50	50	64.7	65.5	97	98	80-120	1	25	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

QC Batch: WET/42126
QC Batch Method: SM 4500-S2D
Analysis Method: SM 4500-S2D
Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92279977001

METHOD BLANK: 1635313
Matrix: Water
Associated Lab Samples: 92279977001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.10	12/22/15 20:09	

LABORATORY CONTROL SAMPLE: 1635314

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.51	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635315 1635316

Parameter	Units	92279977001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.49	0.50	99	99	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635317 1635318

Parameter	Units	92280047001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.52	0.55	105	110	90-110	5	10	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

QC Batch: WETA/25815
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92279977001

METHOD BLANK: 1631016 Matrix: Water
Associated Lab Samples: 92279977001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	0.010	12/16/15 18:51	

LABORATORY CONTROL SAMPLE: 1631017

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1631018 1631019

Parameter	Units	92279986001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	8.0	2.5	2.5	9.1	9.1	42	42	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1631020 1631021

Parameter	Units	92279986002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.85	2.5	2.5	3.1	3.1	91	92	90-110	0	10	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

QC Batch: WETA/25875
QC Batch Method: SM 5310B
Analysis Method: SM 5310B
Analysis Description: 5310B TOC
Associated Lab Samples: 92279977001

METHOD BLANK: 1635064
Matrix: Water
Associated Lab Samples: 92279977001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	12/22/15 11:27	

LABORATORY CONTROL SAMPLE: 1635065

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	23.9	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635066 1635067

Parameter	Units	92280054003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	25	25	25.7	25.9	101	102	90-110	1	5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1635068 1635069

Parameter	Units	92280197002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.1	25	25	25.9	26.2	99	101	90-110	1	5	

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

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

QUALIFIERS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-M	Pace Analytical Services - Minneapolis
PASI-W	Pace Analytical Services - Greenwood

ANALYTE QUALIFIERS

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

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92279977

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92279977001	**OBG-W2**	RSK 175	AIR/24876		
92279977001	**OBG-W2**	EPA 300.0	GWD/2758		
92279977001	**OBG-W2**	EPA 8260	MSV/34886		
92279977001	**OBG-W2**	EPA 8260B Mod.	MSV/34801		
92279977001	**OBG-W2**	SM 2320B	WET/42119		
92279977001	**OBG-W2**	SM 4500-S2D	WET/42126		
92279977001	**OBG-W2**	EPA 353.2	WETA/25815		
92279977001	**OBG-W2**	SM 5310B	WETA/25875		

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Client Name: Eathon

* Page 2 of 2 is for Internal Use Only

Courier (Circle): (Fed Ex) UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun#5 - 155271998 Type of Ice: Wet Blue None ☑ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:

Temp Correction Factor: Add / Subtract 0.0 C

Corrected Cooler Temp.: 3.7 C Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: RAB 12/16/15

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. Nitrates
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: NMG Date: 12-16-15

SRF Review: NMG Date: 12-17-15

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# : 92279977

92279977

Pace Analytical®
www.pacelabs.com

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

1997615

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Earth Con	Report To: Kristen Rivera	Attention:
Address: 1880 West Oak Pkwy Marietta, GA 30062	Copy To:	Company Name:
		Address:
Email To: krivera@earthcon.com	Purchase Order No.:	Pace Quote Reference:
Phone: 770-913-2100 Fax: 770-913-7375	Project Name: AMC Dalton	Pace Project Manager:
Requested Due Date/TAT:	Project Number: 02.2014.0392.00	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE)

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VOCs	1,4 Dioxane	Chloride	Sulfate	Nitrates	Alkalinity	Methane/Ethane	Ethene	TOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GBG-W2	WT	G			12/15/15	13:00		15	5			6	1			3	3	3	1	1	1	3		3			92279977001
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
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)
Nitrates	SNWay 12/15/15		1615	B. Petit	12-15	1615	3.7			
				Bill Dalton	12/16	10:30	3.7	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kristen Henry

SIGNATURE of SAMPLER: _____ DATE Signed (MM/DD/YY): 12/15/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

APPENDIX E

GROUNDWATER AND SURFACE WATER TREND GRAPHS AND HISTORICAL DATA SUMMARY

Figure E1A. Dobbs Area Monitoring Wells - 1,1,1-TCA (mg/L)

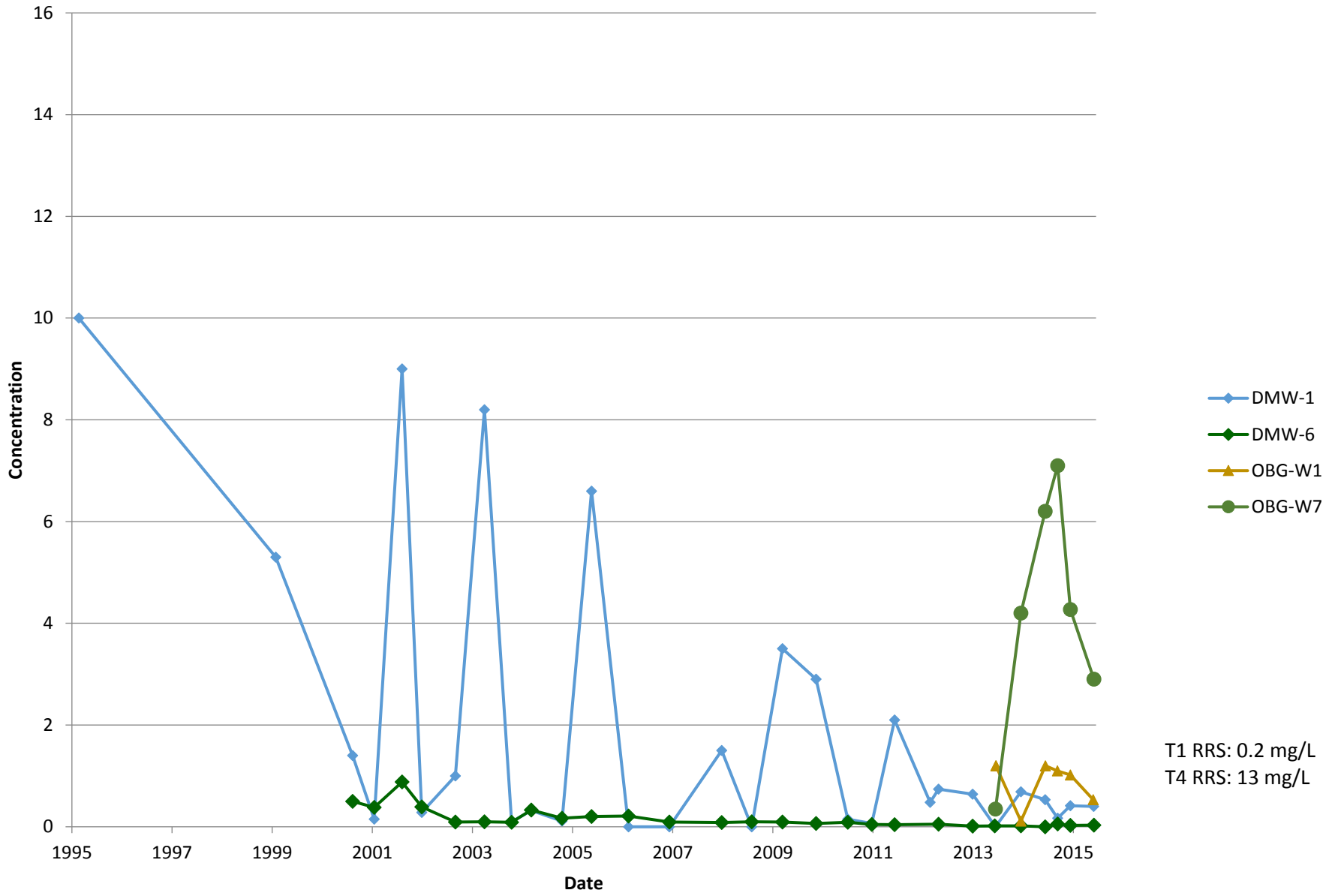


Figure E1B. Dobbs Area Monitoring Wells - 1,1,1-TCA (mg/L)

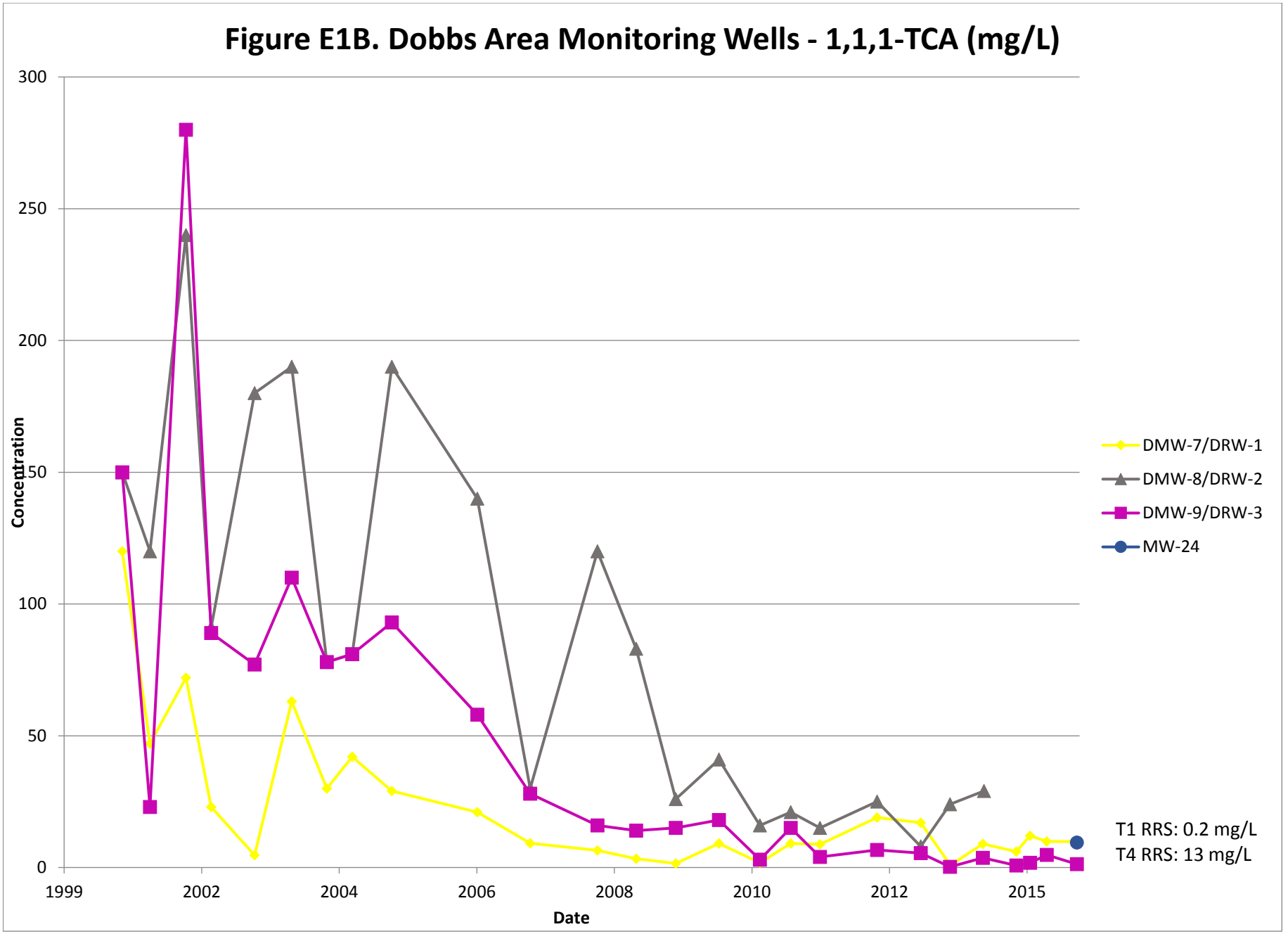


Figure E2. Dobbs Area Monitoring Wells - PCE (mg/L)

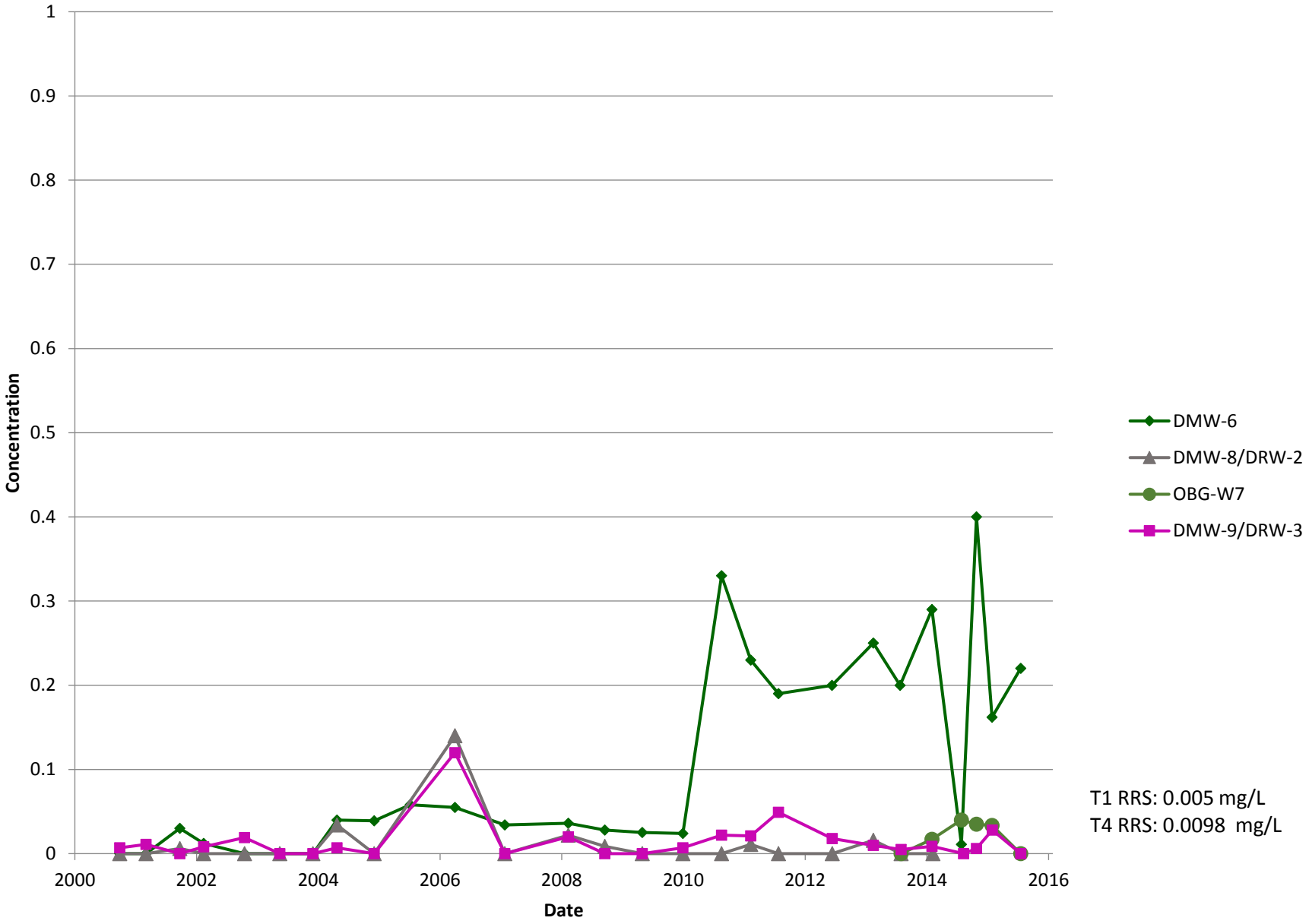


Figure E3. Dobbs Area Monitoring Wells - TCE (mg/L)

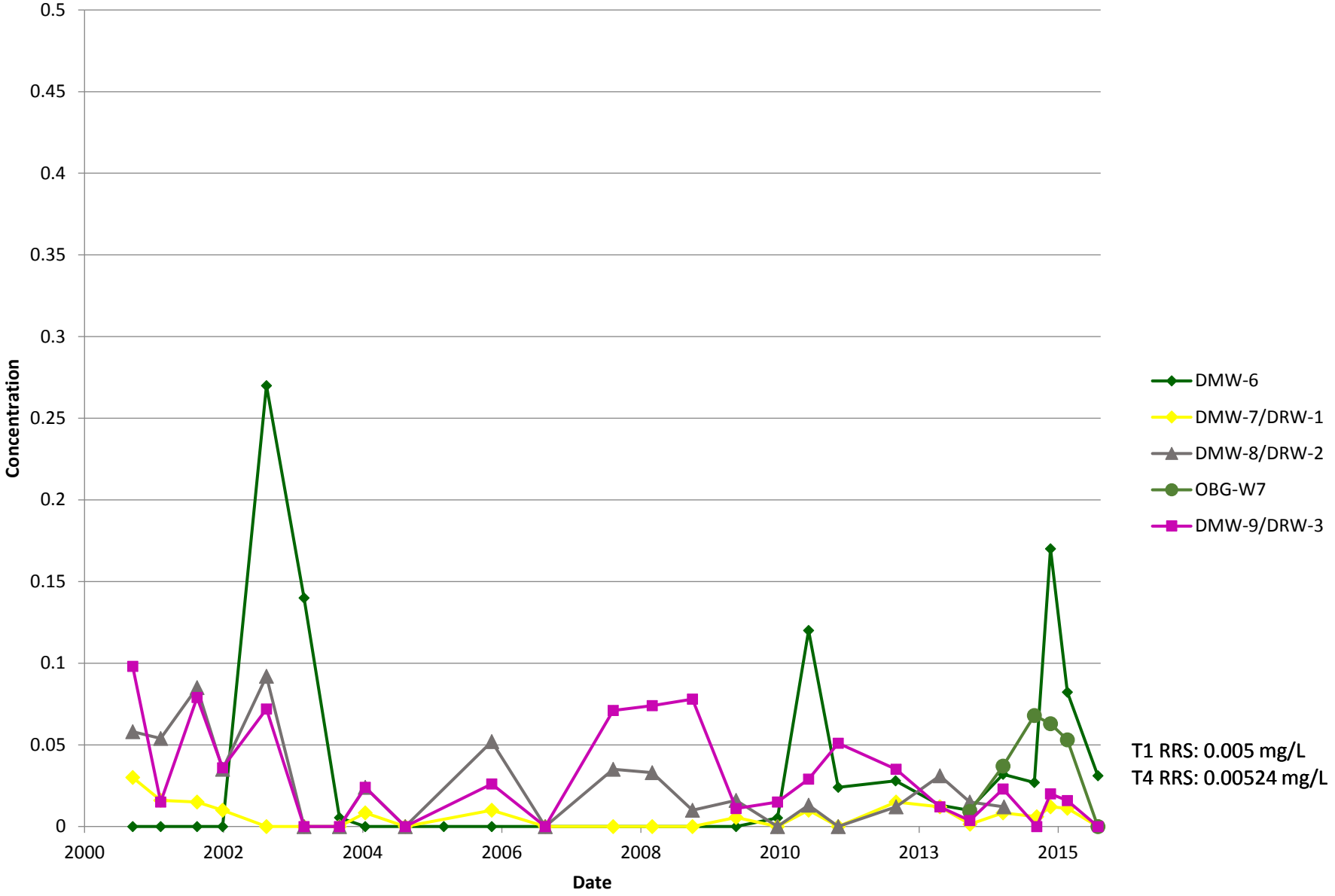


Figure E4. Fire Release Area Monitoring Wells - 1,1,1-TCA (mg/L)

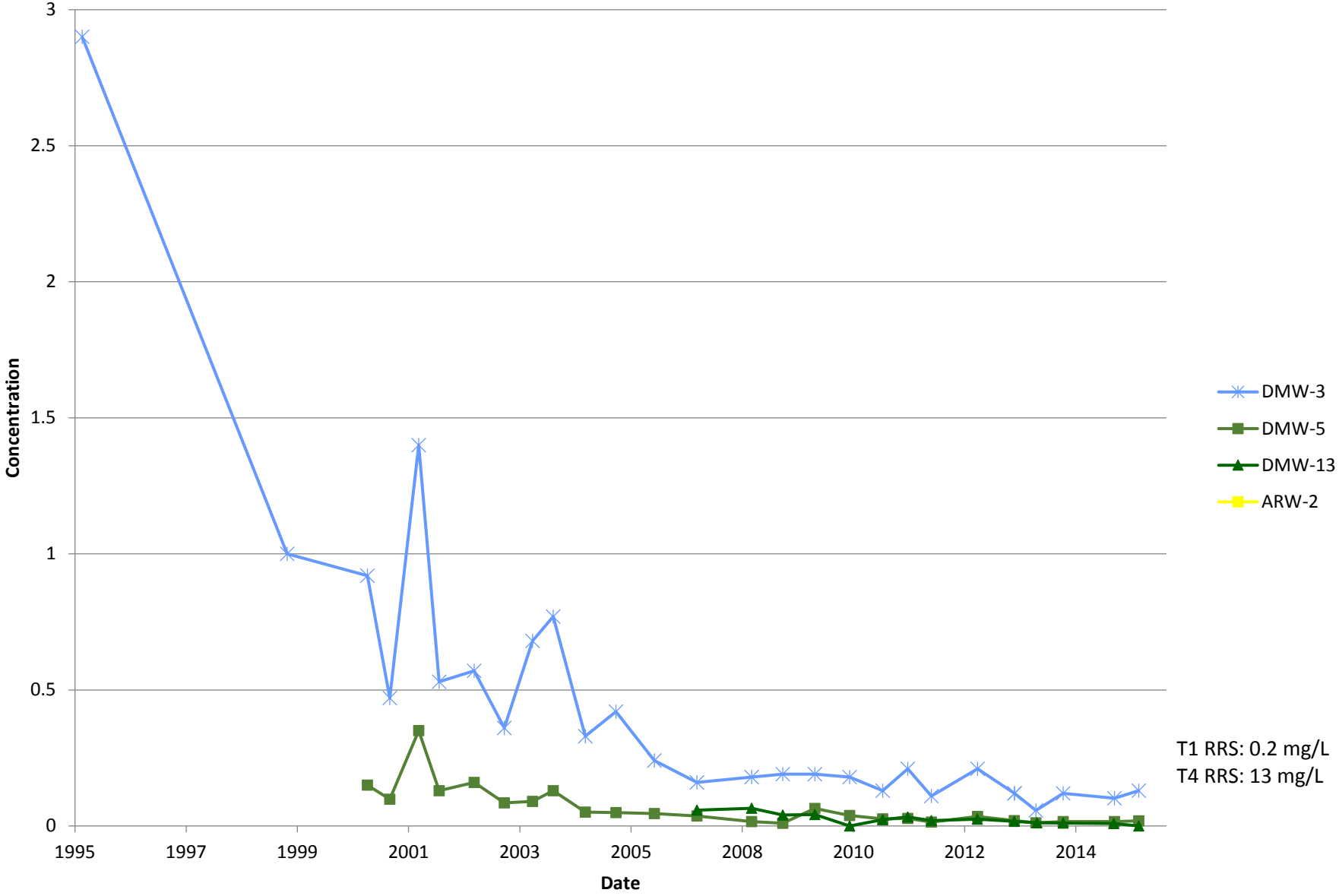


Figure E5A. Fire Release Area Monitoring Wells - South/East Cluster - PCE (mg/L)

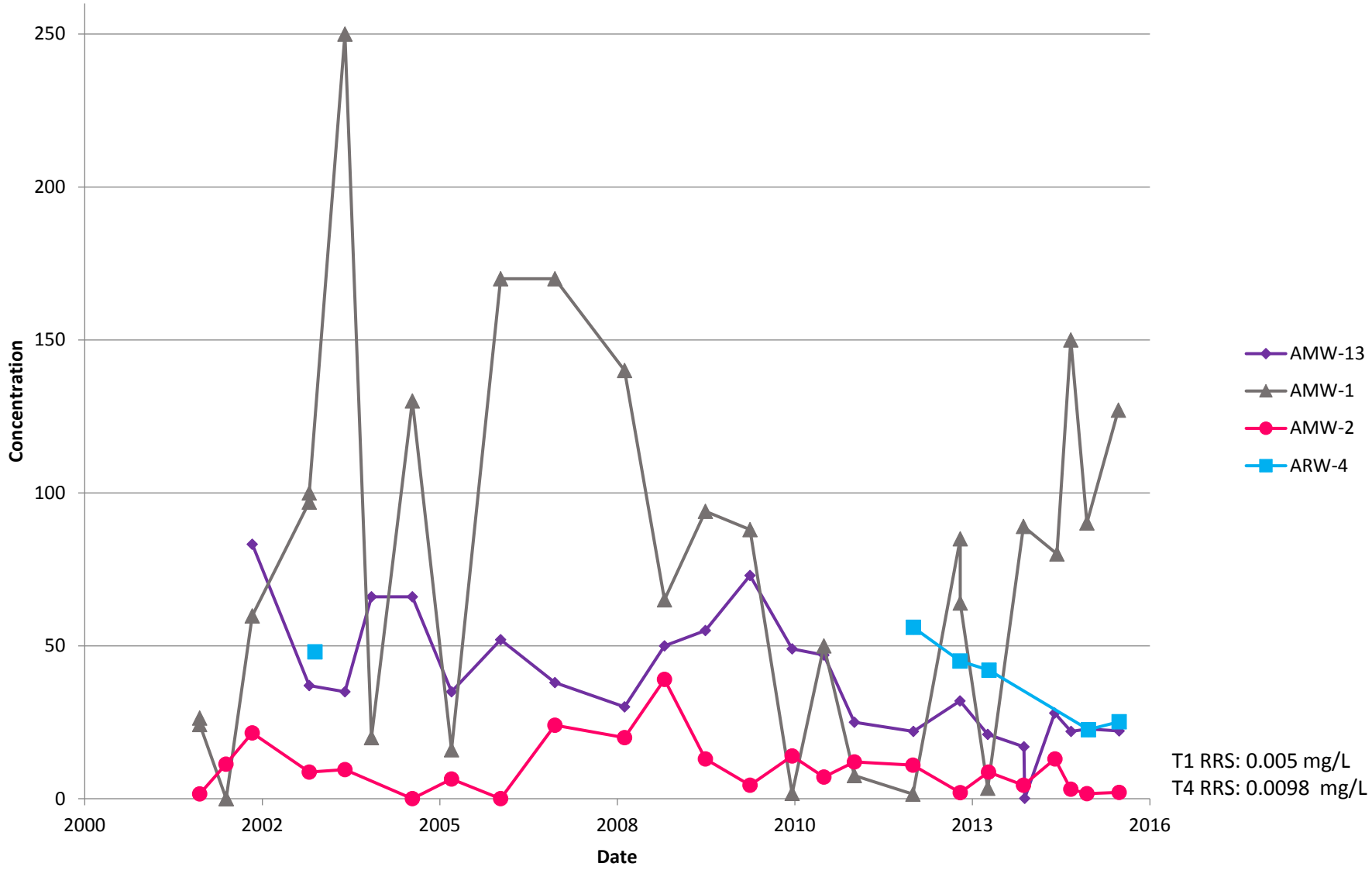


Figure E5B. Fire Release Area Monitoring Wells - East Cluster - PCE (mg/L)

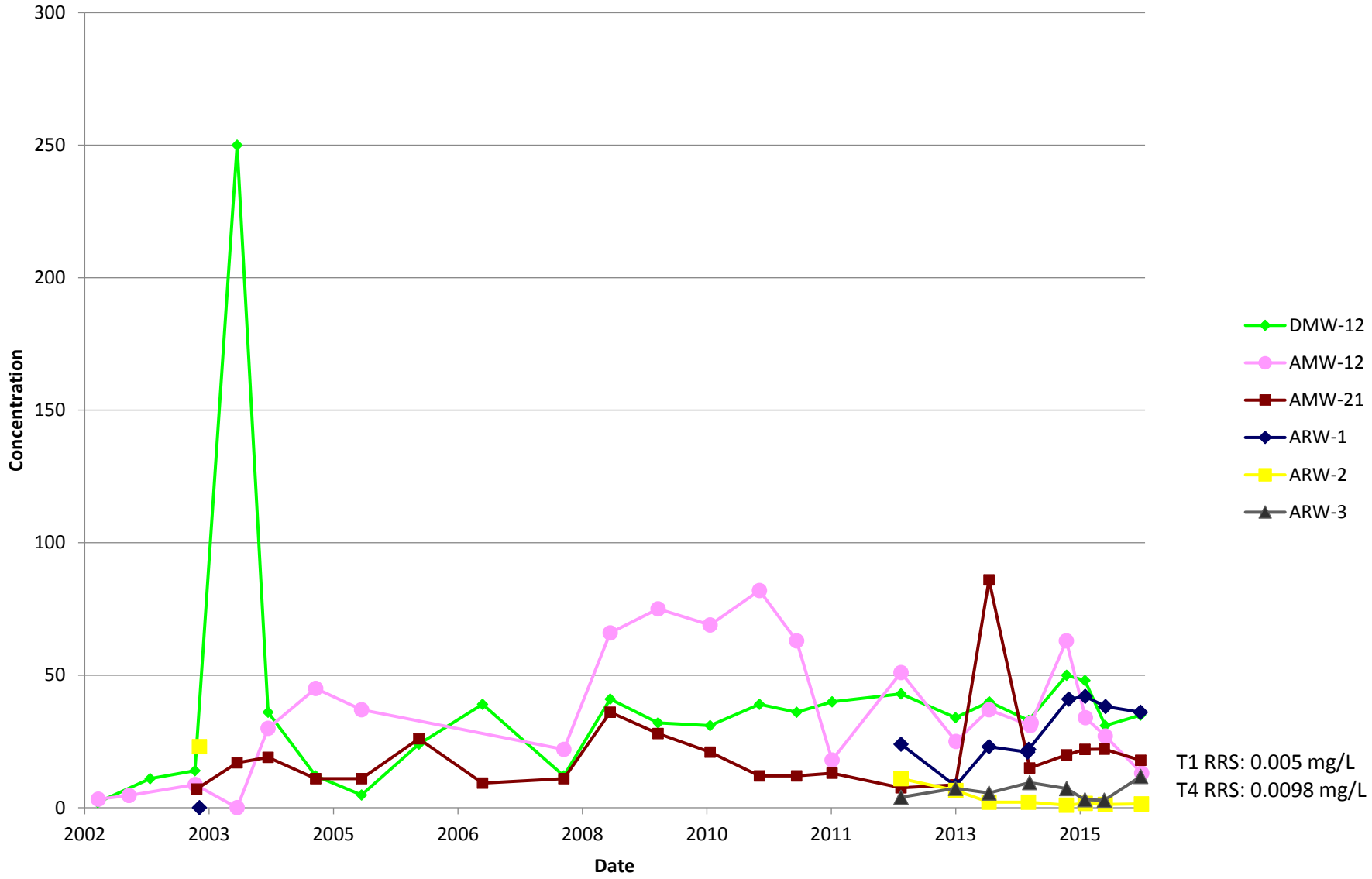


Figure E6A. Fire Release Area Wells - South/East Cluster - TCE (mg/L)

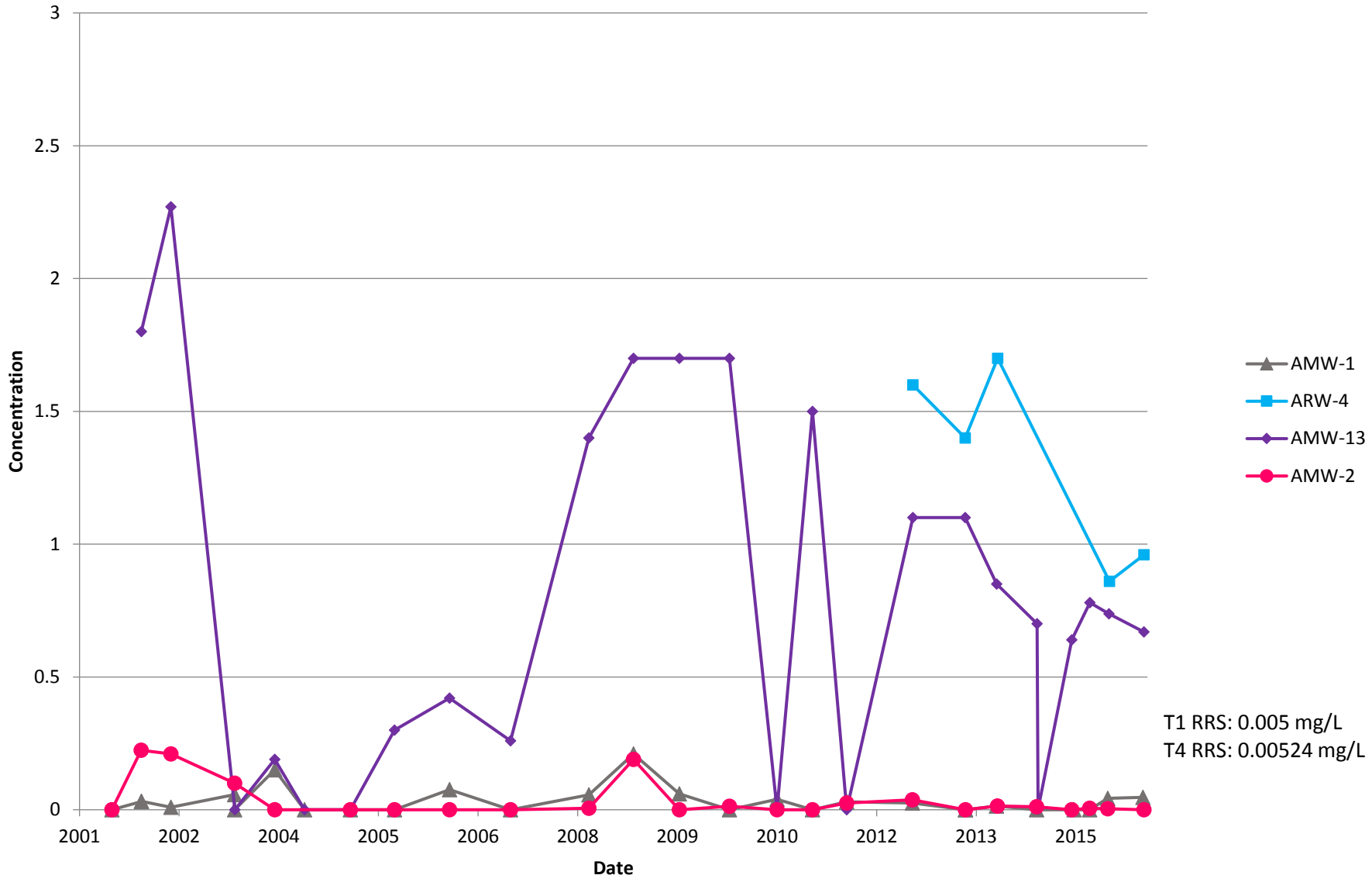


Figure E6B. Fire Release Area Wells - East Cluster - TCE (mg/L)

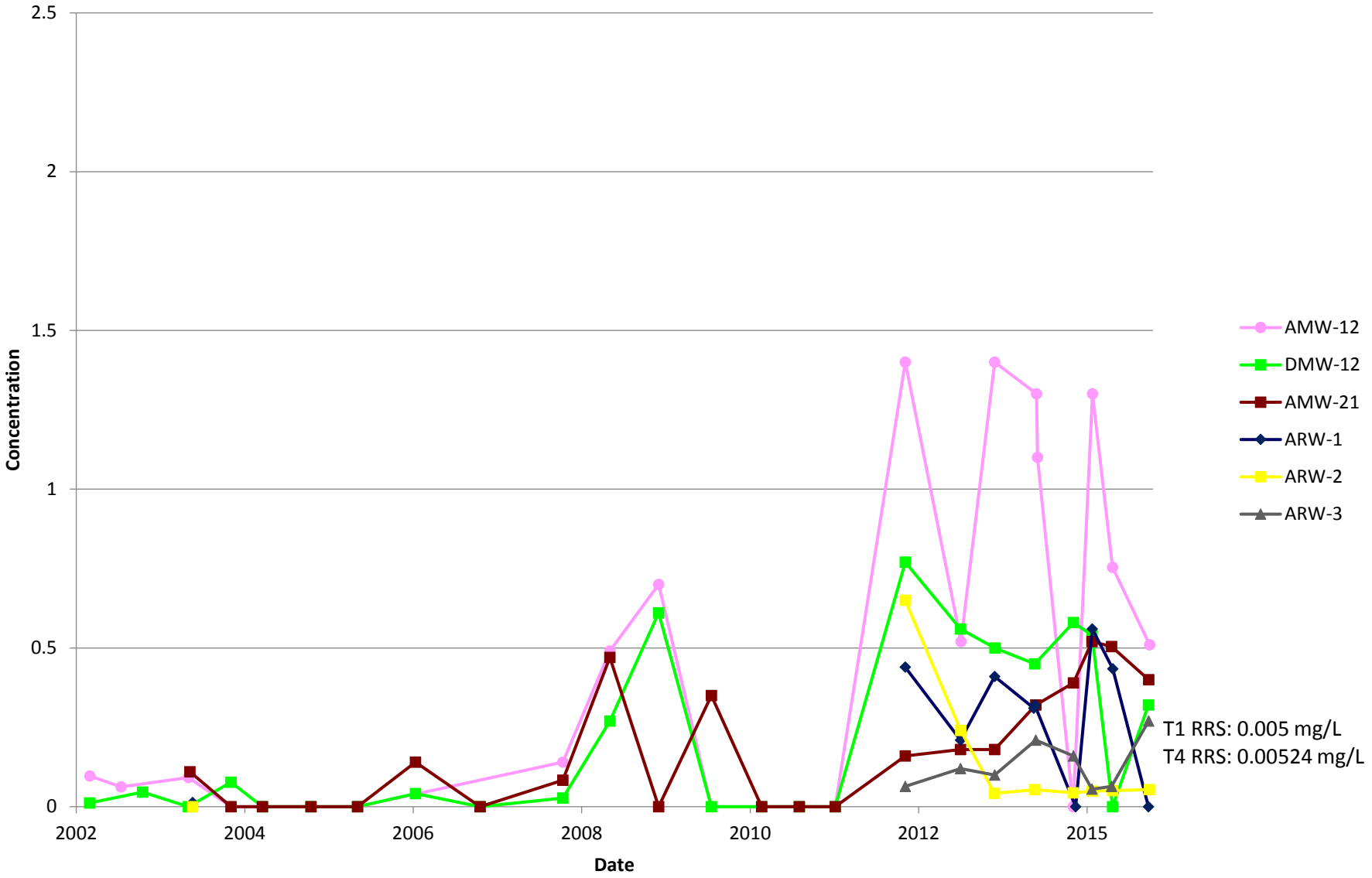


Figure E7A. Surface Water - PCE (mg/L)

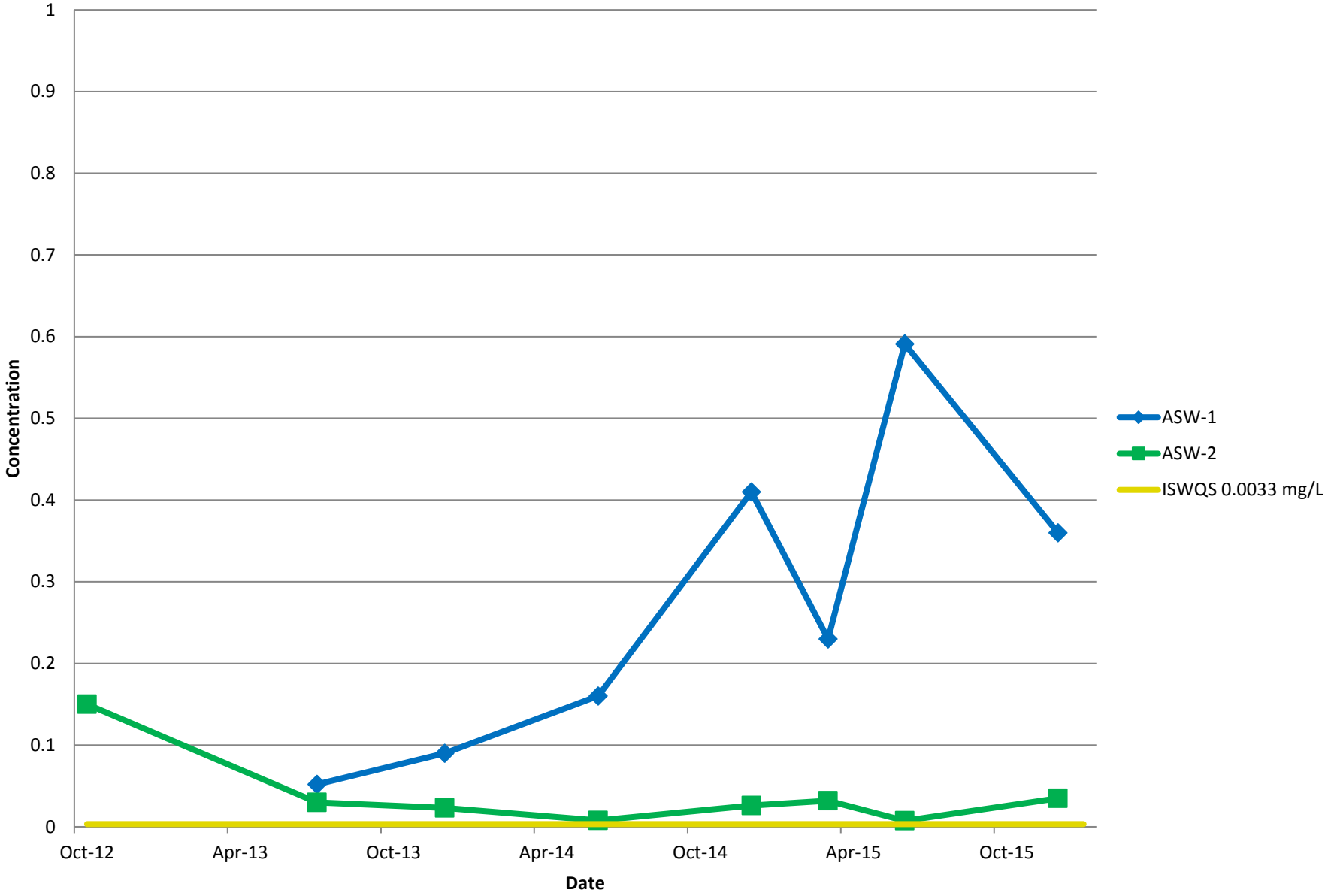


Figure E7B. Surface Water - TCE (mg/L)

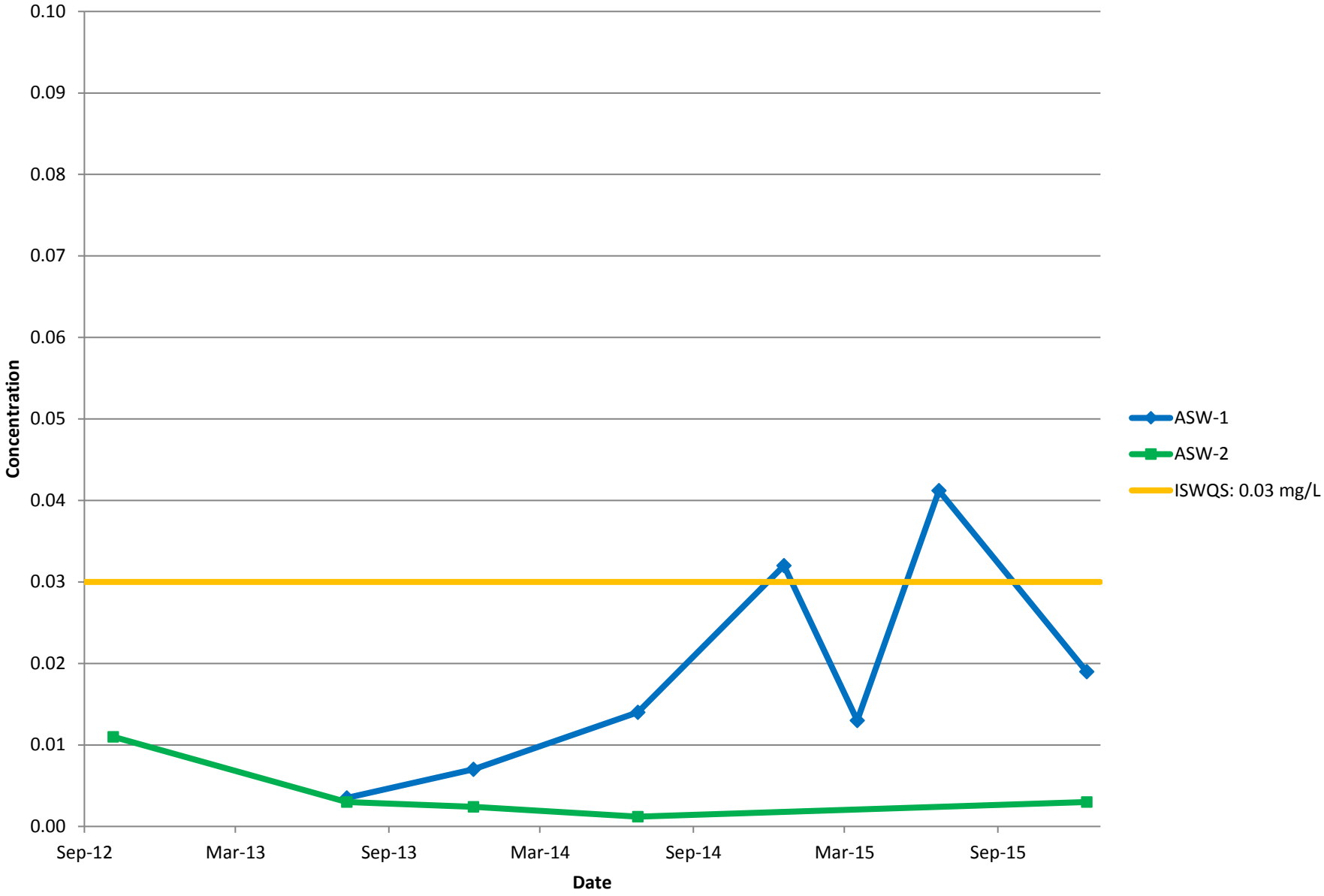


TABLE E1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-TCA mg/L	1,1-DCA mg/L	1,1-DCE mg/L	1,2-DCA mg/L	cis-1,2-DCE mg/L	PCE mg/L	trans-1,2-DCE mg/L	TCE mg/L	Vinyl Chloride mg/L	1,4-dioxane mg/L
DOBBS AREA											
DMW-1	2/22/95	**10**	**0.043**	**1**	--	< 0.01	< 0.005	--	< 0.01	--	--
DMW-1	3/8/99	**5.3**	**1.7**	**2.5**	--	< 0.01	< 0.005	--	< 0.01	--	--
DMW-1	10/4/00	**1.4**	**0.09**	**0.45**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-1	3/14/01	**0.15**	**0.036**	**0.14**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-1	10/9/01	**9**	**0.11**	**2.1**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-1	3/5/02	**0.28**	**0.081**	**0.27**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-1	11/12/02	**1**	**0.15**	**0.48**	--	< 0.005	< 0.005	--	**0.0058**	--	--
DMW-1	6/17/03	**8.2**	**0.022**	**2.2**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-1	1/6/04	**0.1**	< 0.005	**0.033**	--	< 0.005	**0.0059**	--	< 0.005	--	--
DMW-1	6/3/04	**0.32**	< 0.005	**0.12**	--	< 0.005	**0.007**	--	< 0.005	--	--
DMW-1	1/19/05	**0.11**	< 0.005	**0.076**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-1	8/28/05	**6.6**	**0.022**	**3.5**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-1	5/31/06	--	--	--	--	--	--	--	< 0.005	--	--
DMW-1	4/3/07	--	--	--	--	--	--	--	< 0.005	--	--
DMW-1	4/29/08	**1.5**	**0.014**	**1.1**	--	< 0.005	**0.015**	--	< 0.005	--	--
DMW-1	12/9/08	--	--	--	--	--	--	--	< 0.005	--	--
DMW-1	7/28/09	**3.5**	**0.034**	**3.1**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-1	4/5/10	**2.9**	**0.025**	**3.4**	--	< 0.005	**0.028**	--	< 0.005	--	--
DMW-1	11/29/10	**0.15**	< 0.005	**0.45**	--	< 0.005	**0.0068**	--	**0.0068**	--	--
DMW-1	5/27/11	**0.064**	< 0.005	**0.15**	--	< 0.005	**0.0052**	--	< 0.005	--	--
DMW-1	11/14/11	**2.1**	**0.015**	**2.1**	--	< 0.005	< 0.006	--	< 0.005	--	--
DMW-1	8/7/12	**0.48**	**0.024**	**0.69**	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	--
DMW-1	10/9/12	**0.74**	**0.022**	**1.6**	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	--
DMW-1	6/20/13	**0.64**	**0.012**	**0.94**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	--
DMW-1	12/9/13	--	**0.0079**	--	< 0.001	< 0.001	**0.00821**	< 0.001	< 0.001	< 0.001	--
DMW-1	6/17/14	**0.69**	**0.01**	**1.2**	**0.0018**	< 0.001	**0.0022**	< 0.011	< 0.001	< 0.001	--
DMW-1	12/15/14	**0.53**	0.0098	**0.91**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	**0.016**
DMW-1	3/19/15	**0.17**	**0.015**	**0.32**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	**0.0059**
DMW-1	6/23/15*	**0.412**	**0.0101**	**0.765**	**0.0011 J**	< 0.005	**0.0028 J**	< 0.005	< 0.005	< 0.005	**0.0113**
DMW-1	12/15/15*	**0.40**	**0.012**	**0.65**	**0.0019 J**	< 0.005	**0.004 J**	< 0.005	< 0.005	< 0.005	**0.011**
DMW-2	2/22/95	**0.0027**	< 0.005	< 0.005	--	< 0.01	< 0.005	--	< 0.01	--	--
DMW-2	3/8/99	< 0.005	< 0.005	< 0.005	--	< 0.01	< 0.005	--	< 0.01	--	--
DMW-2	10/4/00	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.0092**	--	< 0.005	--	--
DMW-2	3/14/01	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.011**	--	< 0.005	--	--
DMW-2	10/9/01	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.011**	--	< 0.005	--	--
DMW-2	3/5/02	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-2	11/12/02	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-2	6/17/03	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.005**	--	**0.0055**	--	--
DMW-2	1/6/04	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-2	6/3/04	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-2	1/19/05	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-2	8/28/05	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-2	5/31/06	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-2	4/3/07	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-2	4/29/08	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.0071**	--	< 0.005	--	--
DMW-2	12/9/08	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.012**	--	< 0.005	--	--
DMW-2	7/28/09	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.0056**	--	< 0.005	--	--
DMW-2	4/5/10	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-2	11/29/10	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-2	5/27/11	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-2	11/14/11	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-2	10/9/12	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	--
DMW-2	6/20/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0015**	< 0.001	< 0.001	< 0.001	--
DMW-2	12/4/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0015**	< 0.001	< 0.001	< 0.001	--
DMW-2	6/17/14	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.001**	< 0.001	< 0.001	< 0.001	--
DMW-2	12/16/14	< 0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	< 0.005
DMW-2	3/19/15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.016	< 0.005	< 0.005	< 0.002	**0.0081**
DMW-2	6/23/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.003	< 0.001	< 0.001	< 0.001	**0.0069**
DMW-2	12/15/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0065**
DMW-6	10/4/00	**0.5**	**0.022**	**0.065**	--	**0.065**	< 0.005	--	< 0.005	--	--
DMW-6	3/14/01	**0.38**	**0.036**	**0.11**	--	**0.11**	< 0.005	--	< 0.005	--	--
DMW-6	10/9/01	**0.88**	**0.03**	**0.057**	--	**0.057**	**0.03**	--	< 0.005	--	--
DMW-6	3/5/02	**0.39**	**0.026**	**0.1**	--	**0.1**	**0.012**	--	< 0.005	--	--
DMW-6	11/12/02	**0.095**	**0.04**	< 0.005	--	< 0.005	< 0.005	--	**0.27**	--	--
DMW-6	6/17/03	**0.1**	**0.11**	< 0.005	--	< 0.005	< 0.005	--	**0.14**	--	--
DMW-6	1/6/04	**0.089**	**0.11**	< 0.005	--	< 0.005	< 0.005	--	**0.0054**	--	--
DMW-6	6/3/04	**0.33**	**0.018**	**0.071**	--	< 0.005	**0.04**	--	< 0.005	--	--
DMW-6	1/19/05	**0.17**	**0.024**	**0.12**	--	< 0.005	**0.039**	--	< 0.005	--	--
DMW-6	8/28/05	**0.2**	**0.02**	**0.095**	--	< 0.005	**0.058**	--	< 0.005	--	--
DMW-6	5/31/06	**0.21**	**0.021**	**0.1**	--	< 0.005	**0.055**	--	< 0.005	--	--
DMW-6	4/3/07	**0.092**	**0.015**	**0.045**	--	< 0.005	**0.034**	--	< 0.005	--	--
DMW-6	4/29/08	**0.082**	< 0.005	**0.0082**	--	< 0.005	**0.036**	--	< 0.005	--	--
DMW-6	12/9/08	**0.1**	**0.011**	**0.075**	--	< 0.005	**0.028**	--	< 0.005	--	--

TABLE E1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-TCA mg/L	1,1-DCA mg/L	1,1-DCE mg/L	1,2-DCA mg/L	cis-1,2-DCE mg/L	PCE mg/L	trans-1,2-DCE mg/L	TCE mg/L	Vinyl Chloride mg/L	1,4-dioxane mg/L
DMW-6	7/28/09	**0.092**	**0.013**	**0.032**	--	< 0.005	**0.025**	--	< 0.005	--	--
DMW-6	4/5/10	**0.065**	< 0.005	**0.0051**	--	< 0.005	**0.024**	--	< 0.005	--	--
DMW-6	11/29/10	**0.087**	**0.011**	**0.074**	--	**0.0067**	**0.33**	--	**0.0053**	--	--
DMW-6	5/27/11	**0.048**	**0.017**	**0.041**	--	**0.15**	**0.23**	--	**0.12**	--	--
DMW-6	11/14/11	**0.042**	**0.013**	**0.043**	--	**0.052**	**0.19**	--	**0.024**	--	--
DMW-6	10/9/12	**0.049**	**0.0094**	**0.044**	--	**0.04**	**0.2**	< 0.005	**0.028**	< 0.002	--
DMW-6	6/21/13	**0.013**	< 0.005	**0.012**	< 0.001	**0.024**	**0.25**	< 0.001	**0.013**	< 0.001	--
DMW-6	12/3/13	**0.02**	**0.0044**	**0.014**	< 0.001	**0.024**	**0.2**	< 0.001	**0.01**	< 0.001	--
DMW-6	6/18/14	**0.017**	**0.005**	**0.015**	< 0.001	**0.031**	**0.29**	< 0.001	**0.032**	< 0.001	--
DMW-6	12/16/14	< 0.005	**0.0051**	< 0.005	< 0.005	**0.15**	**0.011**	< 0.005	**0.027**	< 0.002	**0.024**
DMW-6	3/19/15	**0.055**	**0.036**	**0.023**	< 0.005	**0.12**	**0.4**	< 0.005	**0.17**	**0.33**	**0.025**
DMW-6	6/23/15	**0.0284**	**0.0145**	**0.0131**	< 0.001	**0.0491**	**0.162**	< 0.001	**0.0822**	**0.0675**	**0.0226**
DMW-6	12/16/15	**0.031**	**0.011**	**0.016**	< 0.001	**0.043**	**0.22**	< 0.001	**0.031**	**0.016**	**0.014**
DMW-7/DRW-1	10/4/00	**120**	**1.1**	**29**	--	< 0.005	< 0.005	--	**0.03**	--	--
DMW-7/DRW-1	3/14/01	**47**	**0.073**	**15**	--	< 0.005	< 0.005	--	**0.016**	--	--
DMW-7/DRW-1	10/9/01	**72**	**4**	**21**	--	< 0.005	< 0.005	--	**0.015**	--	--
DMW-7/DRW-1	3/5/02	**23**	**0.053**	**17**	--	< 0.005	< 0.005	--	**0.01**	--	--
DMW-7/DRW-1	11/12/02	**4.7**	**0.059**	**1.5**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-7/DRW-1	6/17/03	**63**	**2.7**	**21**	--	< 0.25	< 0.26	--	< 0.25	--	--
DMW-7/DRW-1	1/6/04	**30**	**1.8**	**15**	--	< 0.5	< 0.5	--	< 0.5	--	--
DMW-7/DRW-1	6/3/04	**42**	**0.99**	**14**	--	< 0.005	**0.034**	--	**0.0083**	--	--
DMW-7/DRW-1	1/19/05	**29**	< 2.5	**9.8**	--	< 2.5	< 2.5	--	< 2.5	--	--
DMW-7/DRW-1	5/31/06	**21**	**1.4**	**16**	--	< 0.005	**0.039**	--	**0.01**	--	--
DMW-7/DRW-1	4/3/07	**9.2**	**1.4**	**10**	--	< 0.5	< 0.5	--	< 0.5	--	--
DMW-7/DRW-1	4/29/08	**6.5**	**0.94**	**7.4**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-7/DRW-1	12/9/08	**3.3**	**1.3**	**12**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-7/DRW-1	7/28/09	**1.5**	**0.05**	**1.4**	--	< 0.25	< 0.26	--	< 0.005	--	--
DMW-7/DRW-1	4/5/10	**9.1**	**0.92**	**10**	--	< 0.005	< 0.005	--	0.0056	--	--
DMW-7/DRW-1	11/29/10	**1.8**	**0.22**	**4.8**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-7/DRW-1	5/27/11	**9.1**	**0.4**	**2.7**	--	< 0.005	**0.0055**	--	**0.01**	--	--
DMW-7/DRW-1	11/14/11	**8.8**	**1**	**9.4**	--	< 0.017	< 0.038	--	< 0.016	--	--
DMW-7/DRW-1	10/11/12	**19**	**0.15**	**19**	--	< 0.005	**0.016**	< 0.005	**0.015**	**0.0022**	--
DMW-7/DRW-1	6/21/13	**17**	**0.17**	**13**	**0.089**	< 0.001	**0.0017**	< 0.001	**0.012**	**0.0013**	--
DMW-7/DRW-1	12/11/13	**0.89**	**0.013**	**0.93**	**0.0064**	< 0.001	< 0.02	< 0.001	**0.0014**	< 0.001	--
DMW-7/DRW-1	6/18/14	**9**	**0.11**	**11**	**0.065**	< 0.005	< 0.005	< 0.005	**0.0084**	< 0.005	--
DMW-7/DRW-1	12/29/14	**6.1**	**0.047**	**6.6**	**0.034**	< 0.005	< 0.005	< 0.005	**0.006**	< 0.002	**0.011**
DMW-7/DRW-1	3/19/15	**12**	**0.078**	**17**	**0.08**	< 0.005	< 0.005	< 0.005	**0.012**	< 0.002	**0.019**
DMW-7/DRW-1	6/24/15	**9.89**	**0.115**	**15.3**	**0.0718**	< 0.001	< 0.001	< 0.001	**0.0112**	< 0.001	**0.0207**
DMW-7/DRW-1	12/16/15*	**9.8**	**0.083 J**	**12.8**	**0.056 J**	< 0.1	**0.061 J**	< 0.1	< 0.1	< 0.1	**0.019**
DMW-8/DRW-2	10/4/00	**150**	**3.4**	**69**	--	**0.0058**	< 0.005	--	**0.058**	--	--
DMW-8/DRW-2	3/14/01	**120**	**0.67**	**78**	--	**0.0091**	< 0.005	--	**0.054**	--	--
DMW-8/DRW-2	10/9/01	**240**	**2.3**	**99**	--	**0.008**	**0.006**	--	**0.085**	--	--
DMW-8/DRW-2	3/5/02	**91**	**0.29**	**52**	--	< 0.005	< 0.005	--	**0.035**	--	--
DMW-8/DRW-2	11/12/02	**180**	**2.6**	**75**	--	< 0.005	< 0.005	--	**0.092**	--	--
DMW-8/DRW-2	6/17/03	**190**	< 5	**26**	--	< 5	< 5	--	< 5	--	--
DMW-8/DRW-2	1/6/04	**78**	**1.4**	**24**	--	< 0.5	< 0.5	--	< 0.5	--	--
DMW-8/DRW-2	6/3/04	**81**	**0.74**	**16**	--	< 0.005	**0.034**	--	**0.024**	--	--
DMW-8/DRW-2	1/19/05	**190**	< 2.5	**51**	--	< 2.5	< 2.5	--	< 2.5	--	--
DMW-8/DRW-2	5/31/06	**140**	**1.6**	**35**	--	**0.007**	**0.14**	--	**0.052**	--	--
DMW-8/DRW-2	4/3/07	**30**	**1**	**9.4**	--	< 0.5	< 0.5	--	< 0.5	--	--
DMW-8/DRW-2	4/29/08	**120**	**0.15**	**22**	--	< 0.005	**0.022**	--	**0.035**	--	--
DMW-8/DRW-2	12/9/08	**83**	**0.35**	**46**	--	< 0.005	**0.0086**	--	**0.033**	--	--
DMW-8/DRW-2	7/28/09	**26**	**0.71**	**5.7**	--	< 0.25	< 0.25	--	**0.01**	--	--
DMW-8/DRW-2	4/5/10	**41**	**0.43**	**9.6**	--	< 0.005	< 0.005	--	**0.016**	--	--
DMW-8/DRW-2	11/29/10	**16**	**0.87**	**7.6**	--	< 0.05	< 0.05	--	< 0.05	--	--
DMW-8/DRW-2	5/27/11	**21**	**0.79**	**7.6**	--	< 0.005	**0.011**	--	**0.013**	--	--
DMW-8/DRW-2	11/14/11	**15**	**0.5**	**4.3**	--	**0.034**	< 0.077	--	< 0.031	--	--
DMW-8/DRW-2	10/11/12	**25**	**0.39**	**9.5**	--	< 0.005	< 0.005	< 0.005	**0.012**	**0.0037**	--
DMW-8/DRW-2	6/21/13	**8**	**0.68**	**3.2**	**0.012**	**0.023**	**0.016**	**0.0013**	**0.031**	**0.003**	--
DMW-8/DRW-2	12/9/13	**24**	**0.15**	**8.1**	**0.019**	< 0.01	< 0.101	< 0.01	**0.015**	< 0.01	--
DMW-8/DRW-2	6/24/14	**29**	**0.33**	**10**	**0.023**	< 0.01	< 1	< 0.01	**0.012**	< 0.01	--
DMW-9/DRW-3	10/4/00	**150**	**1**	**100**	--	**0.009**	**0.007**	--	**0.098**	--	--
DMW-9/DRW-3	3/14/01	**23**	**0.71**	**13**	--	**0.017**	**0.011**	--	**0.015**	--	--
DMW-9/DRW-3	10/9/01	**280**	**3.2**	**65**	--	< 0.005	< 0.005	--	**0.079**	--	--
DMW-9/DRW-3	3/5/02	**89**	**0.5**	**50**	--	**0.006**	**0.008**	--	**0.036**	--	--
DMW-9/DRW-3	11/12/02	**77**	**0.26**	**77**	--	**0.012**	**0.019**	--	**0.072**	--	--
DMW-9/DRW-3	6/17/03	**110**	< 5	**31**	--	< 5	< 5	--	< 5	--	--
DMW-9/DRW-3	1/6/04	**78**	**1.4**	**24**	--	< 0.5	< 0.5	--	< 0.5	--	--
DMW-9/DRW-3	6/3/04	**81**	**0.78**	**16**	--	< 0.005	**0.007**	--	**0.024**	--	--
DMW-9/DRW-3	1/19/05	**93**	< 2.5	**40**	--	< 2.5	< 2.5	--	< 2.5	--	--
DMW-9/DRW-3	5/31/06	**58**	**1.2**	**17**	--	**0.012**	**0.12**	--	**0.026**	--	--
DMW-9/DRW-3	4/3/07	**28**	**1**	**7.3**	--	< 0.1	< 0.1	--	< 0.1	--	--
DMW-9/DRW-3	4/29/08	**16**	**0.23**	**5.5**	--	< 0.005	**0.02**	--	**0.071**	--	--

TABLE E1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-TCA mg/L	1,1-DCA mg/L	1,1-DCE mg/L	1,2-DCA mg/L	cis-1,2-DCE mg/L	PCE mg/L	trans-1,2-DCE mg/L	TCE mg/L	Vinyl Chloride mg/L	1,4-dioxane mg/L
DMW-9/DRW-3	12/9/08	**14**	**0.56**	**9**	--	< 0.005	< 0.005	--	**0.074**	--	--
DMW-9/DRW-3	7/28/09	**15**	**0.87**	**4.9**	--	< 0.25	< 0.25	--	**0.078**	--	--
DMW-9/DRW-3	4/5/10	**18**	**0.6**	**6.5**	--	< 0.005	**0.007**	--	**0.011**	--	--
DMW-9/DRW-3	11/29/10	**3**	**0.057**	**1.4**	--	**0.0082**	**0.022**	--	**0.015**	--	--
DMW-9/DRW-3	5/27/11	**15**	**0.18**	**7.1**	--	**0.014**	**0.021**	--	**0.029**	--	--
DMW-9/DRW-3	11/14/11	**4**	**0.11**	**2.1**	--	**0.048**	**0.049**	--	**0.051**	--	--
DMW-9/DRW-3	10/11/12	**6.7**	**0.092**	**6.6**	--	**0.024**	**0.018**	< 0.005	**0.035**	**0.0054**	--
DMW-9/DRW-3	6/21/13	**5.5**	**0.4**	**4.3**	**0.016**	**0.054**	**0.0097**	**0.0044**	**0.012**	**0.0063**	--
DMW-9/DRW-3	12/9/13	**0.24**	**0.0049**	**0.13**	< 0.001	**0.0016**	**0.005**	< 0.001	**0.0036**	< 0.001	--
DMW-9/DRW-3	6/18/14	**3.7**	**0.52**	**3.5**	**0.019**	**0.028**	**0.0088**	**0.0023**	**0.023**	**0.0058**	--
DMW-9/DRW-3	12/29/14	**0.75**	**0.054**	**0.77**	< 0.005	0.0064	< 0.005	< 0.005	< 0.005	< 0.002	**0.0063**
DMW-9/DRW-3	3/19/15	**1.8**	**0.11**	**2.7**	**0.011**	**0.041**	**0.0061**	< 0.005	**0.02**	**0.0056**	**0.019**
DMW-9/DRW-3	6/24/15	**4.74**	**0.387**	**5.65**	**0.0171**	**0.0236**	**0.0281**	< 0.001	**0.0158**	**0.0048**	**0.0314**
DMW-9/DRW-3	12/16/15*	**1.3**	**0.044**	**1.6**	**0.0089 J**	**0.022**	< 0.02	< 0.02	< 0.02	< 0.02	**0.017**
DMW-10	3/5/02	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	11/12/02	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	6/17/03	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	1/6/04	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	6/3/04	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	1/19/05	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	8/28/05	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	5/31/06	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	4/3/07	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	4/29/08	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	12/9/08	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.011**	--	< 0.005	--	--
DMW-10	7/28/09	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	4/5/10	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	11/29/10	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	5/27/11	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	11/14/11	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	10/10/12	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	--
DMW-10	6/20/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
DMW-10	12/3/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
DMW-10	6/17/14	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
DMW-11	3/5/02	< 0.005	--	--	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	11/12/02	< 0.005	--	--	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	6/17/03	< 0.005	--	--	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	1/6/04	< 0.005	--	--	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	6/3/04	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	1/19/05	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	8/28/05	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	5/31/06	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	4/3/07	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	4/29/08	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	12/9/08	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	7/28/09	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	4/5/10	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	11/29/10	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	5/27/11	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	11/14/11	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	6/19/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
DMW-11	12/3/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
DMW-11	6/23/14	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
DMW-11	6/23/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
DMW-11	12/11/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
OBG-W1	12/12/13	**1.2**	**0.0082**	**0.47**	**0.002**	< 0.001	< 0.02	< 0.001	< 0.001	< 0.001	--
OBG-W1	6/17/14	**0.11**	**0.0015**	**0.14**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
OBG-W1	12/17/14	**1.2**	**0.0057**	**0.45**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	< 0.005
OBG-W1	3/18/15	**1.1**	**0.0052**	**0.31**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	< 0.005
OBG-W1	6/23/15*	**1.02**	**0.005 J**	**0.331**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.002
OBG-W1	12/11/15*	**0.53**	**0.0029**	**0.20**	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.002
OBG-W2	12/12/13	**0.0013**	< 0.001	< 0.001	< 0.001	**0.0028**	**0.31**	< 0.001	**0.0039**	< 0.001	--
OBG-W2	6/27/14	**0.002**	< 0.001	< 0.001	< 0.001	< 0.001	**0.0076**	< 0.001	< 0.001	< 0.001	--
OBG-W2	6/23/15	**0.0031**	< 0.001	< 0.001	< 0.001	< 0.001	**0.0014**	< 0.001	< 0.001	< 0.001	< 0.002
OBG-W2	12/15/15	**0.0020**	< 0.001	< 0.001	< 0.001	< 0.001	**0.0015**	< 0.001	< 0.001	< 0.001	< 0.002
OBG-W7	12/9/13	**0.35**	**0.0068**	**0.11**	< 0.001	**0.0041**	< 0.01	< 0.001	**0.0092**	< 0.001	--
OBG-W7	6/18/14	**4.2**	**0.1**	**1.8**	**0.0088**	**0.024**	**0.017**	**0.0018**	**0.037**	**0.0039**	--
OBG-W7	12/16/14	**6.2**	**0.099**	**1.8**	**0.0076**	**0.041**	**0.04**	< 0.005	**0.068**	**0.0059**	**0.072**
OBG-W7	3/19/15	**7.1**	**0.16**	**3.7**	**0.02**	**0.039**	**0.035**	< 0.005	**0.063**	**0.0062**	**0.061**
OBG-W7	6/23/15	**4.27**	**0.129**	**3.04**	**0.0126**	**0.0391**	**0.0335**	**0.0031**	**0.0531**	**0.0047**	**0.0597**
OBG-W7	12/16/15*	**2.9**	**0.12**	**2.5**	**0.018 J**	**0.050**	**0.020 J**	< 0.04	**0.027 J**	< 0.04	**0.062**

TABLE E1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-TCA mg/L	1,1-DCA mg/L	1,1-DCE mg/L	1,2-DCA mg/L	cis-1,2-DCE mg/L	PCE mg/L	trans-1,2-DCE mg/L	TCE mg/L	Vinyl Chloride mg/L	1,4-dioxane mg/L
MW-22D	1/15/15	**0.2**	**0.0085**	**0.11**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	< 0.005
MW-22D	3/18/15	**0.29**	**0.011**	**0.14**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	< 0.005
MW-22D	6/22/15*	**0.188**	**0.0108**	**0.0974**	**0.00065 J**	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.002
MW-22D	12/10/15	**0.17**	**0.014**	**0.12**	< 0.001	< 0.001	**0.0034**	< 0.001	< 0.001	< 0.001	< 0.002
MW-24	12/16/15*	**9.5**	**0.63**	**4.7**	**0.016 J**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.0092**
FIRE RELEASE AREA											
AMW-1	10/10/01	< 0.005	< 0.005	< 0.005	--	< 0.005	**26.4**	--	< 0.005	< 0.005	--
AMW-1	3/8/02	< 0.005	< 0.005	< 0.005	--	< 0.005	--	--	**0.0311**	< 0.005	--
AMW-1	8/2/02	< 0.005	< 0.005	< 0.005	--	< 0.005	**59.8**	--	**0.0097**	< 0.005	--
AMW-1	6/18/03	< 0.5	< 0.5	< 0.5	--	< 0.5	**100**	--	< 0.5	< 0.5	--
AMW-1	1/6/04	< 0.005	< 0.005	< 0.005	--	**0.045**	**250**	--	**0.15**	--	--
AMW-1	6/3/04	< 2.5	< 2.5	< 2.5	--	< 2.5	**20**	--	< 2.5	--	--
AMW-1	1/19/05	< 2.5	< 2.5	< 2.5	--	< 2.5	**130**	--	< 2.5	--	--
AMW-1	8/28/05	< 2.5	< 2.5	< 2.5	--	< 2.5	**16**	--	< 2.5	--	--
AMW-1	5/31/06	**0.01**	< 0.005	**0.011**	--	**0.072**	**170**	--	**0.076**	--	--
AMW-1	4/3/07	< 1	< 1	< 1	--	< 1	**170**	--	< 1	--	--
AMW-1	4/29/08	< 0.005	< 0.005	< 0.005	--	**0.062**	**140**	--	**0.056**	--	--
AMW-1	12/9/08	< 0.005	< 0.005	< 0.005	--	**0.34**	**65**	--	**0.21**	--	--
AMW-1	7/28/09	< 0.005	< 0.005	< 0.005	--	**0.0095**	**94**	--	**0.06**	--	--
AMW-1	4/5/10	< 0.047	< 0.15	< 0.047	--	< 0.18	**88**	--	< 0.047	--	--
AMW-1	11/29/10	**0.015**	< 0.005	< 0.005	--	**0.025**	**1.7**	--	0.039	--	--
AMW-1	5/27/11	< 0.051	< 0.04	< 0.12	--	< 0.034	**50**	--	< 0.031	--	--
AMW-1	11/14/11	**0.0076**	< 0.005	< 0.005	--	**0.0095**	**7.6**	--	**0.03**	--	--
AMW-1	10/9/12	**0.013**	< 0.005	< 0.005	--	**0.0095**	**1.5**	< 0.005	**0.025**	< 0.002	--
AMW-1	7/2/13	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	**64**	< 0.25	< 0.25	< 0.25	--
AMW-1	12/4/13	**0.0061**	< 0.001	**0.0024**	< 0.001	**0.0094**	**3.4**	< 0.001	**0.014**	< 0.001	--
AMW-1	6/24/14	< 10	< 10	< 10	< 10	< 10	**89**	< 10	< 10	< 10	--
AMW-1	12/29/14	<0.5	<0.5	<0.5	<0.5	< 0.5	**80**	<0.5	<0.5	<0.2	< 0.005
AMW-1	3/17/15*	< 0.25	< 0.25	< 0.25	< 0.25	**0.12 J**	**150**	< 0.25	< 0.25	< 0.1	< 0.005
AMW-1	6/16/15	< 0.001	< 0.001	< 0.001	< 0.001	**0.0842**	**90.2**	< 0.001	**0.0427**	< 0.001	**0.0031**
AMW-1	12/10/15**	< 0.01	< 0.01	< 0.01	< 0.01	**0.10**	**127**	< 0.01	**0.047**	< 0.01	< 0.002
AMW-2	10/10/01	< 0.005	< 0.005	< 0.005	--	< 0.005	**1.56**	--	< 0.005	< 0.005	--
AMW-2	3/6/02	**0.0477**	< 0.005	< 0.005	--	**0.0131**	**11.3**	--	**0.224**	< 0.005	--
AMW-2	8/2/02	**0.0734**	< 0.005	**0.0132**	--	**0.0189**	**21.5**	--	**0.21**	< 0.005	--
AMW-2	6/18/03	**0.023**	< 0.005	< 0.005	--	**0.023**	**8.7**	--	**0.1**	< 0.005	--
AMW-2	1/6/04	< 0.5	< 0.5	< 0.5	--	< 0.5	**9.5**	--	--	--	--
AMW-2	1/19/05	< 0.005	< 0.005	< 0.005	--	--	< 0.005	--	< 0.005	--	--
AMW-2	8/28/05	< 0.5	< 0.5	< 0.5	--	< 0.005	6.4	--	< 0.5	--	--
AMW-2	5/31/06	--	--	--	--	< 0.5	--	--	--	--	--
AMW-2	4/3/07	< 0.1	< 0.1	< 0.1	--	--	**24**	--	< 0.1	--	--
AMW-2	4/29/08	< 0.005	< 0.005	< 0.005	--	< 0.1	**20**	--	**0.006**	--	--
AMW-2	12/9/08	**0.031**	< 0.005	**0.029**	--	**0.059**	**39**	--	**0.19**	--	--
AMW-2	7/28/09	< 0.005	< 0.005	< 0.005	--	< 0.005	**13**	--	< 0.005	--	--
AMW-2	4/5/10	**0.011**	< 0.005	**0.0051**	--	< 0.005	**4.4**	--	**0.013**	--	--
AMW-2	11/29/10	< 0.25	< 0.25	< 0.25	--	< 0.25	**14**	--	< 0.25	--	--
AMW-2	5/27/11	< 0.051	< 0.04	< 0.12	--	< 0.034	**7.1**	--	< 0.031	--	--
AMW-2	11/14/11	**0.023**	< 0.005	**0.0054**	--	< 0.005	**12**	--	**0.025**	--	--
AMW-2	10/9/12	**0.02**	< 0.005	**0.013**	--	**0.03**	**11**	< 0.005	**0.037**	< 0.002	--
AMW-2	7/2/13	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**2**	< 0.01	< 0.01	< 0.01	--
AMW-2	12/9/13	< 0.1	< 0.001	< 0.1	< 0.001	**0.013**	**8.7**	< 0.001	**0.014**	< 0.001	--
AMW-2	6/24/14	**0.0035**	< 0.001	**0.0012**	< 0.001	**0.018**	**4.4**	< 0.001	**0.011**	< 0.001	--
AMW-2	12/18/14	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**13**	< 0.5	< 0.5	< 0.2	< 0.005
AMW-2	3/17/15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**3.1**	< 0.005	**0.0054**	< 0.002	< 0.005
AMW-2	6/16/15	**0.0013**	< 0.001	< 0.001	< 0.001	**0.0024**	**1.68**	< 0.001	**0.0037**	< 0.001	< 0.002
AMW-2	12/15/15*	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**2.1**	< 0.02	< 0.02	< 0.02	< 0.002
AMW-3	10/10/01	< 0.005	< 0.005	< 0.005	--	< 0.005	**68.5**	--	**0.0138**	< 0.005	--
AMW-3	3/7/02	< 0.005	< 0.005	< 0.005	--	**0.0052**	--	--	**0.0228**	< 0.005	--
AMW-3	8/2/02	--	--	--	--	--	--	--	--	--	--
AMW-3	6/18/03	< 0.005	< 0.005	< 0.005	--	**0.026**	**8.5**	--	**0.34**	< 0.005	--
AMW-3	6/18/03	< 0.005	< 0.005	< 0.005	--	**0.033**	**11**	--	**0.5**	< 0.005	--
AMW-3	1/6/04	< 0.005	< 0.005	< 0.005	--	**0.039**	**6.8**	--	**0.065**	--	--
AMW-3	6/3/04	< 0.25	< 0.25	< 0.25	--	< 0.25	**4.4**	--	< 0.25	--	--
AMW-3	1/19/05	< 0.25	< 0.25	< 0.25	--	< 0.25	**5.3**	--	< 0.25	--	--
AMW-3	8/28/05	< 0.25	< 0.25	< 0.25	--	< 0.25	**11**	--	< 0.25	--	--
AMW-3	5/31/06	< 0.005	< 0.005	< 0.005	--	**0.067**	**7.3**	--	**0.067**	--	--
AMW-3	4/3/07	< 0.05	< 0.05	< 0.05	--	**0.17**	**44**	--	**0.21**	--	--
AMW-3	4/29/08	< 0.005	< 0.05	< 0.005	--	**0.08**	**29**	--	**0.14**	--	--
AMW-3	7/28/09	< 0.005	< 0.005	< 0.005	--	< 0.005	**34**	--	**0.21**	--	--
AMW-3	4/5/10	< 0.047	< 0.15	< 0.047	--	< 0.18	**17**	--	< 0.12	--	--
AMW-3	11/29/10	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.12**	--	< 0.005	--	--
AMW-3	5/27/11	< 0.005	< 0.005	< 0.005	--	**0.2**	**15**	--	**0.13**	--	--

TABLE E1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-TCA mg/L	1,1-DCA mg/L	1,1-DCE mg/L	1,2-DCA mg/L	cis-1,2-DCE mg/L	PCE mg/L	trans-1,2-DCE mg/L	TCE mg/L	Vinyl Chloride mg/L	1,4-dioxane mg/L
AMW-3	11/14/11	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.13**	--	< 0.005	--	--
AMW-3	7/2/13	< 0.05	< 0.05	< 0.05	< 0.05	**0.061**	**12**	< 0.05	**0.056**	< 0.05	--
AMW-3	12/12/13	< 0.001	< 0.001	< 0.001	< 0.001	**0.029**	**1.8**	< 0.001	**0.019**	< 0.001	--
AMW-3	6/26/14	< 0.01	< 0.01	< 0.01	< 0.01	**0.085**	**14**	< 0.01	**0.07**	< 0.01	--
AMW-3	12/19/14	< 0.005	< 0.005	< 0.005	< 0.005	**0.021**	**6.2**	< 0.005	**0.02**	< 0.002	< 0.005
AMW-3	3/18/15*	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	**13**	< 0.25	< 0.25	< 0.1	< 0.005
AMW-3	6/17/15*	< 0.1	< 0.1	< 0.1	< 0.1	**0.0321 J**	**22.9**	< 0.1	< 0.1	< 0.1	< 0.002
AMW-3	12/10/15*	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	**27.2**	< 0.25	< 0.25	< 0.25	< 0.002
AMW-4	10/31/01	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-4	4/25/02	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-4	5/21/02	--	--	--	--	--	--	--	--	--	--
AMW-4	1/6/04	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	6/3/04	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	1/19/05	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	8/28/05	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	5/31/06	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	4/3/07	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	4/29/08	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	12/9/08	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	7/28/09	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	4/5/10	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	11/29/10	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	5/27/11	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	11/14/11	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	10/10/12	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	--
AMW-4	6/20/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
AMW-4	12/3/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
AMW-4	6/23/14	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
AMW-4	6/15/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
AMW-4	12/8/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
AMW-5	11/9/01	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-5	4/25/02	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-5	6/19/03	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-5	1/6/04	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-5	6/3/04	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-5	1/19/05	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-5	8/28/05	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-5	5/31/06	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-5	4/3/07	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-5	4/29/08	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-5	7/28/09	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-5	4/5/10	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.047**	--	< 0.005	--	--
AMW-5	11/29/10	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.28**	--	< 0.005	--	--
AMW-5	5/27/11	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.18**	--	< 0.005	--	--
AMW-5	11/14/11	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.72**	--	< 0.005	--	--
AMW-5	10/10/12	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.43**	< 0.005	< 0.005	< 0.002	--
AMW-5	6/20/13	< 0.001	< 0.001	< 0.001	--	< 0.001	**0.15**	--	< 0.001	--	--
AMW-5	12/3/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.25**	< 0.001	< 0.001	< 0.001	--
AMW-5	6/23/14	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.13**	< 0.001	< 0.001	< 0.001	--
AMW-5	6/16/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.285**	< 0.001	< 0.001	< 0.001	**0.002 J**
AMW-5	12/9/15*	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	**0.48**	< 0.0025	< 0.0025	< 0.0025	**0.0025**
AMW-6	11/9/01	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-6	4/25/02	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-6	6/19/03	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-6	1/6/04	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.0093**	--	< 0.005	--	--
AMW-6	6/3/04	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-6	1/19/05	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-6	8/28/05	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-6	5/31/06	**0.012**	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-6	4/3/07	**0.0094**	< 0.005	< 0.005	--	< 0.005	**0.014**	--	< 0.005	--	--
AMW-6	4/29/08	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.032**	--	< 0.005	--	--
AMW-6	12/9/08	**0.032**	< 0.005	**0.0076**	--	**0.084**	**1.8**	--	**0.023**	--	--
AMW-6	7/28/09	**0.017**	< 0.005	< 0.005	--	< 0.005	**1.7**	--	**0.012**	--	--
AMW-6	4/5/10	**0.046**	< 0.005	**0.016**	--	**0.037**	**2.8**	--	**0.032**	--	--
AMW-6	11/29/10	**0.031**	< 0.005	**0.0094**	--	**0.013**	**1.7**	--	**0.032**	--	--
AMW-6	5/27/11	**0.036**	< 0.005	**0.011**	--	**0.015**	**1.4**	--	**0.019**	--	--
AMW-6	11/14/11	**0.021**	< 0.005	**0.0073**	--	**0.0082**	**1.3**	--	**0.015**	--	--
AMW-6	10/10/12	< 0.023	< 0.005	< 0.012	--	**0.0079**	**1.1**	< 0.005	**0.012**	< 0.002	--
AMW-6	7/2/13	**0.011**	< 0.001	**0.0043**	< 0.001	**0.0039**	**0.6**	< 0.001	**0.0063**	< 0.001	--
AMW-6	12/4/13	**0.0071**	< 0.001	**0.0024**	< 0.001	**0.0025**	**0.5**	< 0.001	**0.005**	< 0.001	--
AMW-6	6/24/14	**0.0072**	< 0.001	**0.0026**	< 0.001	**0.0024**	**0.36**	< 0.001	**0.0042**	< 0.001	--
AMW-6	6/16/15	**0.0113**	< 0.001	**0.0065**	< 0.001	**0.0037**	**0.44**	< 0.001	**0.0071**	< 0.001	< 0.002
AMW-6	12/9/15	**0.0069**	< 0.001	**0.0034**	< 0.001	**0.0024**	**0.35**	< 0.001	**0.0038**	< 0.001	< 0.002

TABLE E1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-TCA mg/L	1,1-DCA mg/L	1,1-DCE mg/L	1,2-DCA mg/L	cis-1,2-DCE mg/L	PCE mg/L	trans-1,2-DCE mg/L	TCE mg/L	Vinyl Chloride mg/L	1,4-dioxane mg/L
AMW-7	11/9/01	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-7	4/25/02	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-7	6/19/03	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-7	1/6/04	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	6/3/04	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	1/19/05	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	8/28/05	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	5/31/06	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	4/3/07	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	4/29/08	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	12/9/08	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	7/28/09	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	4/5/10	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	11/29/10	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	5/27/11	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	11/14/11	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	10/10/12	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	--
AMW-7	6/20/13	**0.0028**	< 0.001	**0.0013**	< 0.001	< 0.001	**0.0033**	< 0.001	< 0.001	< 0.001	--
AMW-7	12/3/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0049**	< 0.001	< 0.001	< 0.001	--
AMW-7	6/23/14	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0088**	< 0.001	< 0.001	< 0.001	--
AMW-7	6/16/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0075**	< 0.001	< 0.001	< 0.001	< 0.002
AMW-7	12/8/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.024**	< 0.001	< 0.001	< 0.001	< 0.002
AMW-8	12/12/01	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-8	3/7/02	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.0069**	--	< 0.005	< 0.005	--
AMW-8	8/2/02	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.0071**	--	< 0.005	< 0.005	--
AMW-8	6/17/03	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-8	7/2/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.15**	< 0.001	< 0.001	< 0.001	--
AMW-8	12/4/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**2.7**	< 0.001	**0.0084**	< 0.001	--
AMW-8	6/19/14	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**2.7**	< 0.001	**0.0061**	< 0.001	--
AMW-8	12/29/14	<0.05	< 0.05	<0.05	<0.05	<0.05	**5.2**	<0.05	<0.05	<0.02	**0.0059**
AMW-8	3/18/15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**7.9**	< 0.005	0.021	< 0.002	< 0.005
AMW-8	6/18/15*	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**9.26**	< 0.05	< 0.05	< 0.05	**0.0066**
AMW-8	12/9/15*	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**13.6**	< 0.1	< 0.1	< 0.1	**0.0049**
AMW-9	12/12/01	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.0965**	--	< 0.005	< 0.005	--
AMW-9	3/7/02	**0.0084**	< 0.005	**0.0116**	--	**0.0636**	**2**	--	**0.0339**	< 0.005	--
AMW-9	8/2/02	**0.0226**	**0.0241**	**0.006**	--	**0.213**	**6.36**	--	**0.126**	< 0.005	--
AMW-9	6/18/03	**0.09**	**0.02**	**0.075**	--	**0.92**	**23**	--	**0.21**	**0.017**	--
AMW-9	1/6/04	**0.054**	**0.028**	**0.041**	--	**0.73**	**19**	--	**0.27**	--	--
AMW-9	6/3/04	< 2.5	< 2.5	< 2.5	--	< 2.5	**14**	--	< 2.5	--	--
AMW-9	1/19/05	< 2.5	< 2.5	< 2.5	--	< 2.5	**39**	--	< 2.5	--	--
AMW-9	8/28/05	**0.005**	< 0.005	< 0.005	--	**0.046**	**2.1**	--	**0.02**	--	--
AMW-9	5/31/06	**0.013**	**0.009**	**0.01**	--	**0.9**	**42**	--	**0.47**	--	--
AMW-9	4/3/07	< 0.1	< 0.1	< 0.1	--	**3.1**	**30**	--	**1.4**	--	--
AMW-9	4/29/08	< 0.005	< 0.005	< 0.005	--	**0.71**	**5.9**	--	**0.34**	--	--
AMW-9	12/9/08	**0.012**	**0.012**	**0.019**	--	**1.7**	**86**	--	**1.3**	--	--
AMW-9	7/28/09	< 0.005	< 0.005	< 0.005	--	< 0.005	**37**	--	**0.63**	--	--
AMW-9	4/5/10	**0.03**	**0.013**	**0.026**	--	**1.7**	**51**	--	**1.2**	--	--
AMW-9	11/29/10	< 2.5	< 2.5	< 2.5	--	< 2.5	**83**	--	< 2.5	--	--
AMW-9	5/27/11	< 0.26	< 0.2	< 0.59	--	**1.7**	**42**	--	**1.3**	--	--
AMW-9	11/14/11	< 0.26	< 0.2	< 0.59	--	--	**70**	--	--	--	--
AMW-9	10/11/12	**0.015**	**0.0095**	**0.019**	--	**3.9**	**59**	**0.016**	**2.9**	**0.02**	--
AMW-9	7/3/13	< 0.25	< 0.25	< 0.25	< 0.25	**5**	**63**	< 0.25	**2.7**	< 0.25	--
AMW-9	12/11/13	< 0.1	< 0.1	< 0.1	< 0.1	**2.6**	**22**	< 0.1	**1.3**	< 0.1	--
AMW-10	12/20/01	< 0.005	< 0.005	< 0.005	--	< 0.005	--	--	< 0.005	< 0.005	--
AMW-10	3/8/02	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.728**	--	< 0.005	< 0.005	--
AMW-10	8/2/02	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.927**	--	< 0.005	< 0.005	--
AMW-10	6/17/03	< 0.005	< 0.005	< 0.005	--	< 0.005	**22**	--	< 0.005	< 0.005	--
AMW-10	1/6/04	< 0.005	< 0.005	< 0.005	--	**0.031**	**28**	--	**0.049**	--	--
AMW-10	6/3/04	< 2.5	< 2.5	< 2.5	--	< 2.5	**52**	--	< 2.5	--	--
AMW-10	1/19/05	< 2.5	< 2.5	< 2.5	--	< 2.5	**35**	--	< 2.5	--	--
AMW-10	8/28/05	< 2.5	< 2.5	< 2.5	--	< 2.5	**46**	--	< 2.5	--	--
AMW-10	5/31/06	< 0.005	< 0.005	< 0.005	--	**0.026**	**53**	--	**0.17**	--	--
AMW-10	4/3/07	< 0.5	< 0.5	< 0.5	--	< 0.5	**49**	--	< 0.5	--	--
AMW-10	4/29/08	< 0.005	< 0.005	< 0.005	--	**0.014**	**15**	--	**0.063**	--	--
AMW-10	12/9/08	< 0.005	< 0.005	< 0.005	--	**0.026**	**55**	--	**0.16**	--	--
AMW-10	7/28/09	< 0.005	< 0.005	< 0.005	--	< 0.005	**26**	--	**0.12**	--	--
AMW-10	4/5/10	< 0.005	< 0.005	< 0.005	--	**0.0081**	**4.8**	--	**0.031**	--	--
AMW-10	11/29/10	< 0.25	< 0.25	< 0.25	--	< 0.25	**32**	--	< 0.25	--	--
AMW-10	5/27/11	< 0.005	< 0.005	< 0.005	--	**0.047**	**4.2**	--	**0.054**	--	--
AMW-10	11/14/11	< 0.026	< 0.02	< 0.059	--	< 0.017	**31**	--	--	--	--
AMW-10	10/11/12	< 0.005	< 0.005	< 0.005	--	**0.021**	**14**	< 0.005	**0.096**	< 0.002	--
AMW-10	7/1/13	< 0.01	< 0.01	< 0.01	< 0.01	**0.01**	**2.5**	< 0.01	**0.027**	< 0.01	--

TABLE E1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-TCA mg/L	1,1-DCA mg/L	1,1-DCE mg/L	1,2-DCA mg/L	cis-1,2-DCE mg/L	PCE mg/L	trans-1,2-DCE mg/L	TCE mg/L	Vinyl Chloride mg/L	1,4-dioxane mg/L
AMW-10	12/5/13	< 0.001	< 0.001	< 0.001	< 0.001	**0.0099**	**4.4**	< 0.001	**0.042**	< 0.001	--
AMW-10	6/24/14	< 0.001	< 0.001	< 0.001	< 0.001	**0.018**	**2.7**	< 0.001	**0.048**	< 0.001	--
AMW-10	12/16/14	< 0.005	< 0.005	< 0.005	< 0.005	**0.014**	**12**	< 0.005	**0.064**	< 0.002	< 0.005
AMW-10	3/18/15*	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	**13**	< 0.25	< 0.25	< 0.1	< 0.005
AMW-10	6/22/15*	< 0.025	< 0.025	< 0.025	< 0.025	**0.0156 J**	**31.8**	< 0.025	**0.0535**	< 0.025	**0.0057**
AMW-10	12/9/15*	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	**22.6**	< 0.25	< 0.25	< 0.25	**0.0041**
AMW-11D	1/21/02	--	--	--	--	--	< 0.005	--	--	--	--
AMW-11D	3/8/02	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.0338**	--	< 0.005	< 0.005	--
AMW-11D	8/2/02	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.0122**	--	< 0.005	< 0.005	--
AMW-11D	6/17/03	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-11D	1/6/04	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-11D	6/3/04	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-11D	1/19/05	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-11D	8/28/05	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-11D	5/31/06	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-11D	4/3/07	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-11D	4/29/08	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-11D	12/9/08	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-11D	7/28/09	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-11D	4/5/10	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-11D	11/29/10	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-11D	5/27/11	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.025**	--	< 0.005	--	--
AMW-11D	11/14/11	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-11D	10/11/12	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	--
AMW-11D	6/20/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0011**	< 0.001	< 0.001	< 0.001	--
AMW-11D	12/5/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
AMW-11D	6/17/14	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.019**	< 0.001	< 0.001	< 0.001	--
AMW-11D	7/3/14	< 0.1	< 0.1	< 0.1	< 0.1	**0.41**	**25**	< 0.1	**0.52**	< 0.1	--
AMW-11D	12/17/14	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.018**	< 0.005	< 0.005	< 0.002	< 0.005
AMW-11D	3/18/15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.022**	< 0.005	< 0.005	< 0.002	< 0.005
AMW-11D	6/22/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.006**	< 0.001	< 0.001	< 0.001	< 0.002
AMW-11D	12/14/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0064**	< 0.001	< 0.001	< 0.001	< 0.002
AMW-12	3/7/02	**0.121**	**0.032**	**0.0562**	--	**0.11**	**3.18**	--	**0.0964**	< 0.005	--
AMW-12	8/2/02	**0.178**	**0.0328**	**0.0996**	--	**0.074**	**4.62**	--	**0.0627**	< 0.005	--
AMW-12	6/18/03	**0.25**	**0.045**	**0.11**	--	**0.094**	**8.7**	--	**0.092**	< 0.005	--
AMW-12	1/6/04	**30**	< 0.5	< 0.5	--	< 0.5	< 0.5	--	< 0.5	--	--
AMW-12	6/3/04	**1.9**	< 0.5	< 0.5	--	< 0.5	**30**	--	< 0.5	--	--
AMW-12	1/19/05	< 0.5	< 0.5	< 0.5	--	< 0.5	**45**	--	< 0.5	--	--
AMW-12	8/28/05	< 2.5	< 2.5	< 2.5	--	< 2.5	**37**	--	< 2.5	--	--
AMW-12	4/29/08	**0.014**	**0.007**	**0.018**	--	**0.24**	**22**	--	**0.14**	--	--
AMW-12	12/9/08	**0.025**	**0.026**	**0.057**	--	**0.67**	**66**	--	**0.49**	--	--
AMW-12	7/28/09	**0.13**	**0.021**	**0.093**	--	**0.0095**	**75**	--	**0.7**	--	--
AMW-12	4/5/10	< 0.047	< 0.15	< 0.047	--	< 0.18	**69**	--	< 0.047	--	--
AMW-12	11/29/10	< 2.5	< 2.5	< 2.5	--	< 2.5	**82**	--	< 2.5	--	--
AMW-12	5/27/11	< 0.26	< 0.2	< 0.59	--	< 0.17	**63**	--	< 0.16	--	--
AMW-12	11/14/11	< 0.26	< 0.2	< 0.59	--	< 0.17	**18**	--	< 0.16	--	--
AMW-12	10/11/12	**0.071**	**0.016**	**0.094**	--	**1.1**	**51**	< 0.005	**1.4**	**0.0066**	--
AMW-12	7/3/13	< 0.1	< 0.1	< 0.1	< 0.1	**0.41**	**25**	< 0.1	**0.52**	< 0.1	--
AMW-12	12/10/13	**0.046**	< 0.01	**0.042**	< 0.01	**0.84**	**37**	< 0.01	**1.4**	< 0.01	--
AMW-12	6/27/14	**0.044**	< 0.02	**0.029**	< 0.02	**0.95**	**31**	**0.037**	**1.3**	< 0.02	--
AMW-12	7/1/14	< 0.25	< 0.25	< 0.25	< 0.25	**1.8**	**32**	< 0.25	**1.1**	< 0.25	--
AMW-12	12/18/14	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**63**	< 2.5	< 2.5	< 1	**0.0065**
AMW-12	3/19/15*	**0.077 J**	< 0.25	< 0.25	< 0.25	**0.79**	**34**	< 0.25	**1.3**	< 0.1	**0.0081**
AMW-12	6/23/15*	**0.531**	**0.0067**	**0.0572**	< 0.005	**0.858**	**27.1**	**0.0048 J**	**0.754**	< 0.005	**0.0093**
AMW-12	12/16/15*	< 0.1	< 0.1	< 0.1	< 0.1	**0.50**	**13.0**	< 0.1	**0.51**	< 0.1	--
AMW-13	3/7/02	**0.0288**	**0.0078**	< 0.005	--	**0.0967**	--	--	**1.8**	< 0.005	--
AMW-13	8/2/02	**0.0254**	**0.0084**	< 0.005	--	**0.175**	**83.2**	--	**2.27**	< 0.005	--
AMW-13	6/19/03	**0.087**	**0.014**	**0.06**	--	--	**37**	--	--	< 0.005	--
AMW-13	1/6/04	**0.058**	**0.007**	**0.029**	--	0.093	**35**	--	**0.19**	--	--
AMW-13	6/3/04	< 2.5	< 2.5	< 2.5	--	< 2.5	**66**	--	< 2.5	--	--
AMW-13	1/19/05	< 2.5	< 2.5	< 2.5	--	< 2.5	**66**	--	< 2.5	--	--
AMW-13	8/28/05	< 2.5	< 2.5	< 2.5	--	**0.34**	**35**	--	**0.3**	--	--
AMW-13	5/31/06	**0.038**	**0.008**	**0.037**	--	**0.61**	**52**	--	**0.42**	--	--
AMW-13	4/3/07	< 0.01	< 0.01	< 0.01	--	**0.35**	**38**	--	**0.26**	--	--
AMW-13	4/29/08	**0.009**	**0.005**	**0.01**	--	**3.2**	**30**	--	**1.4**	--	--
AMW-13	12/9/08	**0.008**	**0.006**	**0.017**	--	**3**	**50**	--	**1.7**	--	--
AMW-13	7/28/09	**0.009**	< 0.005	**0.006**	--	**0.008**	**55**	--	**1.7**	--	--
AMW-13	4/5/10	< 0.047	**0.15**	< 0.15	--	**2.5**	**73**	--	**1.7**	--	--
AMW-13	11/29/10	< 2.5	< 2.5	< 2.5	--	< 2.5	**49**	--	< 0.25	--	--
AMW-13	5/27/11	< 0.26	< 0.2	< 0.59	--	**2.2**	**47**	--	**1.5**	--	--
AMW-13	11/14/11	< 0.51	< 0.4	< 1.2	--	--	**25**	--	--	--	--
AMW-13	10/11/12	< 0.005	< 0.005	**0.0057**	--	**1.7**	**22**	**0.013**	**1.1**	**0.0035**	--
AMW-13	7/1/13	< 0.25	< 0.25	< 0.25	< 0.25	**1.8**	**32**	< 0.25	**1.1**	< 0.25	--

TABLE E1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-TCA mg/L	1,1-DCA mg/L	1,1-DCE mg/L	1,2-DCA mg/L	cis-1,2-DCE mg/L	PCE mg/L	trans-1,2-DCE mg/L	TCE mg/L	Vinyl Chloride mg/L	1,4-dioxane mg/L
AMW-13	12/5/13	**0.0027**	**0.0017**	**0.0018**	< 0.001	**1.7**	**21**	**0.012**	**0.85**	**0.0026**	--
AMW-13	6/26/14	< 0.01	< 0.01	< 0.01	< 0.01	**1.4**	**17**	< 0.01	**0.7**	< 0.01	--
AMW-13	7/1/14	< 0.001	< 0.001	< 0.001	< 0.001	**0.0019**	**0.1**	< 0.001	**0.0016**	< 0.001	--
AMW-13	12/17/14	< 0.005	< 0.005	< 0.005	< 0.005	**0.89**	**28**	0.0067	**0.64**	0.002	< 0.005
AMW-13	3/18/15*	< 0.050	< 0.050	< 0.050	< 0.050	**1.2**	**22**	< 0.050	**0.78**	< 0.020	< 0.005
AMW-13	6/22/15*	< 0.25	< 0.25	< 0.25	< 0.25	**1.31**	**22.8**	< 0.25	**0.738**	< 0.25	< 0.002
AMW-13	12/14/15*	< 0.2	< 0.2	< 0.2	< 0.2	**1.1**	**22.2**	< 0.2	**0.67**	< 0.2	< 0.002
AMW-14	3/6/02	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.884**	--	**0.0133**	< 0.005	--
AMW-14	8/2/02	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.366**	--	< 0.005	< 0.005	--
AMW-14	6/17/03	< 0.005	< 0.005	< 0.005	--	**0.031**	**2**	--	**0.19**	< 0.005	--
AMW-14	1/19/05	< 0.5	< 0.5	< 0.5	--	< 0.5	**9.3**	--	< 0.5	--	--
AMW-14	8/28/05	< 0.5	< 0.5	< 0.5	--	< 0.5	**3.5**	--	< 0.5	--	--
AMW-14	5/31/06	< 0.005	< 0.005	< 0.005	--	**0.17**	**3**	--	**0.039**	--	--
AMW-14	4/3/07	< 0.1	< 0.1	< 0.1	--	< 0.1	**10**	--	< 0.1	--	--
AMW-14	4/29/08	< 0.005	< 0.005	< 0.005	--	**0.029**	**3.7**	--	**0.024**	--	--
AMW-14	12/9/08	< 0.005	< 0.005	< 0.005	--	**0.0056**	**0.43**	--	**0.0063**	--	--
AMW-14	7/28/09	< 0.005	< 0.005	< 0.005	--	< 0.005	**1.1**	--	< 0.005	--	--
AMW-14	4/5/10	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.33**	--	< 0.005	--	--
AMW-14	11/29/10	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.82**	--	< 0.005	--	--
AMW-14	5/27/11	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.26**	--	< 0.005	--	--
AMW-14	11/14/11	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.5**	--	< 0.005	--	--
AMW-14	10/11/12	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.18**	< 0.005	< 0.005	< 0.002	--
AMW-14	7/1/13	< 0.001	< 0.001	< 0.001	< 0.001	**0.0019**	**0.1**	< 0.001	**0.0016**	< 0.001	--
AMW-14	12/4/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.094**	< 0.001	**0.0011**	< 0.001	--
AMW-14	6/19/14	< 0.001	< 0.001	< 0.001	< 0.001	**0.023**	**0.091**	< 0.001	**0.025**	< 0.001	--
AMW-14	7/2/14	< 0.001	< 0.001	< 0.001	< 0.001	**0.0012**	**0.19**	< 0.001	**0.0023**	< 0.001	--
AMW-14	12/17/14	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.15**	< 0.005	**0.011**	< 0.002	< 0.005
AMW-14	3/17/15	< 0.005	< 0.005	< 0.005	< 0.005	**0.034**	**0.67**	< 0.005	**0.026**	< 0.002	< 0.005
AMW-14	6/15/15	< 0.001	< 0.001	< 0.001	< 0.001	**0.103**	**1.51**	< 0.001	**0.0779**	< 0.001	< 0.002
AMW-14	12/14/15*	< 0.0025	< 0.0025	< 0.0025	< 0.0025	**0.034**	**0.29**	< 0.0025	**0.015**	< 0.0025	< 0.002
AMW-15	3/7/02	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.188**	--	< 0.005	< 0.005	--
AMW-15	8/2/02	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.136**	--	< 0.005	< 0.005	--
AMW-15	6/19/03	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.14**	--	< 0.005	< 0.005	--
AMW-15	1/6/04	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.75**	--	**0.092**	--	--
AMW-15	6/3/04	< 0.05	< 0.05	< 0.05	--	< 0.05	**0.63**	--	< 0.05	--	--
AMW-15	1/19/05	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.72**	--	**0.0074**	--	--
AMW-15	8/28/05	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.84**	--	**0.01**	--	--
AMW-15	5/31/06	< 0.005	< 0.005	< 0.005	--	**0.011**	**0.87**	--	**0.0099**	--	--
AMW-15	4/3/07	< 0.05	< 0.05	< 0.05	--	< 0.05	**0.89**	--	< 0.05	--	--
AMW-15	4/29/08	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.38**	--	< 0.005	--	--
AMW-15	12/9/08	< 0.005	< 0.005	< 0.005	--	**0.0061**	**0.66**	--	**0.008**	--	--
AMW-15	7/28/09	< 0.005	< 0.005	< 0.005	--	< 0.005	**1.6**	--	**0.0094**	--	--
AMW-15	4/5/10	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.61**	--	< 0.005	--	--
AMW-15	11/29/10	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.51**	--	**0.0059**	--	--
AMW-15	5/27/11	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.46**	--	**0.0054**	--	--
AMW-15	11/14/11	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.47**	--	**0.0051**	--	--
AMW-15	10/9/12	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.25**	< 0.005	< 0.005	< 0.002	--
AMW-15	7/2/13	< 0.001	< 0.001	< 0.001	< 0.001	**0.0012**	**0.19**	< 0.001	**0.0023**	< 0.001	--
AMW-15	12/4/13	< 0.001	< 0.001	< 0.001	< 0.001	**0.0012**	**0.37**	< 0.001	**0.0033**	< 0.001	--
AMW-15	6/24/14	< 0.001	< 0.001	< 0.001	< 0.001	**0.004**	**0.24**	< 0.001	**0.0046**	< 0.001	--
AMW-15	12/29/15	< 0.005	< 0.005	< 0.005	< 0.005	**0.01**	**0.22**	< 0.005	< 0.005	< 0.002	< 0.005
AMW-15	3/17/15	< 0.005	< 0.005	< 0.005	< 0.005	**0.01**	**0.22**	< 0.005	**0.0058**	< 0.002	< 0.005
AMW-15	6/16/15	< 0.001	< 0.001	< 0.001	< 0.001	**0.0063**	**0.411**	< 0.001	**0.0068**	< 0.001	**0.0031**
AMW-15	12/9/15	< 0.001	< 0.001	< 0.001	< 0.001	**0.026**	**0.20**	< 0.001	**0.013**	< 0.001	< 0.002
AMW-16	3/7/02	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-16	6/19/03	**0.066**	< 0.005	< 0.005	--	< 0.005	**4.7**	--	**0.049**	< 0.005	--
AMW-16	1/19/05	< 0.5	< 0.5	< 0.5	--	< 0.5	**3.9**	--	< 0.5	--	--
AMW-16	8/28/05	**0.053**	< 0.005	< 0.005	--	**0.005**	**3.3**	--	**0.046**	--	--
AMW-16	5/31/06	**0.051**	< 0.005	**0.008**	--	**0.009**	**4**	--	**0.048**	--	--
AMW-16	4/3/07	< 0.1	< 0.1	< 0.1	--	< 0.1	**3.7**	--	< 0.1	--	--
AMW-16	4/29/08	**0.028**	< 0.005	**0.013**	--	**0.026**	**6.7**	--	**0.04**	--	--
AMW-16	12/9/08	**0.031**	**0.024**	**0.024**	--	**0.052**	**19**	--	**0.1**	--	--
AMW-16	7/28/09	**0.033**	< 0.005	**0.016**	--	< 0.005	**16**	--	**0.083**	--	--
AMW-16	4/5/10	**0.043**	< 0.005	**0.022**	--	**0.014**	**6.5**	--	**0.049**	--	--
AMW-16	11/29/10	**0.023**	< 0.005	**0.0095**	--	**0.006**	**3.6**	--	**0.018**	--	--
AMW-16	5/27/11	**0.035**	< 0.005	**0.014**	--	**0.0099**	**2.8**	--	**0.026**	--	--
AMW-16	11/14/11	**0.027**	< 0.005	**0.0095**	--	< 0.005	**2.9**	--	**0.022**	--	--
AMW-16	10/10/12	**0.028**	< 0.005	**0.018**	--	< 0.005	**1.9**	< 0.005	**0.02**	< 0.002	--
AMW-16	7/2/13	**0.018**	< 0.01	< 0.01	< 0.01	< 0.01	**2.7**	< 0.01	**0.019**	< 0.01	--
AMW-16	12/4/13	**0.0094**	< 0.001	**0.0038**	< 0.001	**0.0034**	**2.7**	< 0.001	**0.017**	< 0.001	--
AMW-16	6/24/14	**0.0084**	< 0.001	**0.0039**	< 0.001	**0.004**	**2.2**	< 0.001	**0.013**	< 0.001	--
AMW-16	12/19/14	**0.0065**	< 0.005	< 0.005	< 0.005	< 0.005	**2.2**	< 0.005	**0.013**	< 0.002	< 0.005
AMW-16	3/17/15	**0.0086**	< 0.005	< 0.005	< 0.005	< 0.005	**2.6**	< 0.005	**0.015**	< 0.002	< 0.005

TABLE E1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-TCA mg/L	1,1-DCA mg/L	1,1-DCE mg/L	1,2-DCA mg/L	cis-1,2-DCE mg/L	PCE mg/L	trans-1,2-DCE mg/L	TCE mg/L	Vinyl Chloride mg/L	1,4-dioxane mg/L
AMW-16	6/16/15	**0.0048**	< 0.001	**0.0032**	< 0.001	**0.0032**	**1.31**	< 0.001	**0.0107**	< 0.001	< 0.002
AMW-16	12/10/15*	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**2.3**	< 0.01	**0.011**	< 0.01	< 0.002
AMW-17	3/7/02	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-17	6/17/03	**0.026**	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-17	1/6/04	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-17	6/3/04	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-17	1/19/05	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-17	8/28/05	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-17	5/31/06	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-17	4/3/07	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-17	4/29/08	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-17	12/9/08	**0.04**	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-17	7/28/09	**0.027**	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-17	4/5/10	**0.039**	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-17	11/29/10	**0.1**	< 0.005	< 0.005	--	< 0.005	**0.038**	--	< 0.005	--	--
AMW-17	5/27/11	**0.039**	< 0.005	< 0.005	--	< 0.005	**0.006**	--	< 0.005	--	--
AMW-17	11/14/11	**0.028**	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-17	10/10/12	**0.034**	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	--
AMW-17	6/21/13	**0.01**	< 0.001	**0.0018**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
AMW-17	12/4/13	**0.011**	< 0.001	< 0.001	< 0.001	< 0.001	**0.001**	< 0.001	< 0.001	< 0.001	--
AMW-17	6/17/14	**0.0068**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
AMW-17	6/15/15	**0.0113**	< 0.001	**0.0018**	< 0.001	< 0.001	**0.0083**	< 0.001	< 0.001	< 0.001	< 0.002
AMW-17	12/14/15	**0.028**	< 0.001	**0.0057**	< 0.001	< 0.001	**0.0024**	< 0.001	< 0.001	< 0.001	**0.0034**
AMW-18	4/24/02	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-18	6/17/03	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-18	1/6/04	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-18	6/3/04	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-18	1/19/05	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-18	8/28/05	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-18	5/31/06	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-18	4/3/07	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-18	4/29/08	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-18	12/9/08	--	--	--	--	--	--	--	< 0.005	--	--
AMW-18	7/28/09	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-18	4/5/10	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-18	11/29/10	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-18	5/27/11	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-18	11/14/11	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-18	10/9/12	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	--
AMW-18	6/20/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
AMW-18	12/4/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
AMW-18	6/23/14	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.02**	< 0.001	< 0.001	< 0.001	--
AMW-18	6/15/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0025**	< 0.001	< 0.001	< 0.001	< 0.002
AMW-18	12/9/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0016**	< 0.001	< 0.001	< 0.001	< 0.002
AMW-19	4/24/02	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-19	6/17/03	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-19	1/6/04	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	6/3/04	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	1/19/05	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	8/28/05	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	5/31/06	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	4/3/07	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	4/29/08	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	12/9/08	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	7/28/09	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	4/5/10	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	11/29/10	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	5/27/11	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	11/14/11	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	10/9/12	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	--
AMW-19	6/21/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
AMW-19	12/12/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
AMW-19	6/23/14	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
AMW-19	6/16/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
AMW-19	12/8/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002

TABLE E1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-TCA mg/L	1,1-DCA mg/L	1,1-DCE mg/L	1,2-DCA mg/L	cis-1,2-DCE mg/L	PCE mg/L	trans-1,2-DCE mg/L	TCE mg/L	Vinyl Chloride mg/L	1,4-dioxane mg/L
AMW-20	4/24/02	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-20	6/17/03	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-20	1/6/04	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-20	6/3/04	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-20	1/19/05	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-20	8/28/05	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-20	5/31/06	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-20	4/3/07	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-20	4/29/08	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-20	12/9/08	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.01**	--	< 0.005	--	--
AMW-20	7/28/09	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-20	4/5/10	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-20	11/29/10	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.13**	--	< 0.005	--	--
AMW-20	5/27/11	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.017**	--	< 0.005	--	--
AMW-20	11/14/11	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.038**	--	< 0.005	--	--
AMW-20	10/10/12	--	--	--	--	--	**0.01**	--	< 0.005	--	--
AMW-20	6/20/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
AMW-20	12/5/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0068**	< 0.001	< 0.001	< 0.001	--
AMW-20	6/23/14	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0023**	< 0.001	< 0.001	< 0.001	--
AMW-20	12/18/14	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.013**	< 0.005	< 0.005	< 0.002	< 0.005
AMW-20	3/17/15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.014**	< 0.005	< 0.005	< 0.002	< 0.005
AMW-20	6/17/15	< 0.001	< 0.001	< 0.001	< 0.001	**0.0019**	**0.0272**	< 0.001	< 0.001	< 0.001	< 0.002
AMW-20	12/11/15	< 0.001	< 0.001	< 0.001	< 0.001	**0.0030**	**0.072**	< 0.001	< 0.001	< 0.001	< 0.002
AMW-21	6/25/03	< 0.05	< 0.05	< 0.05	--	**0.064**	**7.1**	--	**0.11**	< 0.05	--
AMW-21	1/6/04	< 0.5	< 0.5	< 0.5	--	< 0.5	**17**	--	< 0.5	--	--
AMW-21	6/3/04	< 2.5	< 2.5	< 2.5	--	< 2.5	**19**	--	< 2.5	--	--
AMW-21	1/19/05	< 2.5	< 2.5	< 2.5	--	< 2.5	**11**	--	< 2.5	--	--
AMW-21	8/28/05	< 2.5	< 2.5	< 2.5	--	< 2.5	**11**	--	< 2.5	--	--
AMW-21	5/31/06	**0.011**	< 0.005	**0.0066**	--	**0.26**	**26**	--	**0.14**	--	--
AMW-21	4/3/07	< 0.5	< 0.5	< 0.5	--	< 0.5	**9.3**	--	< 0.5	--	--
AMW-21	4/29/08	< 0.005	< 0.005	< 0.005	--	**0.21**	**11**	--	**0.083**	--	--
AMW-21	12/9/08	< 0.005	< 0.005	**0.0069**	--	**0.86**	**36**	--	**0.47**	--	--
AMW-21	7/28/09	< 0.005	< 0.005	< 0.005	--	< 0.005	**28**	--	< 0.5	--	--
AMW-21	4/5/10	< 0.005	< 0.005	< 0.005	--	**0.43**	**21**	--	**0.35**	--	--
AMW-21	11/29/10	< 2.5	< 2.5	< 2.5	--	< 2.5	**12**	--	< 2.5	--	--
AMW-21	5/27/11	< 0.26	< 0.2	< 0.59	--	< 0.17	**12**	--	< 0.16	--	--
AMW-21	11/14/11	< 0.051	< 0.04	< 0.12	--	--	**13**	--	--	--	--
AMW-21	10/11/12	< 0.005	< 0.005	< 0.005	--	**0.2**	**7.5**	< 0.005	**0.16**	< 0.002	--
AMW-21	7/1/13	< 0.05	< 0.05	< 0.05	< 0.05	**0.2**	**8.6**	< 0.05	**0.18**	< 0.05	--
AMW-21	12/10/13	< 0.1	< 0.1	< 0.1	< 0.1	**0.22**	**86.001**	< 0.1	**0.18**	< 0.1	--
AMW-21	6/23/14	< 0.01	< 0.01	< 0.01	< 0.01	**0.52**	**15**	< 0.01	**0.32**	< 0.01	--
AMW-21	12/19/14	< 0.005	< 0.005	< 0.005	< 0.005	**0.54**	**20**	< 0.005	**0.39**	< 0.002	< 0.005
AMW-21	3/17/15*	< 0.25	< 0.25	< 0.25	< 0.25	**0.72**	**22**	< 0.25	**0.52**	< 0.1	< 0.005
AMW-21	6/18/15*	< 0.2	< 0.2	< 0.2	< 0.2	**0.808**	**22.1**	< 0.2	**0.504**	< 0.2	< 0.002
AMW-21	12/11/15*	< 0.2	< 0.2	< 0.2	< 0.2	**0.86**	**17.9**	< 0.2	**0.40**	< 0.2	< 0.002
DMW-3	2/22/95	**2.9**	**0.032**	**1.1**	--	< 0.01	**0.002**	--	< 0.01	--	--
DMW-3	3/8/99	**1**	**0.028**	**0.62**	--	< 0.01	< 0.005	--	< 0.01	--	--
DMW-3	10/4/00	**0.92**	**0.027**	**0.75**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-3	3/14/01	**0.47**	**0.029**	**0.26**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-3	10/9/01	**1.4**	**0.03**	**1.1**	--	< 0.005	**1.4**	--	< 0.005	--	--
DMW-3	3/5/02	**0.53**	**0.026**	**0.64**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-3	11/12/02	**0.57**	**0.025**	**0.6**	--	< 0.005	**0.0054**	--	< 0.005	--	--
DMW-3	6/17/03	**0.36**	**0.032**	**0.37**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-3	1/6/04	**0.68**	**0.026**	**0.79**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-3	6/3/04	**0.77**	**0.017**	**0.59**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-3	1/19/05	**0.33**	**0.017**	**0.63**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-3	8/28/05	**0.42**	**0.018**	**0.39**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-3	5/31/06	**0.24**	**0.016**	**0.37**	--	**0.0079**	**0.0073**	--	< 0.005	--	--
DMW-3	4/3/07	**0.16**	**0.014**	**0.23**	--	**0.021**	**0.011**	--	< 0.005	--	--
DMW-3	4/29/08	**0.18**	**0.016**	**0.27**	--	**0.016**	**0.012**	--	< 0.005	--	--
DMW-3	12/9/08	**0.19**	**0.012**	**0.5**	--	**0.01**	**0.012**	--	< 0.005	--	--
DMW-3	7/28/09	**0.19**	**0.017**	**0.28**	--	**0.022**	**0.052**	--	**0.0096**	--	--
DMW-3	4/5/10	**0.18**	**0.012**	**0.31**	--	**0.033**	**0.063**	--	**0.01**	--	--
DMW-3	11/29/10	**0.13**	**0.006**	**0.38**	--	**0.012**	**0.17**	--	**0.0053**	--	--
DMW-3	5/27/11	**0.21**	**0.012**	**0.35**	--	**0.027**	**0.082**	--	**0.0066**	--	--
DMW-3	11/14/11	**0.11**	**0.0067**	**0.19**	--	**0.021**	**0.097**	--	**0.006**	--	--
DMW-3	10/11/12	**0.21**	**0.014**	**0.29**	--	**0.071**	**0.27**	< 0.005	**0.023**	< 0.002	--
DMW-3	7/3/13	**0.12**	**0.013**	**0.22**	< 0.01	**0.13**	**0.58**	< 0.01	**0.17**	< 0.01	--
DMW-3	12/5/13	**0.057**	**0.0065**	**0.078**	< 0.001	**0.094**	**0.31**	**0.0014**	**0.025**	< 0.001	--
DMW-3	6/18/14	**0.12**	**0.013**	**0.21**	< 0.001	**0.23**	**0.69**	**0.0013**	**0.058**	< 0.001	--
DMW-3	6/23/15*	**0.102**	**0.0098**	**0.182**	**0.00063 J**	**0.55**	**2.08**	**0.0048 J**	**0.225**	< 0.005	**0.108**
DMW-3	12/14/15*	**0.13**	< 0.05	**0.17**	< 0.05	**0.69**	**3.2**	< 0.05	**0.19**	< 0.05	**0.11**

TABLE E1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-TCA mg/L	1,1-DCA mg/L	1,1-DCE mg/L	1,2-DCA mg/L	cis-1,2-DCE mg/L	PCE mg/L	trans-1,2-DCE mg/L	TCE mg/L	Vinyl Chloride mg/L	1,4-dioxane mg/L
DMW-5	10/4/00	**0.15**	**0.018**	**0.075**	--	**0.0086**	< 0.005	--	< 0.005	--	--
DMW-5	3/14/01	**0.098**	**0.029**	**0.15**	--	**0.0091**	< 0.005	--	< 0.005	--	--
DMW-5	10/9/01	**0.35**	**0.069**	**0.36**	--	**0.032**	< 0.005	--	< 0.005	--	--
DMW-5	3/5/02	**0.13**	**0.039**	**0.19**	--	**0.022**	< 0.005	--	< 0.005	--	--
DMW-5	11/12/02	**0.16**	**0.044**	**0.18**	--	**0.024**	< 0.005	--	**0.0092**	--	--
DMW-5	6/17/03	**0.085**	**0.031**	**0.13**	--	**0.017**	< 0.005	--	< 0.005	--	--
DMW-5	1/6/04	**0.09**	**0.029**	**0.13**	--	**0.021**	**0.016**	--	< 0.005	--	--
DMW-5	6/3/04	**0.13**	**0.023**	**0.12**	--	**0.016**	< 0.005	--	< 0.005	--	--
DMW-5	1/19/05	**0.051**	**0.02**	**0.1**	--	**0.014**	**0.007**	--	< 0.005	--	--
DMW-5	8/28/05	**0.049**	**0.016**	**0.089**	--	**0.011**	< 0.005	--	< 0.005	--	--
DMW-5	5/31/06	**0.046**	**0.02**	**0.095**	--	**0.019**	**0.011**	--	< 0.005	--	--
DMW-5	4/3/07	**0.037**	**0.023**	**0.13**	--	**0.036**	**0.035**	--	**0.012**	--	--
DMW-5	4/29/08	**0.016**	**0.0086**	**0.036**	--	**0.17**	**0.21**	--	**0.084**	--	--
DMW-5	12/9/08	**0.01**	**0.0084**	**0.051**	--	**0.19**	**0.24**	--	**0.075**	--	--
DMW-5	7/28/09	**0.064**	**0.022**	**0.1**	--	**0.33**	**0.59**	--	**0.25**	--	--
DMW-5	4/5/10	**0.038**	**0.015**	**0.072**	--	**0.26**	**0.82**	--	**0.32**	--	--
DMW-5	11/29/10	**0.026**	**0.014**	**0.082**	--	**0.18**	**0.54**	--	**0.21**	--	--
DMW-5	5/27/11	**0.028**	**0.019**	**0.078**	--	**0.13**	**0.15**	--	**0.083**	--	--
DMW-5	11/14/11	**0.014**	**0.0097**	**0.044**	--	**0.07**	**0.15**	--	**0.065**	--	--
DMW-5	10/11/12	**0.035**	**0.018**	**0.067**	--	**0.25**	**0.69**	**0.022**	**0.48**	< 0.002	--
DMW-5	7/2/13	**0.02**	**0.014**	**0.062**	< 0.01	**0.19**	**0.42**	< 0.01	**0.26**	< 0.01	--
DMW-5	12/5/13	**0.012**	**0.008**	**0.028**	< 0.001	**0.1**	**0.35**	**0.007**	**0.22**	< 0.001	--
DMW-5	6/18/14	**0.016**	**0.01**	**0.044**	< 0.001	**0.22**	**0.6**	**0.0086**	**0.49**	< 0.001	--
DMW-5	6/23/15*	**0.0165**	**0.0052**	**0.0286**	< 0.005	**0.199**	**0.558**	**0.0086**	**0.482**	< 0.005	**0.0053**
DMW-5	12/14/15*	**0.019**	**0.0062**	**0.035**	< 0.005	**0.20**	**0.66**	**0.0074**	**0.56**	< 0.005	**0.0061**
DMW-12	3/5/02	**0.053**	**0.0084**	**0.0085**	--	**0.03**	**2**	--	**0.012**	--	--
DMW-12	11/12/02	**0.14**	**0.016**	**0.029**	--	**0.076**	**11**	--	**0.046**	--	--
DMW-12	6/17/03	< 0.5	< 0.5	< 0.5	--	< 0.5	**14**	--	--	--	--
DMW-12	1/6/04	**0.18**	**0.018**	**0.04**	--	**0.08**	**250**	--	**0.077**	--	--
DMW-12	6/3/04	< 2.5	< 2.5	< 2.5	--	< 2.5	**36**	--	< 2.5	--	--
DMW-12	1/19/05	< 2.5	< 2.5	< 2.5	--	< 2.5	**12**	--	< 2.5	--	--
DMW-12	8/28/05	< 2.5	< 2.5	< 2.5	--	< 2.5	**4.8**	--	< 2.5	--	--
DMW-12	5/31/06	**0.043**	**0.0054**	**0.019**	--	**0.034**	**24**	--	**0.041**	--	--
DMW-12	4/3/07	< 0.1	< 0.1	< 0.1	--	< 0.1	**39**	--	< 0.1	--	--
DMW-12	4/29/08	**0.021**	**0.011**	< 0.005	--	**0.02**	**12**	--	**0.027**	--	--
DMW-12	12/9/08	**0.023**	< 0.005	**0.02**	--	**0.039**	**41**	--	**0.27**	--	--
DMW-12	7/28/09	< 0.005	< 0.005	< 0.005	--	< 0.005	**32**	--	**0.61**	--	--
DMW-12	4/5/10	< 0.047	< 0.047	< 0.047	--	< 0.18	**31**	--	< 0.047	--	--
DMW-12	11/29/10	< 2.5	< 2.5	< 2.5	--	< 2.5	**39**	--	< 2.5	--	--
DMW-12	5/27/11	< 0.26	< 0.2	< 0.59	--	< 0.17	**36**	--	< 0.16	--	--
DMW-12	11/14/11	< 0.51	< 0.4	< 1.2	--	< 0.34	**40**	--	--	--	--
DMW-12	10/11/12	**0.053**	**0.0056**	**0.047**	--	**0.23**	**43**	< 0.005	**0.77**	< 0.002	--
DMW-12	7/1/13	< 0.1	< 0.1	< 0.1	< 0.1	**0.18**	**34**	< 0.1	**0.56**	< 0.1	--
DMW-12	12/11/13	< 0.1	< 0.1	< 0.1	< 0.1	**0.14**	**40**	< 0.1	**0.5**	< 0.1	--
DMW-12	6/19/14	**0.018**	< 0.01	**0.015**	< 0.01	**0.16**	**33**	< 0.01	**0.45**	< 0.01	--
DMW-12	12/19/14	**0.019**	< 0.005	**0.02**	< 0.005	**0.17**	**50**	< 0.005	**0.58**	< 0.002	< 0.005
DMW-12	3/17/15*	< 0.25	< 0.25	< 0.25	< 0.25	**0.19 J**	**48**	< 0.25	**0.54**	< 0.1	< 0.005
DMW-12	6/23/15*	< 0.5	< 0.5	< 0.5	< 0.5	**0.122 J**	**31**	< 0.5	**0.375 J**	< 0.5	**0.0038**
DMW-12	12/10/15*	< 0.25	< 0.25	< 0.25	< 0.25	**0.25 J**	**34.9**	< 0.25	**0.32**	< 0.25	**0.0028**
DMW-13	4/3/07	**0.058**	< 0.005	**0.012**	--	< 0.005	**1.3**	--	**0.022**	--	--
DMW-13	4/29/08	**0.065**	< 0.005	**0.023**	--	**0.018**	**5.4**	--	**0.045**	--	--
DMW-13	12/9/08	**0.04**	< 0.005	**0.021**	--	**0.039**	**13**	--	**0.072**	--	--
DMW-13	7/28/09	**0.042**	< 0.005	< 0.005	--	**0.018**	**5.8**	--	**0.044**	--	--
DMW-13	4/5/10	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.027**	--	< 0.005	--	--
DMW-13	11/29/10	**0.023**	< 0.005	**0.007**	--	< 0.005	**1.5**	--	**0.014**	--	--
DMW-13	5/27/11	**0.033**	< 0.005	**0.0096**	--	< 0.005	**1.3**	--	**0.012**	--	--
DMW-13	11/14/11	**0.02**	< 0.005	**0.0082**	--	< 0.005	**1.1**	--	**0.011**	--	--
DMW-13	10/10/12	**0.025**	< 0.005	**0.012**	--	< 0.005	**0.63**	< 0.005	**0.0088**	< 0.002	--
DMW-13	7/2/13	**0.017**	< 0.001	**0.008**	< 0.001	**0.0019**	**0.75**	< 0.001	**0.0071**	< 0.001	--
DMW-13	12/11/13	**0.012**	< 0.001	**0.0048**	< 0.001	**0.0023**	**0.45**	< 0.001	**0.0069**	< 0.001	--
DMW-13	6/18/14	**0.011**	< 0.001	**0.0054**	< 0.001	**0.0016**	**0.7**	< 0.001	**0.0074**	< 0.001	--
DMW-13	6/17/15	**0.0089**	< 0.001	**0.0053**	< 0.001	**0.0019**	**0.701**	< 0.001	**0.0085**	< 0.001	< 0.002
DMW-13	12/14/15*	< 0.005	< 0.005	**0.0033 J**	< 0.005	< 0.005	**0.94**	< 0.005	**0.0094**	< 0.005	**0.0029**
DMW-14D	4/3/07	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-14D	4/29/08	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-14D	12/9/08	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-14D	7/28/09	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-14D	4/5/10	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-14D	11/29/10	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-14D	5/27/11	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-14D	11/14/11	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-14D	10/9/12	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	--

TABLE E1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-TCA mg/L	1,1-DCA mg/L	1,1-DCE mg/L	1,2-DCA mg/L	cis-1,2-DCE mg/L	PCE mg/L	trans-1,2-DCE mg/L	TCE mg/L	Vinyl Chloride mg/L	1,4-dioxane mg/L
DMW-14D	6/19/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
DMW-14D	12/6/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
DMW-14D	6/17/14	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
DMW-14D	6/15/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
DMW-14D	12/8/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
DMW-15	4/3/07	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-15	4/29/08	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-15	12/9/08	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-15	7/28/09	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-15	4/5/10	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-15	11/29/10	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-15	5/27/11	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-15	11/14/11	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-15	10/9/12	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	--
DMW-15	6/19/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
DMW-15	12/6/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0032**	< 0.001	< 0.001	< 0.001	--
DMW-15	6/17/14	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
DMW-15	6/15/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0016**	< 0.001	< 0.001	< 0.001	< 0.002
DMW-15	12/8/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
ARW-1	7/8/03	**0.026**	< 0.005	**0.005**	--	**0.019**	**0.0025**	--	**0.013**	< 0.005	--
ARW-1	10/11/12	**0.013**	< 0.005	**0.011**	--	**0.16**	**24**	< 0.005	**0.44**	< 0.002	--
ARW-1	7/1/13	< 0.025	< 0.025	< 0.025	< 0.025	**0.11**	**8.2**	< 0.025	**0.21**	< 0.025	--
ARW-1	12/10/13	**0.018**	< 0.01	**0.012**	< 0.01	**0.12**	**23**	< 0.01	**0.41**	< 0.01	--
ARW-1	6/14/14	**0.017**	< 0.01	**0.012**	< 0.01	**0.13**	**21**	< 0.01	**0.31**	< 0.01	--
ARW-1	12/29/14	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**41**	< 0.5	< 0.5	< 0.2	< 0.05
ARW-1	3/18/15*	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	**42**	< 0.25	**0.56**	< 0.1	< 0.005
ARW-1	6/24/15*	< 0.2	< 0.2	< 0.2	< 0.2	**0.205**	**38.2**	< 0.2	**0.434**	< 0.2	**0.0026**
ARW-1	12/10/15*	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	**36.0**	< 0.4	**0.35 J**	< 0.4	**0.0027**
ARW-2	7/8/03	< 5	< 5	< 5	--	< 5	**23**	--	< 5	< 5	--
ARW-2	10/11/12	**0.01**	**0.011**	**0.016**	--	**1.8**	**11**	**0.0057**	**0.65**	< 0.002	--
ARW-2	7/2/13	**0.054**	< 0.05	**0.066**	< 0.05	**0.49**	**6.5**	< 0.05	**0.24**	< 0.05	--
ARW-2	12/9/13	**0.0028**	< 0.001	**0.0029**	< 0.001	**0.065**	**2.1**	< 0.001	**0.042**	< 0.001	--
ARW-2	6/18/14	**0.026**	**0.0028**	**0.024**	< 0.001	**0.089**	**2.1**	**0.0043**	**0.054**	< 0.001	--
ARW-2	12/18/14	**0.019**	< 0.005	**0.018**	< 0.005	**0.073**	**1**	< 0.005	**0.044**	< 0.002	**< 0.005**
ARW-2	3/18/15	**0.03**	< 0.005	**0.017**	< 0.005	**0.13**	**1.6**	< 0.005	**0.049**	< 0.002	**< 0.005**
ARW-2	6/23/15*	**0.0311**	< 0.01	**0.0375**	< 0.01	**0.121**	**1.3**	**0.0062 J**	**0.0508**	< 0.01	**0.0047**
ARW-2	12/15/15*	**0.026**	< 0.01	**0.020**	< 0.01	**0.12**	**1.4**	**0.0059 J**	**0.054**	< 0.01	**0.0027**
ARW-3	10/11/12	< 0.005	< 0.005	< 0.005	--	**0.069**	**4**	< 0.005	**0.064**	< 0.002	--
ARW-3	7/1/13	< 0.05	< 0.05	< 0.05	< 0.05	**0.15**	**7.3**	< 0.05	**0.12**	< 0.05	--
ARW-3	12/10/13	**0.0011**	< 0.001	< 0.001	< 0.001	**0.12**	**5.6**	**0.0011**	**0.1**	< 0.001	--
ARW-3	6/23/14	< 0.01	< 0.01	< 0.01	< 0.01	**0.33**	**9.5**	< 0.01	**0.21**	< 0.01	--
ARW-3	12/19/14	< 0.005	< 0.005	< 0.005	< 0.005	**0.16**	**7.2**	< 0.005	**0.16**	< 0.002	< 0.005
ARW-3	3/17/15	< 0.005	< 0.005	< 0.005	< 0.005	**0.074**	**3**	< 0.005	**0.055**	< 0.002	< 0.005
ARW-3	6/18/15*	< 0.025	< 0.025	< 0.025	< 0.025	**0.0999**	**2.81**	< 0.025	**0.0637**	< 0.025	< 0.002
ARW-3	12/11/15	< 0.001	< 0.001	< 0.001	< 0.001	**0.49**	**11.8**	**0.0014**	**0.27**	**0.0010**	< 0.002
ARW-4	7/21/03	**0.072**	**0.025**	**0.064**	--	**0.33**	**48**	--	**0.25**	< 0.005	--
ARW-4	10/11/12	**0.0077**	< 0.005	< 0.005	--	**2.2**	**56**	**0.013**	**1.6**	**0.0059**	--
ARW-4	7/1/13	< 0.25	< 0.25	< 0.25	< 0.25	**2.5**	**45**	< 0.25	**1.4**	< 0.25	--
ARW-4	12/11/13	< 0.1	< 0.1	< 0.1	< 0.1	**3**	**42**	< 0.1	**1.7**	< 0.1	--
ARW-4	6/24/15*	< 0.4	< 0.4	< 0.4	< 0.4	**2.59**	**22.6**	< 0.4	**0.86**	< 0.4	**0.002**
ARW-4	12/15/15*	< 0.2	< 0.2	< 0.2	< 0.2	**2.3**	**25.2**	< 0.2	**0.96**	< 0.2	**0.0023**
OBG-W3	12/11/13	**0.01**	< 0.001	**0.0025**	< 0.001	**0.0027**	**0.661**	< 0.001	**0.0017**	< 0.001	--
OBG-W3	6/17/14	**0.007**	< 0.001	**0.0017**	< 0.001	**0.0026**	**0.038**	< 0.001	**0.0015**	< 0.001	--
OBG-W3	6/17/15	**0.0068**	< 0.001	**0.0022**	< 0.001	**0.0021**	**0.0424**	< 0.001	**0.0013**	< 0.001	< 0.002
OBG-W3	12/14/15	**0.012**	< 0.001	**0.0038**	< 0.001	**0.0028**	**0.086**	< 0.001	**0.0024**	< 0.001	< 0.002
OBG-W4	12/5/13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
OBG-W4	6/17/14	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
OBG-W4	6/17/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
OBG-W4	12/9/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
OBG-W5	12/6/13	**0.0027**	**0.0027**	**0.0013**	< 0.001	**0.13**	**6.3**	**0.0019**	**0.12**	< 0.001	--
OBG-W5	6/24/14	< 0.01	< 0.01	< 0.01	< 0.01	**0.16**	**6.5**	< 0.01	**0.099**	< 0.01	--
OBG-W5	12/29/14	< 0.05	< 0.05	< 0.05	< 0.05	**0.22**	**7.5**	< 0.05	**0.13**	< 0.02	< 0.005
OBG-W5	3/17/15	< 0.005	< 0.005	< 0.005	< 0.005	**0.18**	**8.7**	< 0.005	**0.13**	< 0.002	< 0.005
OBG-W5	6/15/15	**0.0019**	**0.0016**	**0.0014**	< 0.001	**0.193**	**4.79**	< 0.001	**0.122**	< 0.001	< 0.002
OBG-W5	12/9/15*	< 0.05	< 0.05	< 0.05	< 0.05	**0.14**	**4.2**	< 0.05	**0.072**	< 0.05	< 0.002

TABLE E1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-TCA mg/L	1,1-DCA mg/L	1,1-DCE mg/L	1,2-DCA mg/L	cis-1,2-DCE mg/L	PCE mg/L	trans-1,2-DCE mg/L	TCE mg/L	Vinyl Chloride mg/L	1,4-dioxane mg/L
OBG-W8	1/24/14	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
OBG-W8	6/18/14	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
OBG-W8	6/16/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0023**	< 0.001	< 0.001	< 0.001	< 0.002
OBG-W8	12/15/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0014**	< 0.001	< 0.001	< 0.001	< 0.002
MW-23	1/15/15	**0.034**	< 0.005	**0.04**	< 0.005	**0.22**	**0.54**	< 0.005	**0.34**	< 0.002	**0.068**
MW-23	4/15/15	< 0.005	< 0.005	< 0.005	< 0.005	**0.0091**	**0.033**	< 0.005	**0.02**	< 0.002	< 0.002
MW-23	6/22/15	< 0.001	< 0.001	< 0.001	< 0.001	**0.0015**	**0.0086**	< 0.001	**0.0033**	< 0.001	< 0.002
MW-23	12/11/15 (PDB DUP)	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0013**	< 0.001	< 0.001	< 0.001	--
MW-23	12/15/15	**0.050**	**0.0066**	**0.056**	< 0.001	**0.41**	**1.1**	**0.015**	**0.65**	< 0.001	**0.11**

Notes
mg/L - milligrams per liter
< - less than reporting limit
Bold - Concentration above the laboratory reporting limit
-- no data
* Elevated Detection Limit due to matrix interference
** DUP-2 data
PDB DUP - duplicate sample collected from a passive diffusion bag

TABLE E2: HISTORICAL SURFACE WATER DATA

Constituents (mg/L)		cis-1,2-DCE	PCE	TCE	Vinyl Chloride
ISWQS (mg/L)		NA	0.0033	0.03	0.0024
Sample Location	**Date**				
ASW-1-UPSTREAM	10/05/12	< 0.005	< 0.005	< 0.005	< 0.002
	07/12/13	NA	< 0.001	< 0.001	NA
	12/11/13	0.0016	< 0.001	< 0.001	<0.001
	06/26/14	0.0016	< 0.001	< 0.001	< 0.001
	12/18/14	< 0.005	< 0.005	< 0.005	< 0.002
	03/16/15	< 0.005	< 0.005	< 0.005	< 0.002
	06/22/15	< 0.001	< 0.001	< 0.001	< 0.001
	12/16/15	0.0015	< 0.001	< 0.001	< 0.001
ASW-1	10/05/12	< 0.005	< 0.005	< 0.005	< 0.002
	07/12/13	NA	**0.052**	0.0035	NA
	12/11/13	0.015	**0.09**	0.007	0.0013
	06/26/14	0.033	**0.16**	0.014	0.0039
	12/18/14	0.066	**0.41**	**0.032**	0.006
	03/16/15	0.016	**0.23**	0.013	< 0.002
	6/22/15*	0.0836	**0.591**	**0.0412**	< 0.010
	12/16/15*	0.033	**0.36**	**0.019**	0.0019 J
ASW-2	10/05/12	0.027	**0.15**	0.011	0.0023
	07/12/13	NA	**0.03**	0.003	NA
	12/11/13	0.005	**0.023**	0.0024	<0.001
	06/26/14	0.004	**0.0078**	0.0012	< 0.001
	12/18/14	< 0.005	**0.026**	< 0.005	< 0.005
	03/16/15	< 0.005	**0.032**	< 0.005	< 0.002
	06/22/15	0.0029	**0.0074**	< 0.001	< 0.001
	12/16/15	0.0055	**0.035**	0.003	< 0.001
ASW-BYPASS	10/05/12	< 0.005	< 0.005	< 0.005	< 0.002
	07/12/13	NA	**0.0049**	< 0.001	NA
	12/11/13	< 0.001	0.0024	< 0.001	< 0.001
	06/26/14	< 0.001	< 0.001	< 0.001	< 0.001
	06/22/15	< 0.001	< 0.001	< 0.001	< 0.001
	12/16/15	< 0.001	0.003	< 0.001	< 0.001

Notes:

ISWQS - GA EPD Instream Water Quality Standards (391-3-6)
mg/L - milligrams per liter
NA - not available
Bold - concentration greater than ISWQS
J - estimated concentration
* - elevated detection limits

Prepared by: KAH 2/1/16
Checked by: CDN 2/15/16