Georgia Environmental Protection Division
Land Protection Branch
Response and Remediation Program

2 Martin Luther King Jr. Dr. SE
Suite 1054, East Tower
Atlanta, Georgia 30334

Document Submittal Form

Instructions: Please complete this form and include it with any document submitted to the Response and Remediation Program that is greater than twenty-five pages in length or that contains paper sizes other than 8.5"x11". Your cooperation helps to ensure that documents are filed correctly, completely, and efficiently.

Name of Document: Voluntary Remediation Plan

Date of Document: November 11, 2015

Site Name: Gainesville DOT District Office

Site Number: 10759

Document Submittal Checklist (please check):

- ☑ One paper copy of the document
- ☑ Two compact disks (CDs), each containing an electronic copy of the document as a single, searchable, Portable Document Format (PDF) file
- ☑ The electronic copies are complete, identical to the paper copy, and virus free
- ☑ Any scanned images have a resolution of at least 300 dpi
- ☑ The electronic copies include this completed Document Submittal Form
- ☑ The CDs are labeled at a minimum with the following information:
  - Name of Document: Voluntary Remediation Plan_Gainesville DOT District Office_2015-11
  - Date of Document: November 11, 2015
  - Site Name: Gainvesville DOT District Office
  - Site Number: 10759

I certify that the information I am submitting is, to the best of my knowledge and belief, true, accurate, and complete.	for EPD use (leave blank)
Signature: William J Wagner Jr. Name (printed): William J Wagner Jr. Date: 11-15-15 Phone: 770-919-0969 Email: wwagner@smeinc.com	

Voluntary Investigation and Remediation Plan Application Form and Checklist

VRP APPLICANT INFORMATION					
COMPANY NAME	Georgia Department of Transportation				
CONTACT PERSON/TITLE	Jim Clute, State Facilities Manager				
ADDRESS	One Georgia Center, 600 West Peachtree Street, N.W. 7th Floor, Atlanta, Georgia 30308				
PHONE	404-631-1253	FAX	404-631-1944	E-MAIL	jclute@dot.ga.gov

GEORGIA CERTIFIED PROFESSIONAL GEOLOGIST OR PROFESSIONAL ENGINEER OVERSEEING CLEANUP					
NAME	James Frere			GA PE/PG NUMBER	754
COMPANY	S&ME, Inc.				
ADDRESS	3380 Town Point Dr., Suite 140, Kennesaw, Georgia 30144				
PHONE	770-919-0969	FAX	770-919-2360	E-MAIL	jfrere@smeinc.com

APPLICANT'S CERTIFICATION

In order to be considered a qualifying property for the VRP:

(1) The property must have a release of regulated substances into the environment;
(2) The property shall not be:
- (A) Listed on the federal National Priorities List pursuant to the federal Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. Section 9601.
- (B) Currently undergoing response activities required by an order of the regional administrator of the federal Environmental Protection Agency; or
- (C) A facility required to have a permit under Code Section 12-8-66.

(3) Qualifying the property under this part would not violate the terms and conditions under which the division operates and administers remedial programs by delegation or similar authorization from the United States Environmental Protection Agency.
(4) Any lien filed under subsection (e) of Code Section 12-8-96 or subsection (b) of Code Section 12-13-12 against the property shall be satisfied or settled and released by the director pursuant to Code Section 12-8-94 or Code Section 12-13-6.

In order to be considered a participant under the VRP:
(1) The participant must be the property owner of the voluntary remediation property or have express permission to enter another's property to perform corrective action.
(2) The participant must not be in violation of any order, judgment, statute, rule, or regulation subject to the enforcement authority of the director.

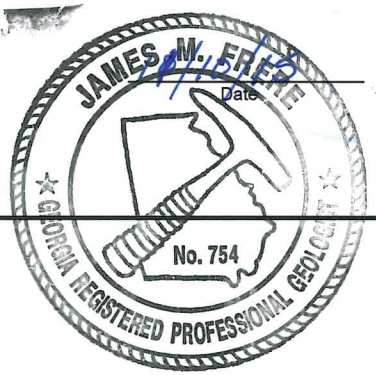
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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.

I also certify that this property is eligible for the Voluntary Remediation Program (VRP) as defined in Code Section 12-8-105 and I am eligible as a participant as defined in Code Section 12-8-106.

APPLICANT'S SIGNATURE	J. Clute, State Facilities Manager		
APPLICANT'S NAME/TITLE (PRINT)	**Jim Clute, State Facilities Manager**	DATE	**November 10, 2015**

QUALIFYING PROPERTY INFORMATION (For additional qualifying properties, please refer to the last page of application form)			
HAZARDOUS SITE INVENTORY INFORMATION (if applicable)			
HSI Number	10759	Date HSI Site listed	April 2002
HSI Facility Name	GDOT - Gainesville	NAICS CODE	
PROPERTY INFORMATION			
TAX PARCEL ID	15023 000017	PROPERTY SIZE (ACRES)	35.789
PROPERTY ADDRESS	2505 Athens Highway		
CITY	Gainesville	COUNTY	Hall
STATE	Georgia	ZIPCODE	30507
LATITUDE (decimal format)	34.260119°	LONGITUDE (decimal format)	-83.765030°
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)	Georgia Department of Transportation	PHONE #	404-608-4735
MAILING ADDRESS	15 Kennedy Drive		
CITY	Forest Park	STATE/ZIPCODE	Georgia 30297

ITEM #	DESCRIPTION OF REQUIREMENT	Location in VRP (i.e. pg., Table #, Figure #, etc.)	For EPD Comment Only (Leave Blank)
1.	**$5,000 APPLICATION FEE** IN THE FORM OF A CHECK PAYABLE TO THE GEORGIA DEPARTMENT OF NATURAL RESOURCES. (PLEASE LIST CHECK DATE AND CHECK NUMBER IN COLUMN TITLED "LOCATION IN VRP." PLEASE DO NOT INCLUDE A SCANNED COPY OF CHECK IN ELECTRONIC COPY OF APPLICATION.)		
2.	**WARRANTY DEED(S)** FOR QUALIFYING PROPERTY.	**Appendix I**	
3.	**TAX PLAT** OR OTHER FIGURE INCLUDING QUALIFYING PROPERTY BOUNDARIES, ABUTTING PROPERTIES, AND TAX PARCEL IDENTIFICATION NUMBER(S).	**Figure 6**	
4.	**ONE (1) PAPER COPY AND TWO (2) COMPACT DISC (CD) COPIES** OF THE VOLUNTARY REMEDIATION PLAN IN A SEARCHABLE PORTABLE DOCUMENT FORMAT (PDF).		
5.	The VRP participant's initial plan and application must include, using all reasonably available current information to the extent known at the time of application, a graphic three-dimensional preliminary conceptual site model (CSM) including a preliminary remediation plan with a table of delineation standards, brief supporting text, charts, and figures (no more than 10 pages, total) that illustrates the site's surface and subsurface setting, the known or suspected source(s) of contamination, how contamination might move within the environment, the potential human health and ecological receptors, and the complete or incomplete exposure pathways that may exist at the site; the preliminary CSM must be updated as the investigation and remediation progresses and an up-to-date CSM must be included in each semi-annual status report submitted to the director by the participant; a **PROJECTED MILESTONE SCHEDULE** for investigation and remediation of the site, and after enrollment as a participant, must update the schedule in each semi-annual status report to the director describing implementation of the plan	**Sec. 4.3, page 8**	

	during the preceding period. A Gantt chart format is preferred for the milestone schedule. The following four (4) generic milestones are required in all initial plans with the results reported in the participant's next applicable semi-annual reports to the director. The director may extend the time for or waive these or other milestones in the participant's plan where the director determines, based on a showing by the participant, that a longer time period is reasonably necessary:		
5.a.	Within the first 12 months after enrollment, the participant must complete horizontal delineation of the release and associated constituents of concern on property where access is available at the time of enrollment;		
5.b.	Within the first 24 months after enrollment, the participant must complete horizontal delineation of the release and associated constituents of concern extending onto property for which access was not available at the time of enrollment;		
5.c.	Within 30 months after enrollment, the participant must update the site CSM to include vertical delineation, finalize the remediation plan and provide a preliminary cost estimate for implementation of remediation and associated continuing actions; and		
5.d.	Within 60 months after enrollment, the participant must submit the compliance status report required under the VRP, including the requisite certifications.		
6.	**SIGNED AND SEALED PE/PG CERTIFICATION** AND SUPPORTING DOCUMENTATION: "I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances. Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." James M Frere 754 Printed Name and GA PE/PG Number James M Frere Signature and Stamp 7/15/15 Date 		

Voluntary Remediation Plan

Georgia Department of Transportation
2505 Athens Highway
Gainesville, Hall County, Georgia
HSI Site No. 10759
S&ME Project No. 4468-14-073

Prepared for:
Georgia Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Dr., SE Suite 1054 East
Atlanta, Georgia 30334

Prepared by:
S&ME, Inc.
3380 Town Point Dr, Ste 140
Kennesaw, GA 30144

November 11, 2015

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November 11, 2015

Georgia Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Dr., SE
Suite 1054 East
Atlanta, Georgia 30334

Attention: Mr. Jason Metzger

Reference: **Voluntary Remediation Plan**
Gainesville DOT District Office
2505 Athens Highway
Gainesville, Hall County, Georgia
HSI No. 10759
S&ME Project No. 4468-14-073

Dear Mr. Metzger:

S&ME, Inc. (S&ME) is pleased to provide this Voluntary Remediation Plan on behalf of Georgia Department of Transportation (GDOT) Office of Materials and Testing for the above-referenced site. One paper copy and two (2) electronic copies of this report are provided in Portable Document Format (PDF) for your use.

Should you have any questions or concerns regarding this report, please contact any of the undersigned at (770) 919-0969.

Sincerely,

S&ME, Inc.

William J. Wagner, Jr., P.E.
Project Engineer

James M. Frere, P.G.
Senior Project Geologist

Peter Fleury, Jr.
Senior Project Manager/Senior Reviewer

CERTIFICATION OF COMPLIANCE WITH RISK REDUCTION STANDARDS

I certify under penalty of law that this report and all attachments were prepared under my direction in accordance with a system designed to ensure 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.

Based on my review of the findings of this report with respect to the Risk Reduction Standards of the Rules of Hazardous Site Response, Rule 391-3-19-07, I have determined the property currently owned by Georgia Department of Transportation located at mailing address 2505 Athens Highway, Gainesville, Georgia is currently in compliance with the Type 1 Risk Reduction Standards for soil. The property is not in compliance with Risk Reduction Standards for groundwater.

J. Chet, State Facilities Mgr.

Georgia Department of Transportation

11/10/2015

Date

PROFESSIONAL SEAL

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

Signed: James M. Frere

James M. Frere, P.G.
Licensed Professional Geologist
State of Georgia No. 754

Date: 11/10/15

1.0 Introduction

1.1 Overview

S&ME has prepared this Voluntary Remediation Plan (VRP) for the Georgia Department of Transportation (GDOT) District Office located at 2505 Athens Highway in Gainesville, Hall County, Georgia ("subject property and or site") **(Figure 1)**. The subject property is currently regulated under the Georgia Environmental Protection Division (EPD) Hazardous Site Response Act (HSRA) as a listed property, Hazardous Site Inventory (HSI) No. 10759. The VRP is intended for review by the EPD under the Voluntary Remediation Program Act (Act). This VRP is submitted with the intention of moving the Site from HSRA into the Georgia Voluntary Remediation Program (the Program). Compliance activities are currently being conducted under HSRA.

1.2 Qualifying Applicant and Property

The subject property is not listed on the federal National Priorities List; is not undergoing response activities required by the United States Environmental Protection Division (EPA); is not a permitted facility under the Resource Conversation Recovery Act (RCRA); and does not have any liens filed against the property pursuant to OCGA 12-8-96(e) or 12-13-12(b).

2.0 Current Environmental Information

2.1 Conceptual Site Model

2.1.1 Site History

GDOT operated an on-site asphalt quality testing laboratory from 1964 until 1987 and utilized 1, 1, 1-TCA as a solvent. From 1964 until 1972, spent 1, 1, 1-TCA was disposed of by pouring it on the ground surface about 25 feet behind the lab. According to GDOT, approximately eight to ten gallons per day of 1, 1, 1-TCA was used in the asphalt testing process on days testing was performed. The total volume used or disposed of on-site is unknown.

The on-site 1, 1, 1-TCA disposal practice was stopped in 1972 when a solvent recovery still was installed to recycle the 1, 1, 1-TCA. However, from 1972 to 1981 about 15 gallons of still bottom residue was poured on the ground surface at the same location as the 1, 1, 1-TCA. Still bottom residue consisted of approximately 93 percent asphalt and seven percent 1, 1, 1-TCA.

From 1981 until approximately 1986, still bottom residue was accumulated on-site. In 1986, accumulated still bottom residue was shipped off-site for disposal by a waste management contractor. The lab stopped using 1, 1, 1-TCA completely in 1987 when it was replaced by citrus-based solvents. Citrus-based solvents were replaced by ignition ovens in 1996, a process of asphalt testing with no chemical use.

GDOT submitted a HSRA Release Notification for the subject property in April 2002. Subsequently the EPD placed the subject property on the HSI due to the confirmed release of 1, 1, 1-TCA in groundwater exceeding the reportable quantity.

2.1.2 Site Description

The site is located at 2505 Athens Highway which is approximately 8 miles southeast of the City of Gainesville. More specifically, the site is located east of the intersection of Athens Highway (U.S. Highway 129) and Gillsville Highway (State Route 323) (**Figures 1 and 2**). The site consists of approximately 36 acres and several GDOT operations are located at the District Office complex. The GDOT Office of Materials and Testing operates a construction materials testing laboratory at the District Office complex where, in the past, 1, 1, 1-TCA was used to evaluate asphalt quality. The lab is located in the northwest corner of the property (**Figure 2**) and the property has a chain-link fence around the perimeter.

The site is owned by GDOT and has a tax parcel identification number of 15023 000017. A copy of the tax plat is included as **Figure 3** and a copy of the warranty deed is included in **Appendix I**.

The site is bounded by Gillsville Highway (Hwy 323) to the north, beyond which are residential properties; residential and a GDOT property to the east; residential property to the south, and Athens Highway (Hwy 129) to the west, beyond which are residential properties.

2.1.3 Topographic Conditions and Surface Water

The site is located on a ridge and topography generally slopes downward toward the north, northeast, and east. The site is located at an elevation of approximately 1,150 feet above mean sea level (msl).

The nearest surface water body is Pond Fork located approximately 1,500 feet down gradient and to the east-southeast of the source area (northwest portion of the site). In addition, there are unnamed streams located approximately 1,600 feet cross gradient to the north and 2,200 feet up gradient to the west of the site **(Figure 1**).

2.1.4 Regional and Site Geologic Conditions

The site is located in the Piedmont Physiographic Province, an extensive area beginning in east-central Alabama and running northeasterly (sub-parallel to the Atlantic Coastline) to northeastern New Jersey. The Piedmont Physiographic Province is bounded to the northwest by the Blue Ridge and Ridge and Valley Physiographic Provinces; and to the southeast by the Coastal Plains Physiographic Province. The Piedmont is characterized by rolling topography as the result of prominent hills and streams, generally in the northern portions of the Province changing to lower (topographically) undulating hills to the south and east.

More specifically, the site is located in the Gainesville Ridges District. This district is characterized by a series of northeast-trending, low, linear, parallel ridges separated by narrow valleys. The ridges are composed of quartzite and gneiss, while the valleys are underlain by phylionite and schist. The streams are strongly controlled by the ridges in this district and exhibit a good example of rectangular drainage.

The Piedmont is a geologically complex area underlain by ancient igneous and metamorphic rocks. Based on our soil boring logs, the subject site is covered by sandy silt to silty sand regolith with weathered saprolitic soils overlaying partially weathered to competent bedrock. The bedrock underlying the site is mapped as muscovite rich schist. Bedrock at this site has been encountered from 30 feet below ground surface (bgs) to 50 feet bgs.

2.1.5 Regional and Site Hydrogeologic Conditions

The shallow aquifer is characterized by the residuum overlying the schist bedrock (deep aquifer) and the deep aquifer is characterized as the schist bedrock. The depth to the water table in the shallow aquifer ranges from approximately 20 feet below ground surface on the down gradient side of the site to over 40 feet bgs on the up gradient, or southern side of the site. The depth to groundwater in the bedrock wells has similar ranges. Typically the deep aquifer bedrock monitoring wells are screened approximately 10 to 25 feet deeper than an adjacent shallow aquifer monitoring well. Historical groundwater elevations are summarized in **Table 1**.

Groundwater flow within the Piedmont physiographic province typically follows the contour of bedrock. The groundwater flow direction at the site is generally to the northeast. The groundwater elevations ranged from 1,024.48 feet msl to 1,064.89 msl in October 2014.

Hydrogeologic testing conducted and discussed in the November 2006 Compliance Status Report (CSR) prepared by aquaFusion, Inc. indicated an average hydraulic conductivity of 0.5699 feet per day (ft/day) in overburden areas and 0.1336 ft/day in bedrock areas. The average groundwater velocity was estimated to be 38 ft/year. The horizontal or lateral gradient for the shallow aquifer, based on the October 2014 data, is approximately 0.06. The lateral gradient in the bedrock aquifer is approximately 0.08.

The vertical groundwater gradient in the shallow aquifer is downward on the south half of the site and ranges from approximately 0.14 to 0.02 using the October 2014 groundwater data. The vertical groundwater gradient in the shallow aquifer is upward on the down gradient or north half of the site at 0.32 using the October 2014 groundwater data from wells MW-3D and MW-8.

The conceptual site model (CSM), shown on **Figure 4**, was prepared to illustrate the hydrogeologic conditions as well as identify the source area adjacent to the laboratory. The source area was within the former swale area immediately west of the laboratory. Potentiometric contours show that the groundwater flows to the east and parallel to Gillsville Highway.

The groundwater monitoring wells, as well as the historical soil boring locations, are presented on **Figure 5**. Potentiometric Surface Maps for the January 2012 and October 2014 gauging events are included as **Figure 6A** (Shallow Aquifer) and **Figure 6B** (Deep Aquifer) and **Figure 7A** (Shallow Aquifer) and **Figure 7B** (Deep Aquifer), respectively.

2.2 Contaminant Distribution

The suspected source area is located in an area directly behind the asphalt testing lab (northwest portion of the site). The constituents of concern (COCs) detected at the site have been chlorinated volatile organic compounds (VOCs) related to the release of 1, 1, 1-TCA.

2.2.1 Soils

The historical soil sample locations are presented on **Figure 8** and the laboratory analytical results are presented in **Table 2**. The date and the company collecting the samples are provided on this table. The majority of the soil sampling was presented to the EPD in the November 2006 CSR. The CSR summarized soil samples collected by GDOT in 1988, Earth Tech, Inc. in 2001, and by aquaFusion in 2006. Between 1988 and 2006, 40 soil samples were collected at the site. Of those samples, only one (Boring G6 at 0' –

0.5') detected COCs (1, 1, 1-TCA) above a Type 1 Risk Reduction Standard (RRS). The CSR indicated that laboratory data reports and boring logs are not available for the samples collected by GDOT in 1988.

During CSR soil sampling activities, aquaFusion, Inc. collected several samples from Boring SB-2, which was installed in the approximate location of Boring G6. Three samples were analyzed from Boring SB-2 (10' – 12', 20' – 22', and 38' – 40') since the ground elevation had changed in this location since 1988. COCs, including 1, 1, 1-TCA, were not detected above their respective Type 1 RRSs in the soil samples. The CSR certified that the site was in compliance with Type 1 RRSs for soil. Additional soil sampling performed by S&ME in 2009 did not detect COCs above the Type 1 RRSs.

Based upon the historic soil sampling data presented in the CSR and S&ME's subsequent soil sampling, it is S&ME's opinion that the site meets Type 1 RRSs for soil.

2.2.2 Groundwater

Groundwater monitoring has occurred at the facility since 1998 and includes both the shallow residuum and deep bedrock aquifers. In 1998, the GA DOT conducted groundwater sampling in two residuum monitoring wells and analyzed the samples for 1, 1, 1-TCA. A maximum concentration of 1, 1, 1-TCA was observed at 761 µg/L. In 2001, EarthTech installed three monitoring wells, one double cased bedrock well (MW-1) and two shallow residuum monitoring wells (MW-2 and MW-3) and performed groundwater sampling in all three wells. The samples were analyzed for EPA method 8260B volatile organic compounds (VOCs). Several VOCs including 1, 1, 1-TCA, exceeded the Type 1 Risk Reduction Standards (RRS) in all three monitoring wells.

A comprehensive site investigation was conducted in 2006 by aquaFusion, Inc. that included the installation and sampling of seven new residuum monitoring wells (MW-4 – MW-10) and four new double-cased bedrock wells (MW-1D, MW-2D, MW-3D and MW-10D). Groundwater samples were collected from 14 monitoring wells and the samples were analyzed for VOCs by EPA method 8260B. Constituents of concern (COCs) that exceeded Residential Type 1 or Industrial Type 3 RRS's included:

- 1, 1-dichloroethene (1, 1-DCE)
- cis-1, 2-dichloroethene (cis-1, 2-DCE)
- 1, 2-dichloroethane (1, 2-DCA)
- 1, 1, 1-trichloroethane (1, 1, 1-TCA)
- 1, 1, 2-trichloroethane (1, 1, 2-TCA)
- carbon tetrachloride
- tetrachloroethene (PCE)
- trichloroethene (TCE)

The groundwater VOC source area and groundwater VOC plume was further delineated with the installation of three residuum monitoring wells (MW-11, MW-12 and MW-13) and one deep bedrock well (MW-4D) in 2009. Groundwater monitoring has been conducted on an infrequent periodic basis from 2009 to 2014. Type 3 and Type 4 risk reduction standards for the COCs were calculated and submitted by S&ME and approved by the Georgia EPD in 2010.

Historical groundwater analytical results are summarized on **Table 3**. Groundwater analytical results (volatile organic compounds) from the January 2012 and October 2014 sampling events are illustrated on

Figure 9A (Shallow Aquifer), **Figure 9B** (Deep Aquifer), **Figure 10A** (Shallow Aquifer), and **Figure 10B** (Deep Aquifer), respectively. Groundwater analytical data for the October 2014 sampling event is presented in **Appendix II**.

Site-specific Type 3 and 4 RRSs were calculated and submitted to the Georgia EPD in May 2010. The RRSs were approved by the Georgia EPD in February 2011 (**Appendix III**). Type 3 RRSs were calculated for 1, 4-dioxane, 1, 1-dichloroethane (DCA), chloroform, carbon tetrachloride, 1, 2-DCA, toluene, tetrachloroethylene (PCE), and bromoform. Type 4 RRSs were calculated for vinyl chloride, (DCE), acetone, methylene chloride, cis-1, 2-DCE, 1, 1, 1-TCA, TCE, and 1, 1, 2-TCA. Based on the recent groundwater data (October 2014), 1, 4-dioxane, PCE, and 1, 2-DCA were detected above the site-specific RRSs. The exceedances occurred in groundwater samples collected from MW-3D and MW-13. The detection of 1, 4-dioxane in MW-13 was above the Type 3 RRS for the first time since 2011.

Monitoring well MW-9, located side gradient in a right-of-way and north of the source (lab) area, was installed in early 2006 and was only sampled once in April 2006 before it was accidentally destroyed. The analytical results were that all VOC constituents were below detection limits. Monitoring well MW-9 is approximately 100 feet side gradient of monitoring well MW-7, which is located approximately 160 feet down gradient of the source area. Monitoring well MW-7 historical analytical results illustrate that all groundwater results have been below detection limits for VOCs since 2011. Therefore, a replacement well for monitoring well MW-9 is not required to complete the VOC groundwater delineation.

2.3 Mann-Kendall Trend Analysis

The groundwater VOC trend for the COCs indicate a stable or decreasing trend and thus demonstrate the occurrence of monitored natural attenuation. In order to evaluate the VOC groundwater trends, the Mann-Kenndall non-parametric statistical analysis was applied to the groundwater data using the publically available GSI Mann-Kendall Toolkit. Groundwater data from four monitoring wells (MW-1, MW-2, MW-3D and MW-13) were utilized to determine trend analyses. These wells had COC groundwater concentrations that have historically exceeded the RRSs. Groundwater analytical data was utilized from January 2010 to October 2014.

The Mann-Kendall analyses were run for the following VOCs in each of the four monitoring wells:

- 1, 4 Dioxane
- 1, 2 DCA
- 1, 1-DCE
- PCE

The statistical analyses have shown no increasing trend and the majority of the trends are shown to be stable in the source area (MW-1, MW-2 and MW-13). Those COCs for wells that indicate no-trend have current concentrations that are less than the highest concentration during the review period. The statistical Mann-Kendall analyses are provided in **Appendix IV**.

2.4 Corrective Action

2.4.1 In-situ Chemical Oxidation

S&ME supervised the injection of sodium persulfate (with sodium hydroxide as an activator) as part of a chemical oxidation injection pilot test. The injection pilot test utilizing selected injection points (I-3, I-4, and I-8) was conducted in January 2011. A total of 6,959 gallons of 5% persulfate solution was distributed among the three injection points. During the injection event, performance monitoring was conducted by collecting groundwater quality parameters (DO, conductivity, pH, temperature, ORP, and pressures) in selected injection wells (I-2, I-5 through I-7, and I-9) and groundwater monitoring wells (MW-1, MW-2, MW-4D, and MW-13).

Based on the results from the April 2011 monitoring event (post-injection), the January 2011 chemical injection event appeared to have been favorable in the reduction of "ethene" type constituents (1, 1-DCE, TCE, and PCE); however, "ethane" type constituents (1, 1-DCA, 1, 1, 1-TCA, and 1, 1, 2-TCA) remained stable and/or slightly elevated. The mixed results could have been contributed to not utilizing enough oxidant (persulfate) to counteract subsurface conditions (i.e. amount of actual contamination, SOD), subsurface interference, or insufficient reaction time. Groundwater samples collected from monitoring well MW-13 showed the most favorable results with reduction in all constituents (1, 1-DCE, 1, 1-DCA, 1, 1, 1-TCA, 1, 2-DCA, TCE, 1, 1, 2-TCA, and PCE) detected in that particular monitoring well. Constituents 1, 2-DCA, TCE, PCE, and 1, 1, 2-TCA were reported below laboratory reporting levels in monitoring well MW-13. These constituents historically had been reported above their specified RRSs. No additional chemical injections have been performed at the site.

2.4.2 Monitoring Natural Attenuation

Groundwater has been monitored since 2006; however, no monitoring for monitoring natural attenuation (MNA) effectiveness has been conducted.

3.0 Human Health and Exposure Pathway

3.1 Evaluation of Vapor Intrusion Risk

Groundwater has been identified as a potential source medium for impacts to indoor air. A vapor intrusion evaluation was conducted to determine whether groundwater impacts pose indoor air risks to hypothetical on-site residents at the site. VOCS that historically exceeded Type 3 or Type 4 RRS were included in the evaluation and include:

- 1, 2-DCA
- 1, 1, 2-TCA
- 1, 1-DCE
- TCE
- PCE
- Carbon Tetrachloride
- 1, 4 Dioxane

The EPA Vapor Intrusion Screening Level (VISL 2014) calculator was used to calculate human health risk from inhalation of indoor air containing the VOCs noted above. The VISL model calculates screening levels for use in evaluation the vapor intrusion pathway at Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and RCRA sites. These screening levels are calculated using the recommended approaches in existing guidance.

The VISL calculator is a spreadsheet tool that (1) lists chemicals considered to be volatile and known to pose a potential cancer risk or noncancer hazard through the inhalation pathway; (2) provides generally recommended screening-level concentrations for groundwater, soil gas (exterior to buildings and sub-slab) and indoor air for default target risk levels and exposure scenarios; and (3) allows calculation of site-specific screening levels based on user-defined target risk levels and exposure scenarios.

The VISLs are calculated using the recommended approaches in existing guidance and are based on current understanding of the vapor intrusion pathway. The screening levels for groundwater and soil gas are calculated target indoor air concentrations using empirically–based conservative "generic" attenuation factors that reflect generally reasonable worst-case conditions as described in the EPA's draft vapor intrusion guidance (EPA 2013).

The target groundwater concentration corresponding to a chemical's target indoor air concentration is calculated by dividing the target indoor air concentration by an attenuation factor of 0.001 and then converting the vapor concentration to an equivalent groundwater concentration, assuming equilibrium between the aqueous and vapor phases at the water table. The equilibrium partitioning is assumed to obey Henry's law.

Specific factors that do not apply to this site, but may result in non-attenuated or enhanced transport of vapors towards a receptor which may render the VISL screening inappropriate are:

- Shallow groundwater (depths less than five feet bgs)
- Shallow soil contamination
- Buildings with significant exposure to impacted soils (un-lined sumps, crawl spaces e.g.)

The following assumptions were made using the VISL calculator:

- Groundwater or vadose zone for source of volatile vapors that migrate through unsaturated soils toward the surface and into buildings
- The volatile vapors are attenuated through the unsaturated soil and diluted when entering the air in the building
- The soil is considered homogeneous and isotropic
- The receptors are assumed to be occupants of the building

3.1.1 Representative Concentration

The representative concentration in the groundwater that may provide the source for migration of vapors to the surface and vapor intrusion into buildings is addressed in this section. The historical maximum groundwater concentrations, corresponding dates and RRSs for the constituents above are provided below:

- 1, 2-DCA (MW-13 – 0.016 µg/L 8/4/2011) Type 3 RRS - 0.005 µg/L
- 1, 1, 2-TCA (MW-2 – 0.076 µg/L 1/9/2006) Type 4 RRS – 0.0464 µg/L

- 1, 1 – DCE (MW-2 – 2.70 µg/L 1/9/2006) Type 4 RRS – 0.524 µg/L
- TCE (MW-2 – 0.074 µg/L 1/9/2006) Type 4 RRS – 0.0345 µg/L
- PCE (MW-13 – 0.026 µg/L 1/9/2011) Type 3 RRS – 0.005 µg/L
- Carbon Tetrachloride (MW-2 – 0.0058 µg/L 9/26/2001) Type 3 RRS – 0.005 µg/L
- 1, 4-Dioxane (MW-13 – 0.91 µg/L 1/19/2011) Type 3 RRS – 0.15 µg/L

These VOC concentrations were used in the VISL model to determine Target Indoor Air concentrations with a Target Cancer Risk (TCR) of 1E-06 and a Target Hazard Quotient (THQ) of less than 1.0.

3.1.2 VISL Results

The purpose of this VISL model is to calculate the potential exposure to the VOCs noted above from volatilizing from groundwater into indoor air in a residential structure. This is a conservative estimate since the building structures are industrial on the Georgia DOT facility and thus representative exposure is less compared to residential screening. The cumulative indoor air risk is compared to the acceptable target cancer risk (TCR) of 1E-06 and the Target Hazard Quotient (THQ) risk of 1.0.

No VOC screened in the VISL model has a TCR level that is greater than 1E-06 or a THQ of 1.0. The VISL results are provide in Appendix V.

3.2 Evaluation of Groundwater Ecological Risk

There are no surface water bodies on the site and the nearest surface water body is Pond Fork located approximately 1,500 feet down gradient and to the east-southeast of the source area. In addition, there are unnamed streams located approximately 1,600 feet cross gradient to the north and 2,200 feet up gradient to the west of the site (Figure 1). In 1988, GDOT collected surface water samples from the northern and western unnamed creeks. The samples were analyzed for 1, 1, 1-TCA only, which was not detected above laboratory detection limits. Additionally, one water sample was collected from a shallow borehole installed adjacent to Pond Fork. Again, only 1, 1, 1-TCA was analyzed for and not detected above laboratory detection limits.

S&ME assumes this sample was collected from a borehole due to Pond Creek being an intermittent stream at that location and being dry at the time of sampling.

3.3 Point of Demonstration for Groundwater

The October 2014 groundwater VOC concentrations) that exceed the RRS are PCE at 0.012 µg/L and 1, 2-DCA at 0.0068 µg/L in monitoring well MW-13 and 1, 4-Dioxane in down gradient well monitoring well MW-3D at 0.19 µg/L (duplicate sample). Monitoring well MW-13 is located near the source area adjacent to the lab and monitoring well MW-3D is located down gradient and northeast, approximately 400 feet from monitoring well MW-13. The property located northeast, adjacent and down gradient of the site is also a Georgia DOT property. No new monitoring wells are proposed because the VOC plume is delineated on the site.

4.0 Proposed Remediation Plan

The proposed Remediation Plan includes the following tasks:

- Submittal and approval of this VRP Application
- One annual groundwater monitoring event and report
- Recording of Groundwater Use Restriction Covenant
- Delisting from the HSI

Groundwater concentrations are near or below the RRSs for the COCs. S&ME anticipates that the COC concentrations, which are stable, will not pose a human or ecological risk.

4.1 Institutional Controls

The following institutional controls will be applied to ensure that the conditions at the Site are managed accordingly to be protective of human health and the environment:

- Groundwater use restriction environmental covenant that prohibits the use of groundwater at the site

4.2 Groundwater Monitoring

Currently there is no monitoring and reporting schedule for the site. Groundwater monitoring and reporting on an annual basis for a period of one year is being recommended for the site upon approval of the VRP application. The groundwater monitoring will include gauging and sampling of monitoring well MW-1D through MW-4D, MW-10D, MW-1 through MW-8, and MW-10 through MW-13. Low-flow groundwater sampling of monitoring wells associated with the site in accordance with EPA Region IV Science and Ecosystem Support Division Operating Procedures (SESDOP) will be performed. The groundwater samples will be analyzed for VOCs by EPA Method 8260B. In addition to VOCs, MNA monitoring will be conducted.

4.3 Projected Milestone Schedule

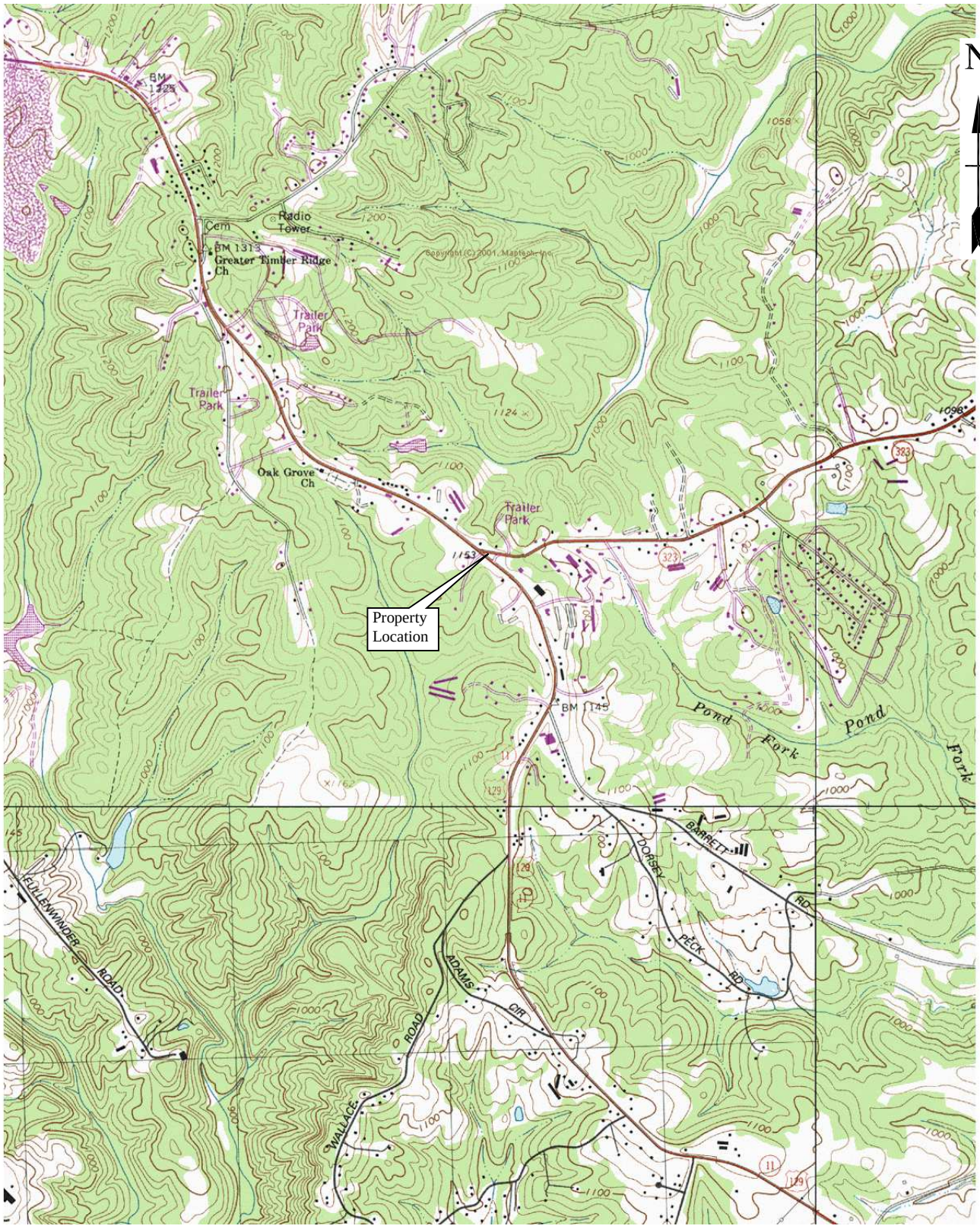
The projected milestone is the implementation of the institutional control/groundwater use covenant and one additional annual groundwater sampling event. A groundwater monitoring report, with the most recent groundwater data, will be submitted to Georgia EPD within 60 days after receiving the laboratory analytical data. If the analytical data indicates decreased or stable COC trends; the Georgia DOT will request that the site be delisted from the HSI.

VRP Application Approval	60 to 90 days after submittal
Groundwater Use Covenant Recorded	60 days after VRP Application approval
Groundwater Monitoring	March 2016
CSR Submittal	June 2016
HSI Delisting Request	30 days after approval of the CSR

5.0 References

- S&ME, February 2015, Progress Report, Georgia Department of Transportation, Gainesville District Office HSI Site No. 10759.
- S&ME, April 2012, Progress Report, Georgia Department of Transportation, Gainesville District Office HSI Site No. 10759.
- S&ME, May 12, 2010, Risk Reduction Standards, Report, Georgia Department of Transportation, Gainesville District Office HSI Site No. 10759.
- aquaFusion, Inc., November 2006, CSR, Georgia Department of Transportation, Gainesville District Office HSI Site No. 10759.
- USGS Topographic Map, Gainesville, GA Quadrangle, dated 1964
- Google Earth Photograph, dated 2014
- Clark and Zisa, 1976 Physiographic Map of Georgia, dated 1976
- GSI, 2003, 2004 Mann Kendal Toolkit, Developed for MAROS Software (Aziz et al and AFCEE), VISL Calculator, 2014, U.S. Environmental Protection Agency Office of Solid Waste and Emergency Response Office of Superfund Remediation and Technology Innovation Washington, D.C. 20460
- EPA OSWER, April 11, 2013, "Final Guidance for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Sources to Indoor Air"

Figures



Source: 1964 Gainesville, GA Quadrangle Map, Revised 1985

SCALE: 1:24000	S&ME	**USGS Topographic Map**	
CHECKED BY: PF		Project: Georgia DOT-District Office Location: 2505 Athens Hwy, Gainesville, Hall County, Georgia Number: 4468-14-073	Figure No. 1
DRAWN BY: BJW			
DATE: 9-2-15			

T:Projects\2014\ENV\4468-14-073 GDOT Gainesville-HSR\Deliverables\VRP\Figures\4468-14-073-AERIAL.dwg

SOURCE: GOOGLE EARTH IMAGE, 10/22/2014

LEGEND

PROPERTY BOUNDARY

SCALE

0 350 FT.

NORTH

SCALE:	AS SHOWN
APPROVED BY:	BJW
DRAWN BY:	RC
DATE:	9/17/15

S&ME

AERIAL MAP

GEORGIA DOT-DISTRICT OFFICE
2505 ATHENS HIGHWAY (HWY 129)
GAINESVILLE, HALL COUNTY, GEORGIA

JOB NO: 4468-14-073

FIGURE NO. 2

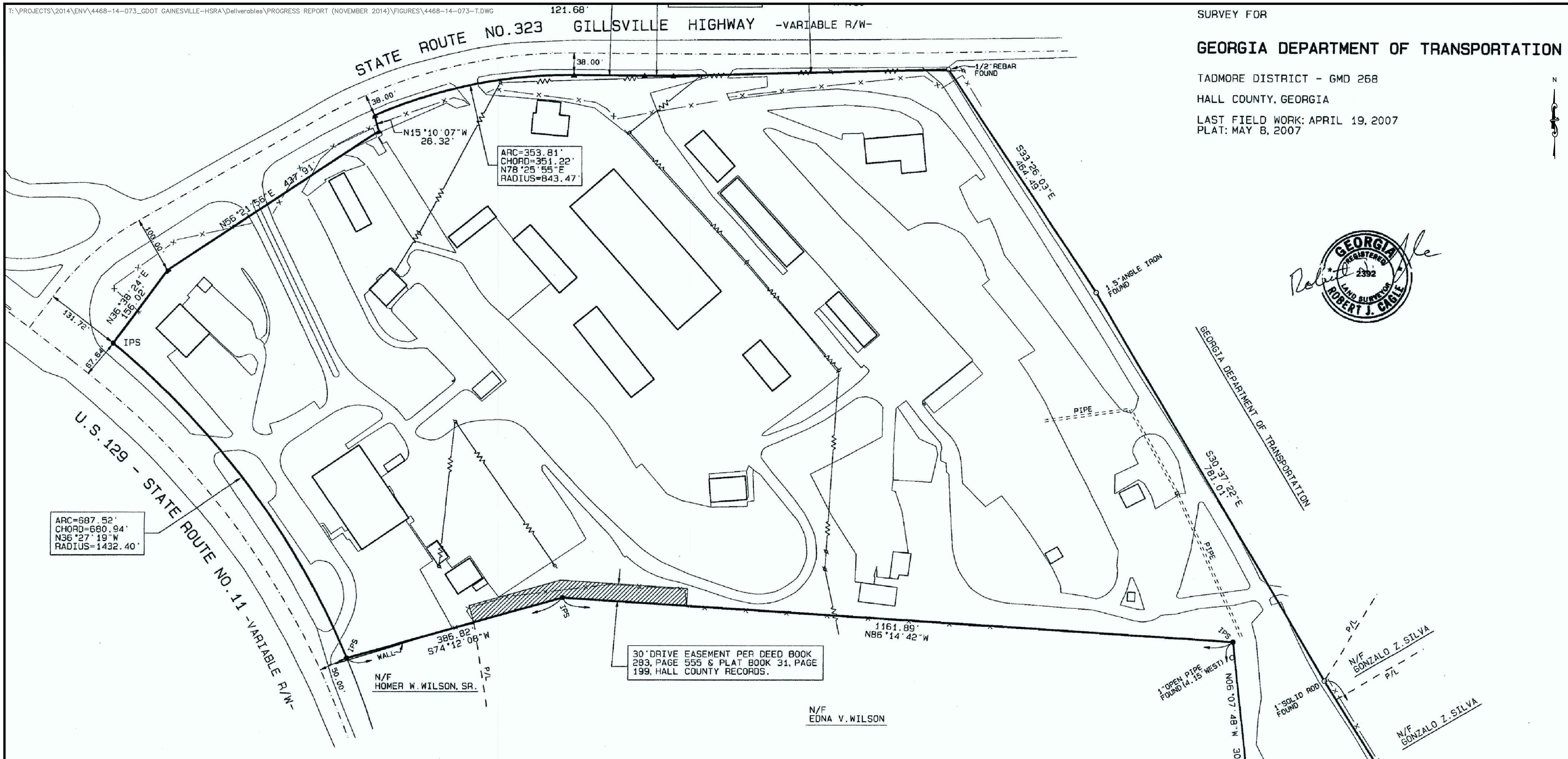
T:\PROJECTS\2014\ENV\4468-14-073_GDOT GAINESVILLE-HSRA\Deliverables\PROGRESS REPORT (NOVEMBER 2014)\FIGURES\4468-14-073-T.DWG

SURVEY FOR

GEORGIA DEPARTMENT OF TRANSPORTATION

TADMORE DISTRICT - GMD 268
HALL COUNTY, GEORGIA

LAST FIELD WORK: APRIL 19, 2007
PLAT: MAY 8, 2007



TOTAL AREA=35.789 ACRES

NOTES:

1. THE FIELD DATA UPON WHICH THIS PLAT IS BASED HAS A CLOSURE PRECISION OF ONE FOOT IN 12321 FEET AND AN ANGULAR ERROR OF 3 SECONDS PER ANGLE POINT AND WAS ADJUSTED USING THE COMPASS RULE.
2. THIS PLAT HAS BEEN CALCULATED FOR CLOSURE AND FOUND TO BE ACCURATE WITHIN ONE FOOT IN 100,000+FEET.
3. A TOPCON GTS-301 WAS USED TO OBTAIN THE LINEAR AND ANGULAR MEASUREMENTS USED IN THE PREPARATION OF THIS PLAT.
4. ALL MATTERS OF TITLE ARE EXCEPTED.
5. UNDERGROUND UTILITIES WERE NOT LOCATED.

LEGEND:

- ▲ =CALCULATED POINT (NO PIN SET OR FOUND)
- ● =1/2" REBAR SET (IPS)
- -·-·-·- =CENTERLINE
- —W— =OVERHEAD POWER LINE
- —— - - —— =LAND LOT LINE
- —x—x— =CHAINLINK FENCE
- =POWER POLE
- P/L=PROPERTY LINE

PLAT REFERENCES:

1. SURVEY FOR STATE HIGHWAY DEPARTMENT OF GEORGIA BY JOHN D.MOORE, R.L.S.#1245 (NOT DATED).
2. SURVEY FOR THOMAS DURKIN & CHRISTINE A.DURKIN BY PATTON-PATTON, INC., DATED AUGUST 6, 1998 & RECORDED IN P.B.707, PG.156A, HALL COUNTY RECORDS.
3. SURVEY FOR JOHN D.DURHAM & WILLARD E.DURHAM BY PATTON-PATTON, INC., DATED MARCH 3, 1993.
4. SURVEY FOR GARY P.ROPER BY HENRY GRADY JARRARD, R.L.S.#1182, DATED JUNE 8, 1987.
5. SURVEY FOR GEORGIA DEPARTMENT OF TRANSPORTATION BY ROBERT J.CAGLE, R.L.S.#2392, DATED MAY 31, 2001.
6. GEORGIA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY PLANS, PROJ: NH-002-6(45), DATED FEBRUARY 17, 1993

SCALE
120 60 0 120
1"=120'

S&ME

TAX PLAT

GEORGIA DOT-DISTRICT OFFICE
2505 ATHENS HIGHWAY (HWY 129)
GAINESVILLE, HALL COUNTY, GEORGIA

FILE NAME: 4468-14-073	DRAWN BY: RC	CHK'D BY: BJW
JOB NO: 4468-14-073	DATE: 9-14-15	FIGURE NO: 3

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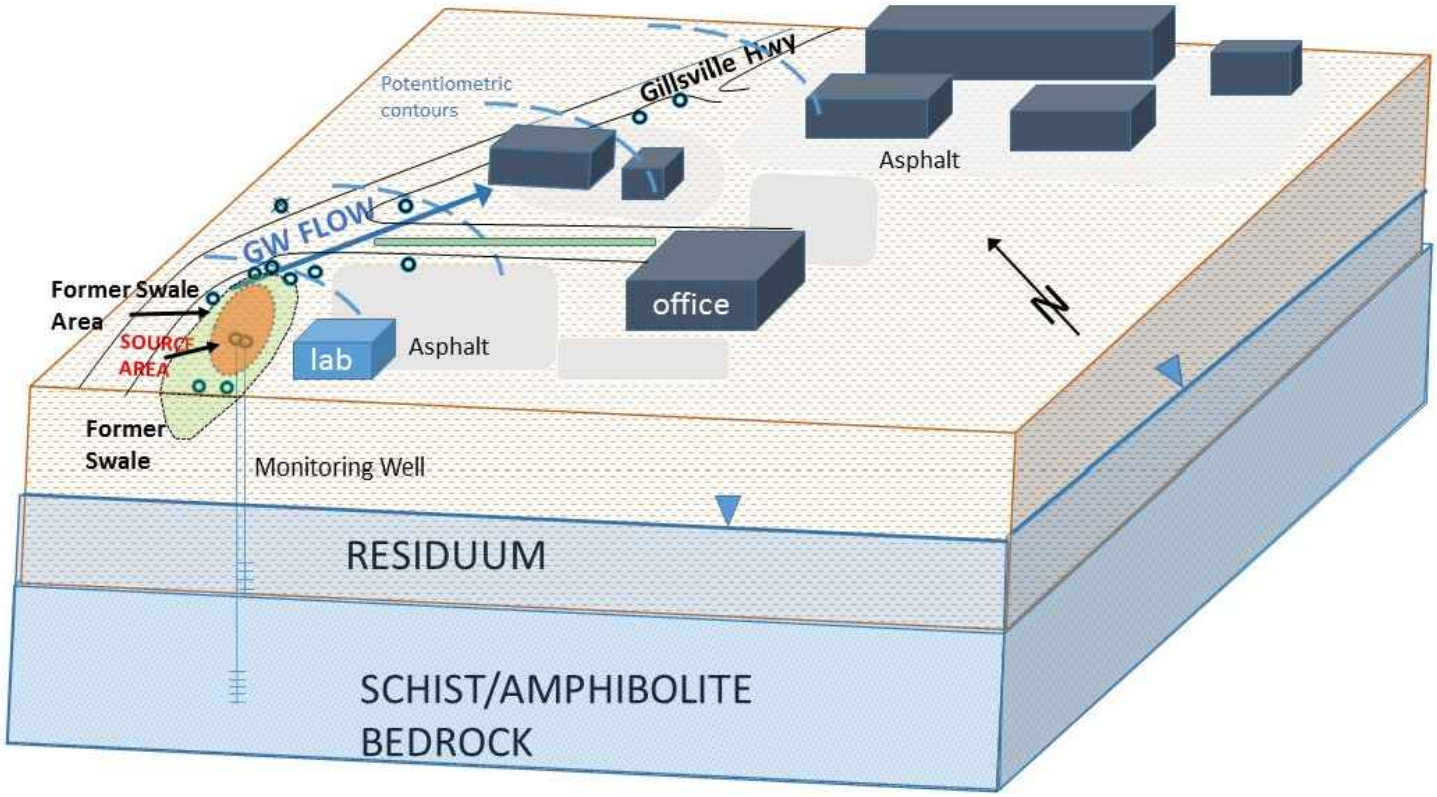
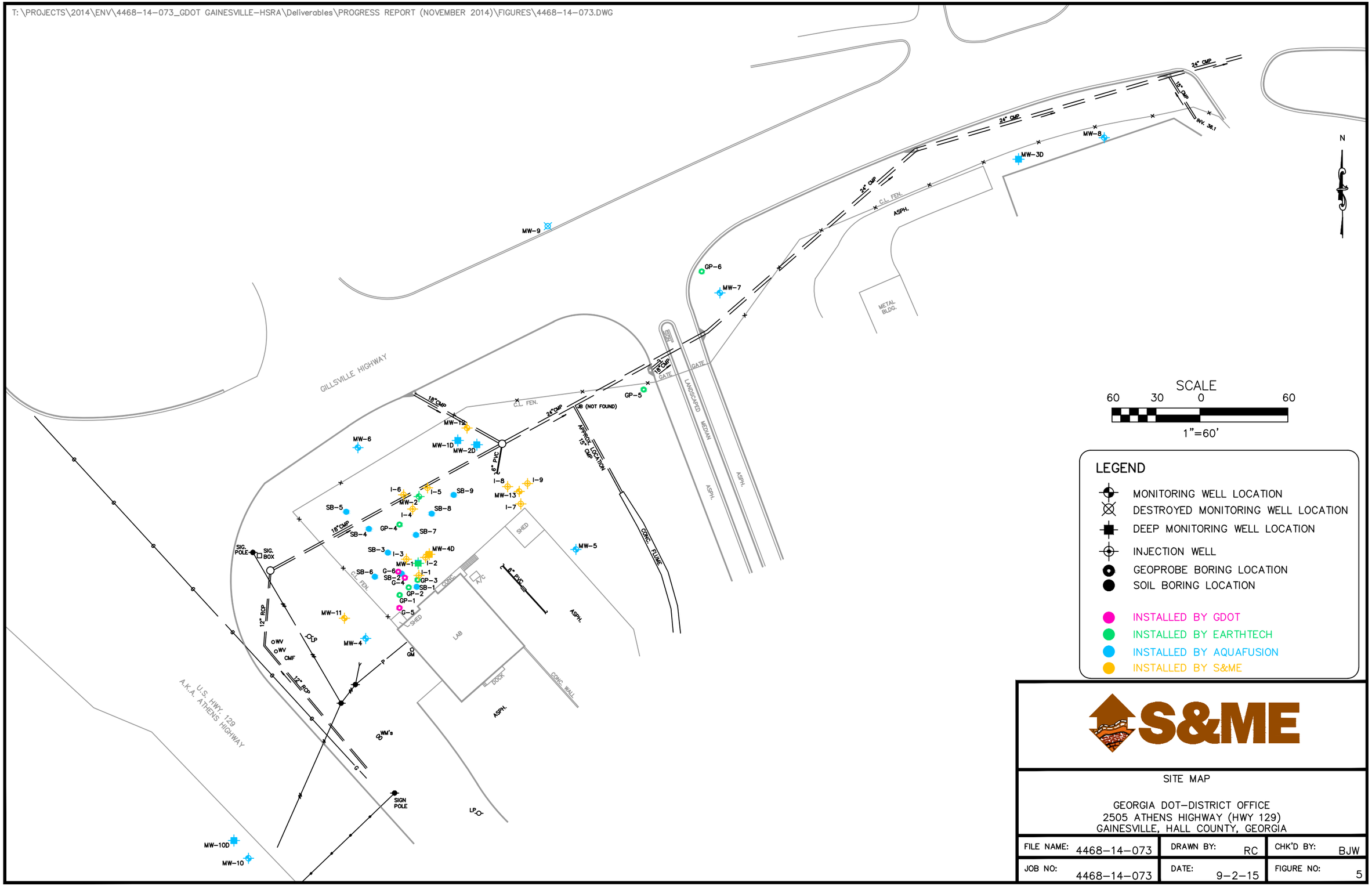


FILE NAME: CONCEPTUAL MODEL DATE: 10-6-15 DRAWN BY: WJW PROJECT NO: 4468-14-073	S&ME	CONCEPTUAL SITE MODEL GEORGIA DOT-DISTRICT OFFICE 2505 ATHENS HIGHWAY (HWY 129) GAINESVILLE, HALL COUNTY, GEORGIA	FIGURE NO. 4

T:\PROJECTS\2014\ENV\4468-14-073_GDOT GAINESVILLE-HSRA\Deliverables\PROGRESS REPORT (NOVEMBER 2014)\FIGURES\4468-14-073.DWG



LEGEND

- MONITORING WELL LOCATION
- DESTROYED MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- INJECTION WELL
- GEOPROBE BORING LOCATION
- SOIL BORING LOCATION

- INSTALLED BY GDOT
- INSTALLED BY EARTHTECH
- INSTALLED BY AQUAFUSION
- INSTALLED BY S&ME

S&ME

SITE MAP

GEORGIA DOT-DISTRICT OFFICE
2505 ATHENS HIGHWAY (HWY 129)
GAINESVILLE, HALL COUNTY, GEORGIA

FILE NAME: 4468-14-073	DRAWN BY: RC	CHK'D BY: BJW
JOB NO: 4468-14-073	DATE: 9-2-15	FIGURE NO: 5

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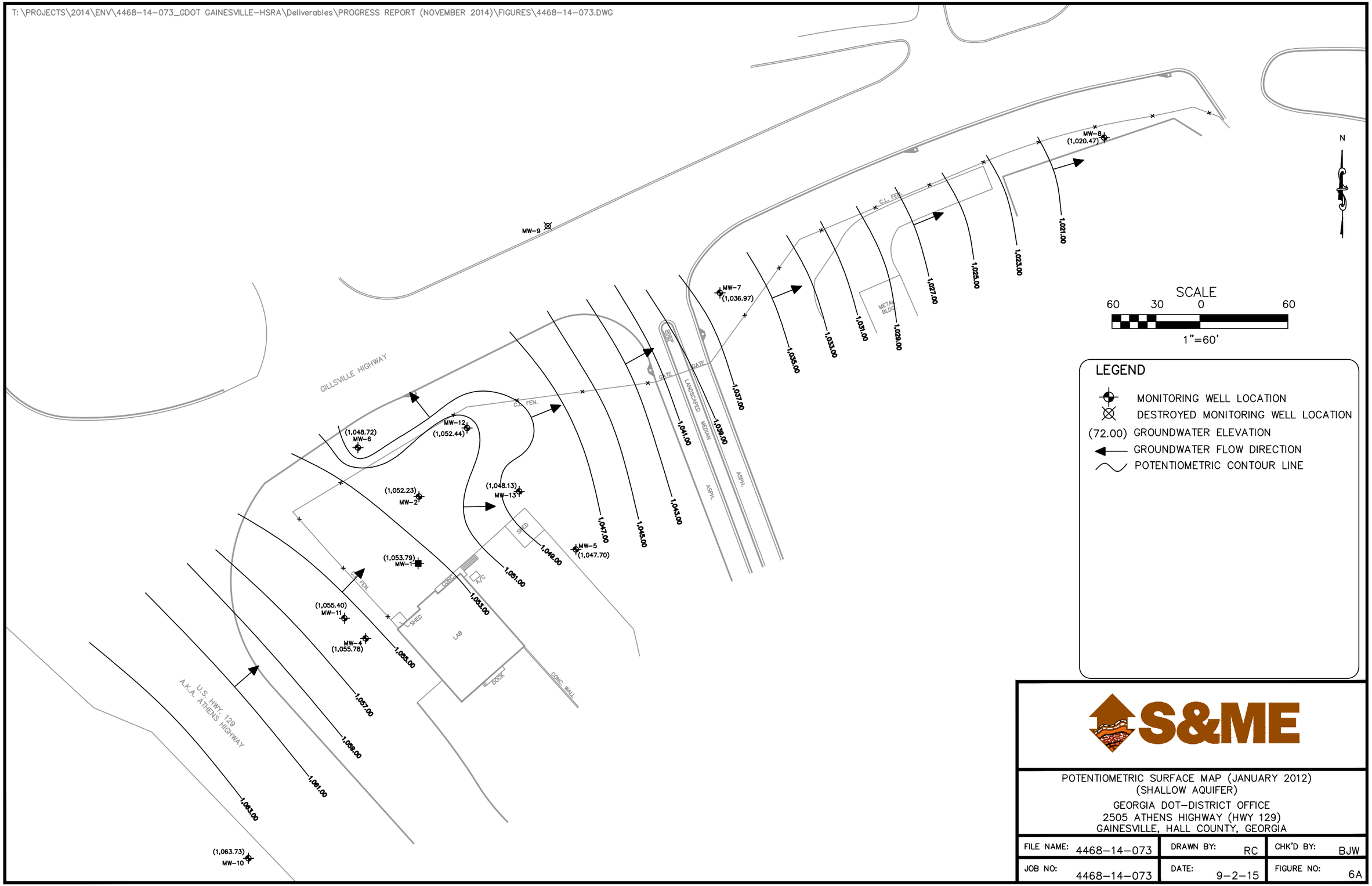

LEGEND

- MONITORING WELL LOCATION
- DESTROYED MONITORING WELL LOCATION
- (72.00) GROUNDWATER ELEVATION
- GROUNDWATER FLOW DIRECTION
- POTENTIOMETRIC CONTOUR LINE

S&ME

POTENTIOMETRIC SURFACE MAP (JANUARY 2012)
(SHALLOW AQUIFER)

GEORGIA DOT-DISTRICT OFFICE
2505 ATHENS HIGHWAY (HWY 129)
GAINESVILLE, HALL COUNTY, GEORGIA

FILE NAME:	4468-14-073	DRAWN BY:	RC	CHK'D BY:	BJW
JOB NO:	4468-14-073	DATE:	9-2-15	FIGURE NO:	6A

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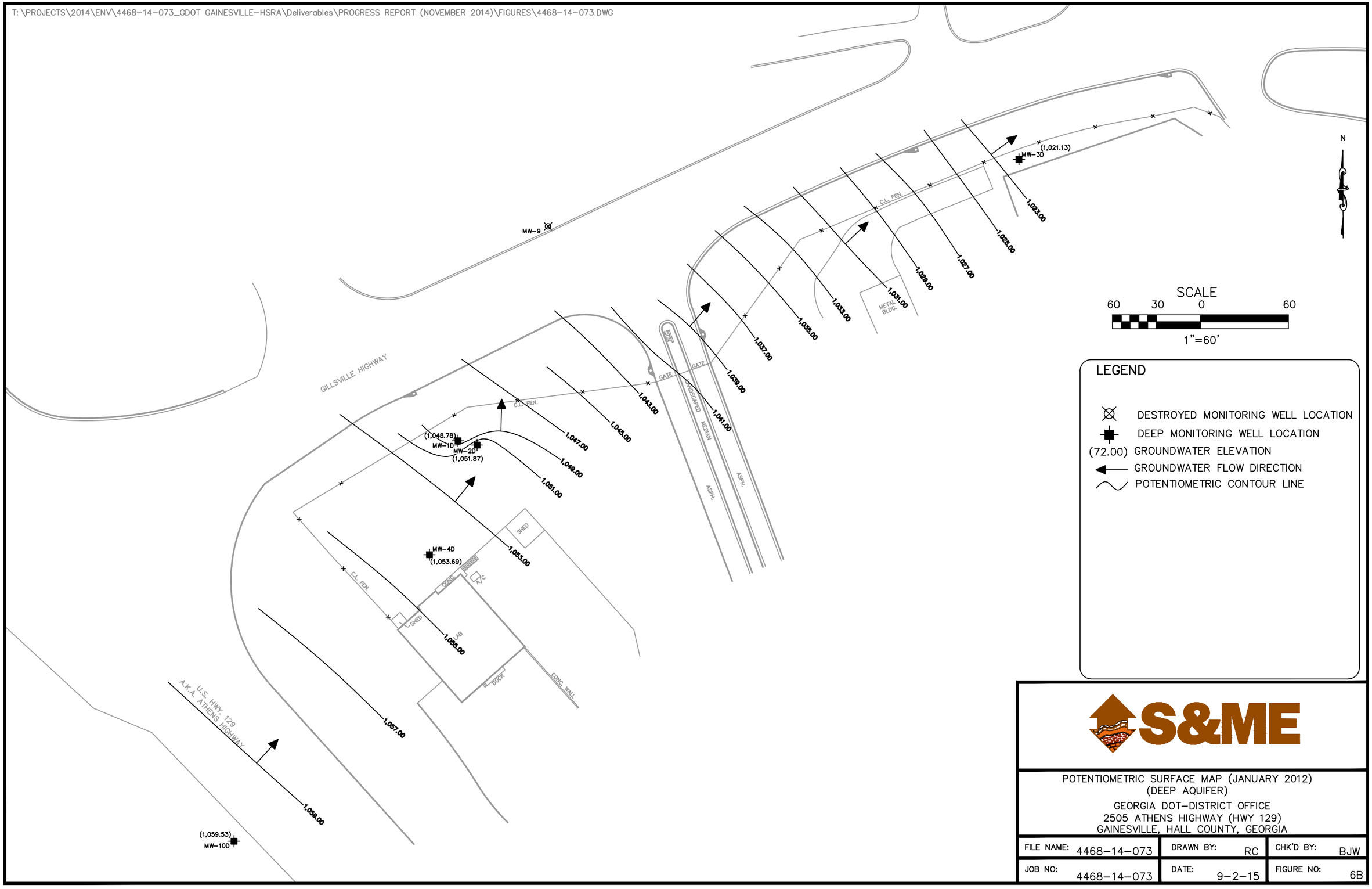

LEGEND

- DESTROYED MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- (72.00) GROUNDWATER ELEVATION
- GROUNDWATER FLOW DIRECTION
- POTENTIOMETRIC CONTOUR LINE

S&ME

POTENTIOMETRIC SURFACE MAP (JANUARY 2012)
(DEEP AQUIFER)
GEORGIA DOT-DISTRICT OFFICE
2505 ATHENS HIGHWAY (HWY 129)
GAINESVILLE, HALL COUNTY, GEORGIA

FILE NAME: 4468-14-073	DRAWN BY: RC	CHK'D BY: BJW
JOB NO: 4468-14-073	DATE: 9-2-15	FIGURE NO: 6B

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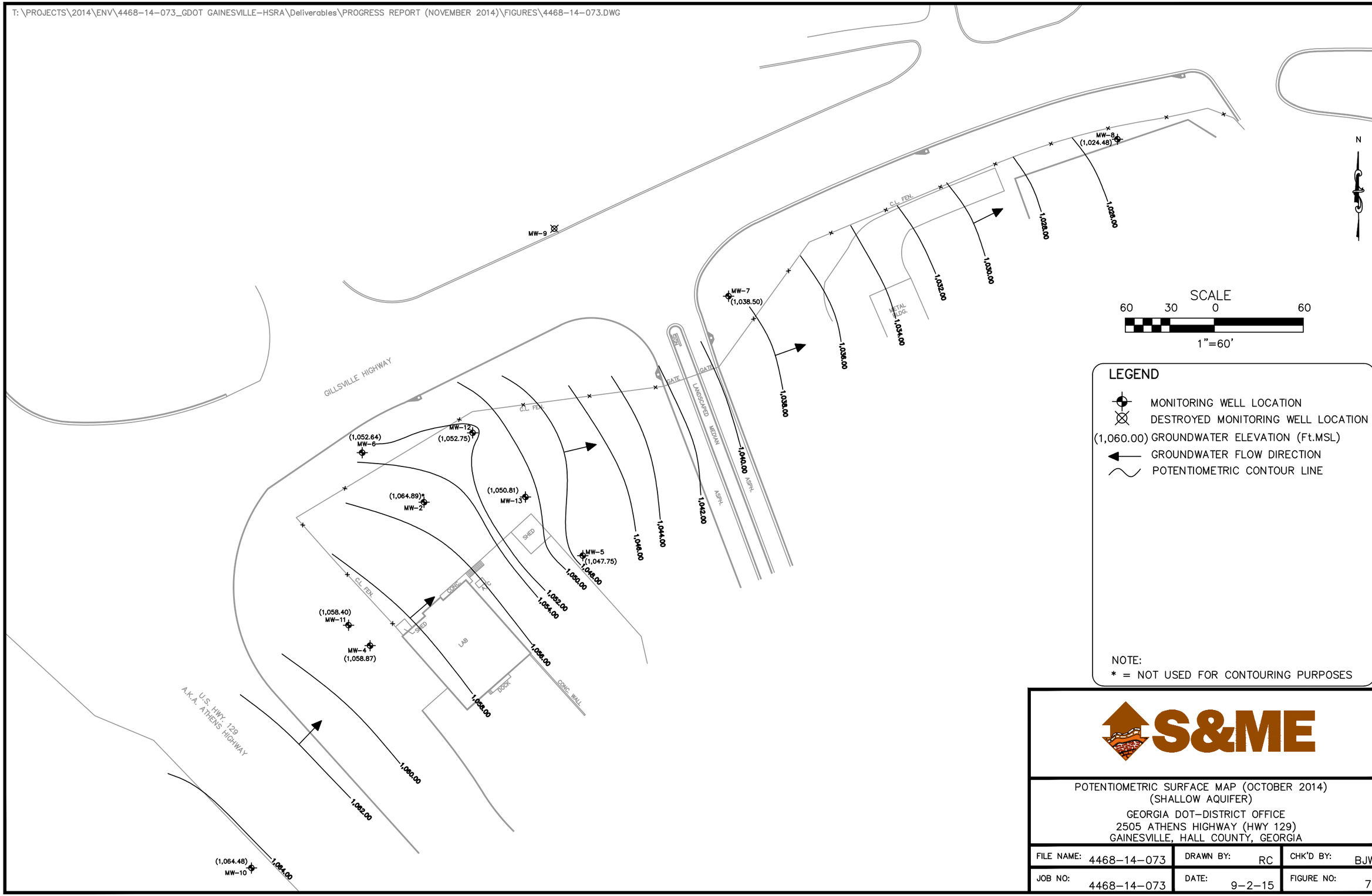

LEGEND

- MONITORING WELL LOCATION
- DESTROYED MONITORING WELL LOCATION
- (1,060.00) GROUNDWATER ELEVATION (Ft.MSL)
- GROUNDWATER FLOW DIRECTION
- POTENTIOMETRIC CONTOUR LINE

NOTE:
* = NOT USED FOR CONTOURING PURPOSES

S&ME

POTENTIOMETRIC SURFACE MAP (OCTOBER 2014)
(SHALLOW AQUIFER)
GEORGIA DOT-DISTRICT OFFICE
2505 ATHENS HIGHWAY (HWY 129)
GAINESVILLE, HALL COUNTY, GEORGIA

FILE NAME:	4468-14-073	DRAWN BY:	RC	CHK'D BY:	BJW
JOB NO:	4468-14-073	DATE:	9-2-15	FIGURE NO:	7A

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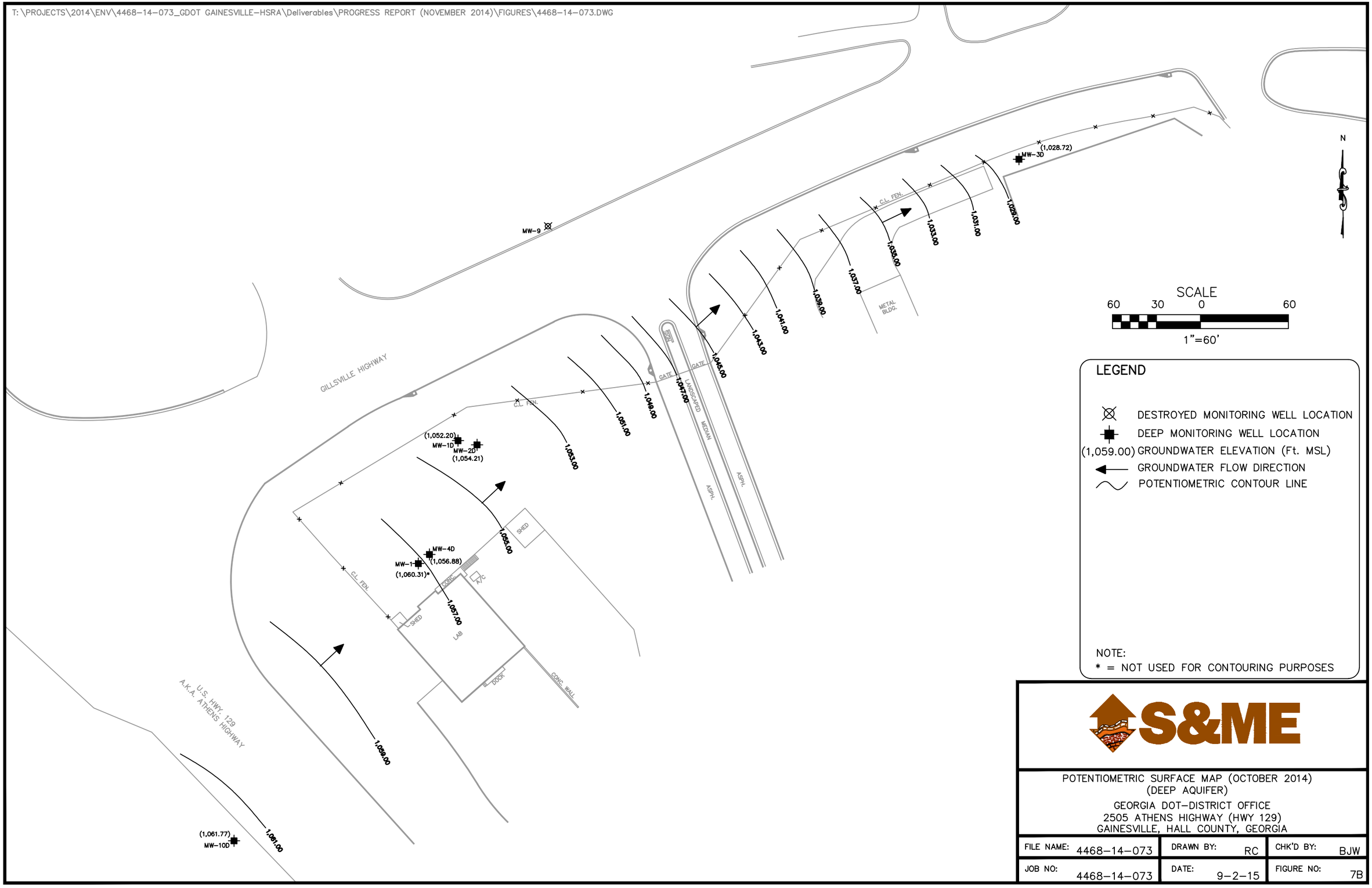

LEGEND

- DESTROYED MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- (1,059.00) GROUNDWATER ELEVATION (Ft. MSL)
- GROUNDWATER FLOW DIRECTION
- POTENTIOMETRIC CONTOUR LINE

NOTE:
* = NOT USED FOR CONTOURING PURPOSES

S&ME

POTENTIOMETRIC SURFACE MAP (OCTOBER 2014)
(DEEP AQUIFER)
GEORGIA DOT-DISTRICT OFFICE
2505 ATHENS HIGHWAY (HWY 129)
GAINESVILLE, HALL COUNTY, GEORGIA

FILE NAME: 4468-14-073	DRAWN BY: RC	CHK'D BY: BJW
JOB NO: 4468-14-073	DATE: 9-2-15	FIGURE NO: 7B

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GILLSVILLE HIGHWAY

GP-6

MW-7

METAL BLDG.

N

SIGN

GATE

GATE

18"CMP

LANDSCAPED MEDIAN

ASPH.

ASPH.

GP-5

C.L. FEN.

18"CMP

24"CMP

JB (NOT FOUND)

MW-12

MW-6

MW-1D

MW-2D

6" PVC

APPROX. 15" CMP LOCATION

SB-9

MW-13

MW-2

SB-5

SB-8

18"CMP

GP-4

SB-4

SB-7

SHED

MW-5

CONC. FLUME

SB-3

MW-4D

SIG. BOX

MW-1

SB-6

G-6

SB-2

G-4

GP-3

SB-1

GP-2

GP-1

G-5

C.L. FEN.

CONC.

A/C

6" PVC

ASPH.

SHED

12" RCP

MW-11

LAB

WV

WV

LP

CMF

MW-4

GM

P

G

12" RCP

DOCK

CONC. WA

SCALE

30 15 0 30

1"=30'

LEGEND

- MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- GEOPROBE BORING LOCATION
- SOIL BORING LOCATION

- INSTALLED BY GDOT
- INSTALLED BY EARTHTECH
- INSTALLED BY AQUAFUSION
- INSTALLED BY S&ME

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SOIL BORING LOCATIONS

GEORGIA DOT-DISTRICT OFFICE
2505 ATHENS HIGHWAY (HWY 129)
GAINESVILLE, HALL COUNTY, GEORGIA

FILE NAME: 4468-14-073	DRAWN BY: RC	CHK'D BY: BJW
JOB NO: 4468-14-073	DATE: 9-2-15	FIGURE NO: 8

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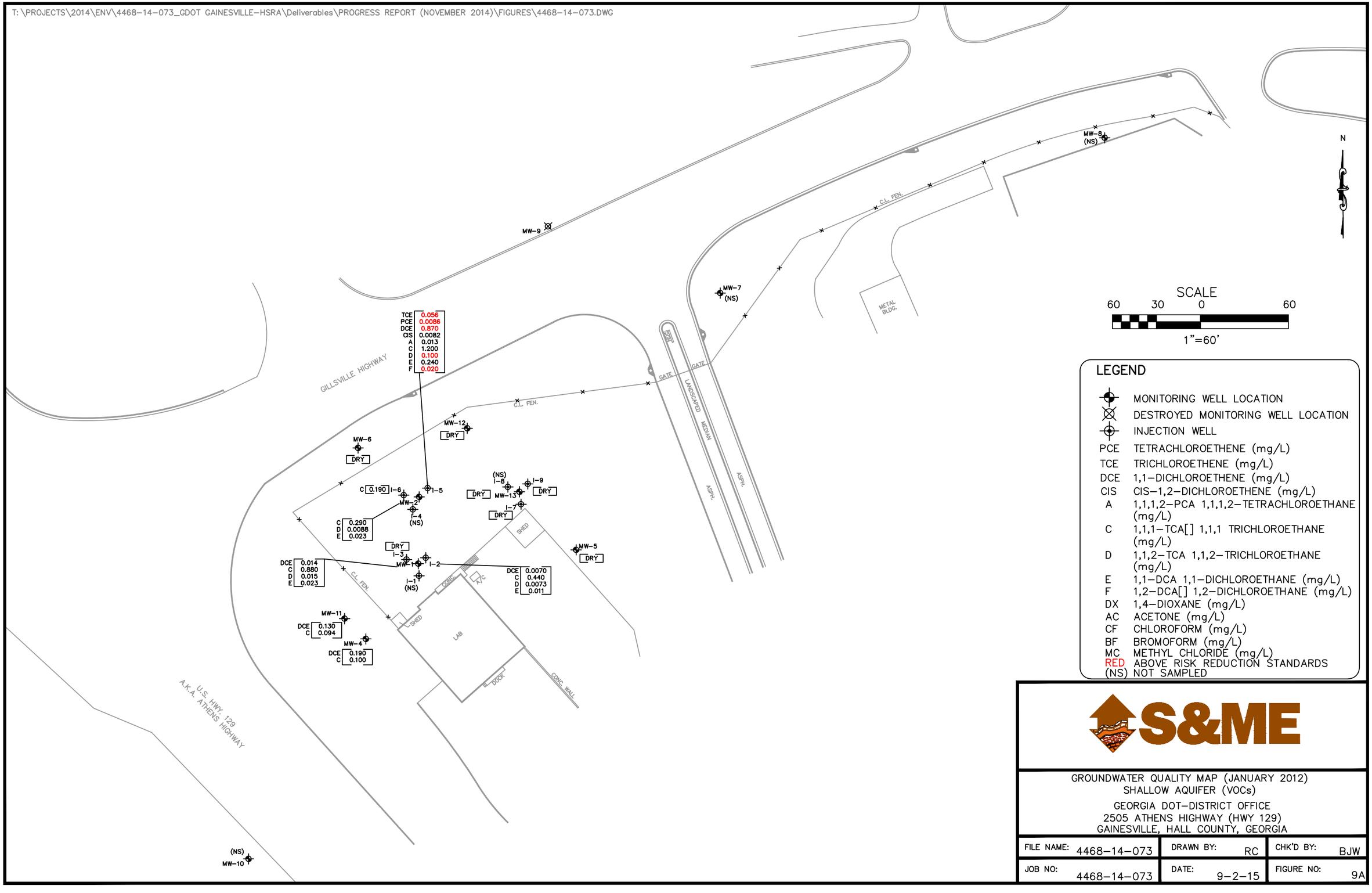

LEGEND

⊕	MONITORING WELL LOCATION
⊗	DESTROYED MONITORING WELL LOCATION
⊕	INJECTION WELL
PCE	TETRACHLOROETHENE (mg/L)
TCE	TRICHLOROETHENE (mg/L)
DCE	1,1-DICHLOROETHENE (mg/L)
CIS	CIS-1,2-DICHLOROETHENE (mg/L)
A	1,1,1,2-PCA 1,1,1,2-TETRACHLOROETHANE (mg/L)
C	1,1,1-TCA[] 1,1,1 TRICHLOROETHANE (mg/L)
D	1,1,2-TCA 1,1,2-TRICHLOROETHANE (mg/L)
E	1,1-DCA 1,1-DICHLOROETHANE (mg/L)
F	1,2-DCA[] 1,2-DICHLOROETHANE (mg/L)
DX	1,4-DIOXANE (mg/L)
AC	ACETONE (mg/L)
CF	CHLOROFORM (mg/L)
BF	BROMOFORM (mg/L)
MC	METHYL CHLORIDE (mg/L)
RED	ABOVE RISK REDUCTION STANDARDS
(NS)	NOT SAMPLED

S&ME

GROUNDWATER QUALITY MAP (JANUARY 2012)
SHALLOW AQUIFER (VOCs)

GEORGIA DOT-DISTRICT OFFICE
2505 ATHENS HIGHWAY (HWY 129)
GAINESVILLE, HALL COUNTY, GEORGIA

FILE NAME: 4468-14-073	DRAWN BY: RC	CHK'D BY: BJW
JOB NO: 4468-14-073	DATE: 9-2-15	FIGURE NO: 9A

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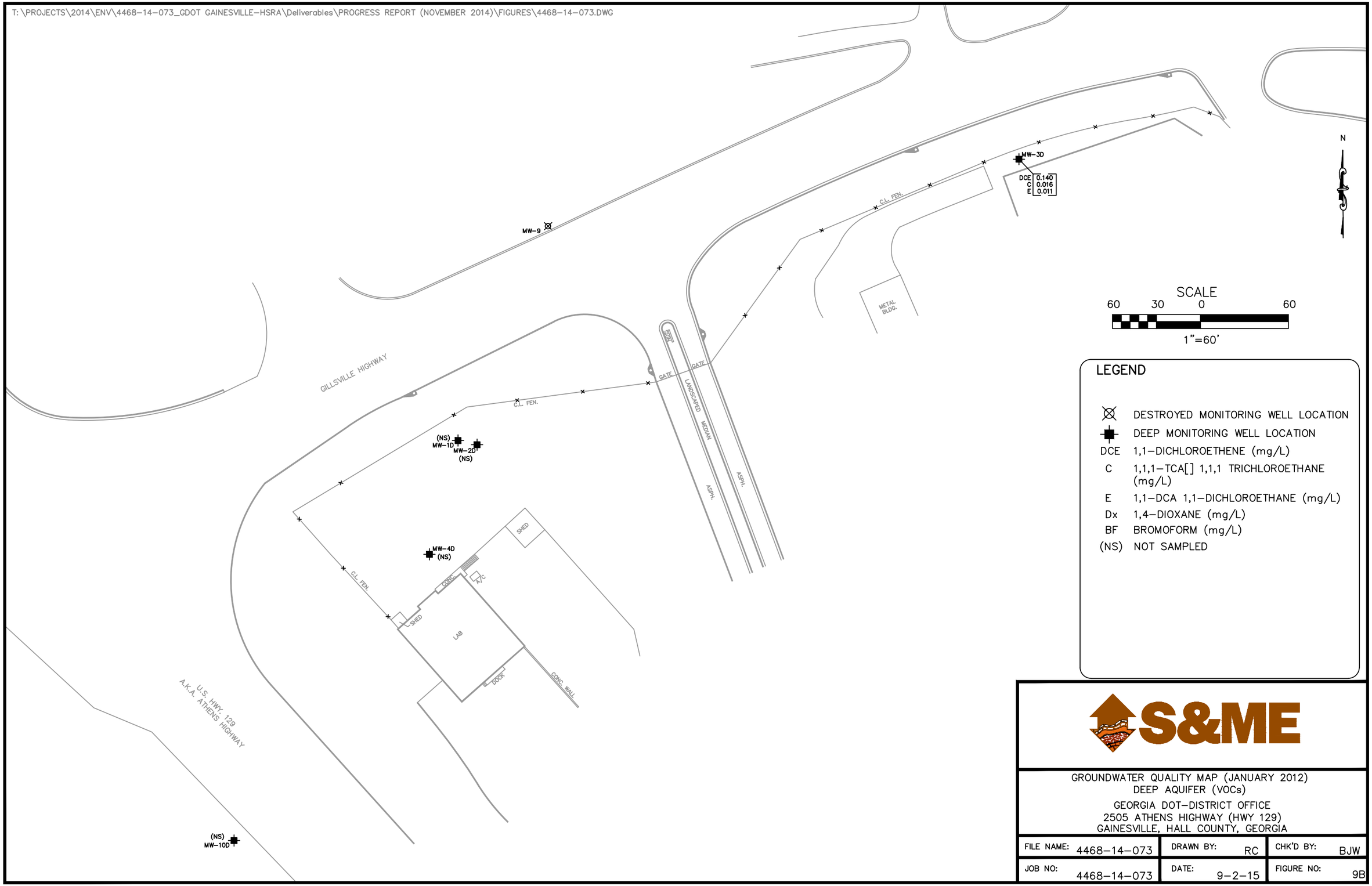

LEGEND

⊗	DESTROYED MONITORING WELL LOCATION
■	DEEP MONITORING WELL LOCATION
DCE	1,1-DICHLOROETHENE (mg/L)
C	1,1,1-TCA[] 1,1,1 TRICHLOROETHANE (mg/L)
E	1,1-DCA 1,1-DICHLOROETHANE (mg/L)
Dx	1,4-DIOXANE (mg/L)
BF	BROMOFORM (mg/L)
(NS)	NOT SAMPLED

S&ME

GROUNDWATER QUALITY MAP (JANUARY 2012)
DEEP AQUIFER (VOCs)
GEORGIA DOT-DISTRICT OFFICE
2505 ATHENS HIGHWAY (HWY 129)
GAINESVILLE, HALL COUNTY, GEORGIA

FILE NAME: 4468-14-073	DRAWN BY: RC	CHK'D BY: BJW
JOB NO: 4468-14-073	DATE: 9-2-15	FIGURE NO: 9B

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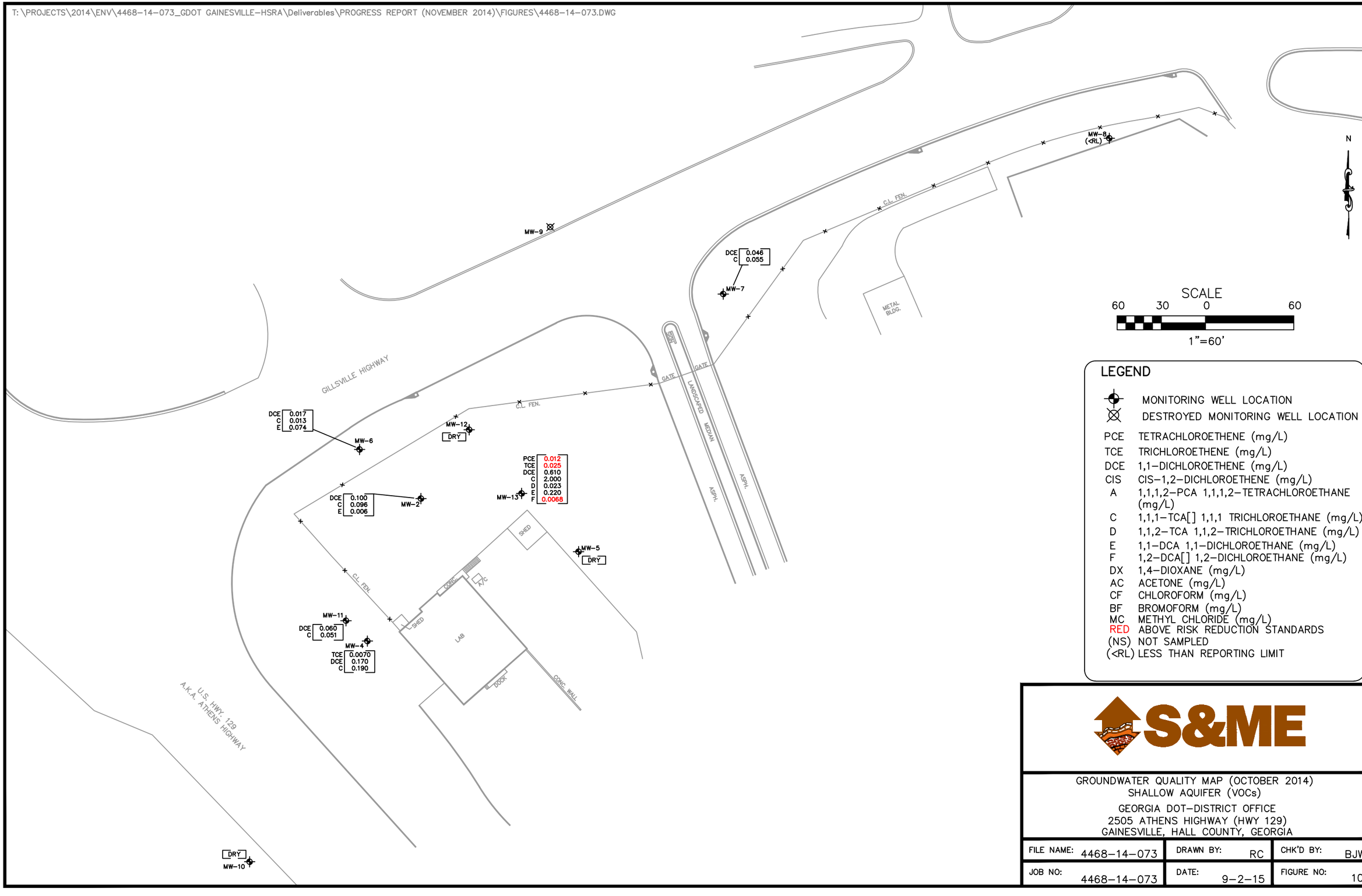


LEGEND

- MONITORING WELL LOCATION
- DESTROYED MONITORING WELL LOCATION

PCE	TETRACHLOROETHENE (mg/L)
TCE	TRICHLOROETHENE (mg/L)
DCE	1,1-DICHLOROETHENE (mg/L)
CIS	CIS-1,2-DICHLOROETHENE (mg/L)
A	1,1,1,2-PCA 1,1,1,2-TETRACHLOROETHANE (mg/L)
C	1,1,1-TCA[] 1,1,1 TRICHLOROETHANE (mg/L)
D	1,1,2-TCA 1,1,2-TRICHLOROETHANE (mg/L)
E	1,1-DCA 1,1-DICHLOROETHANE (mg/L)
F	1,2-DCA[] 1,2-DICHLOROETHANE (mg/L)
DX	1,4-DIOXANE (mg/L)
AC	ACETONE (mg/L)
CF	CHLOROFORM (mg/L)
BF	BROMOFORM (mg/L)
MC	METHYL CHLORIDE (mg/L)
RED	ABOVE RISK REDUCTION STANDARDS
(NS)	NOT SAMPLED
(<RL)	LESS THAN REPORTING LIMIT

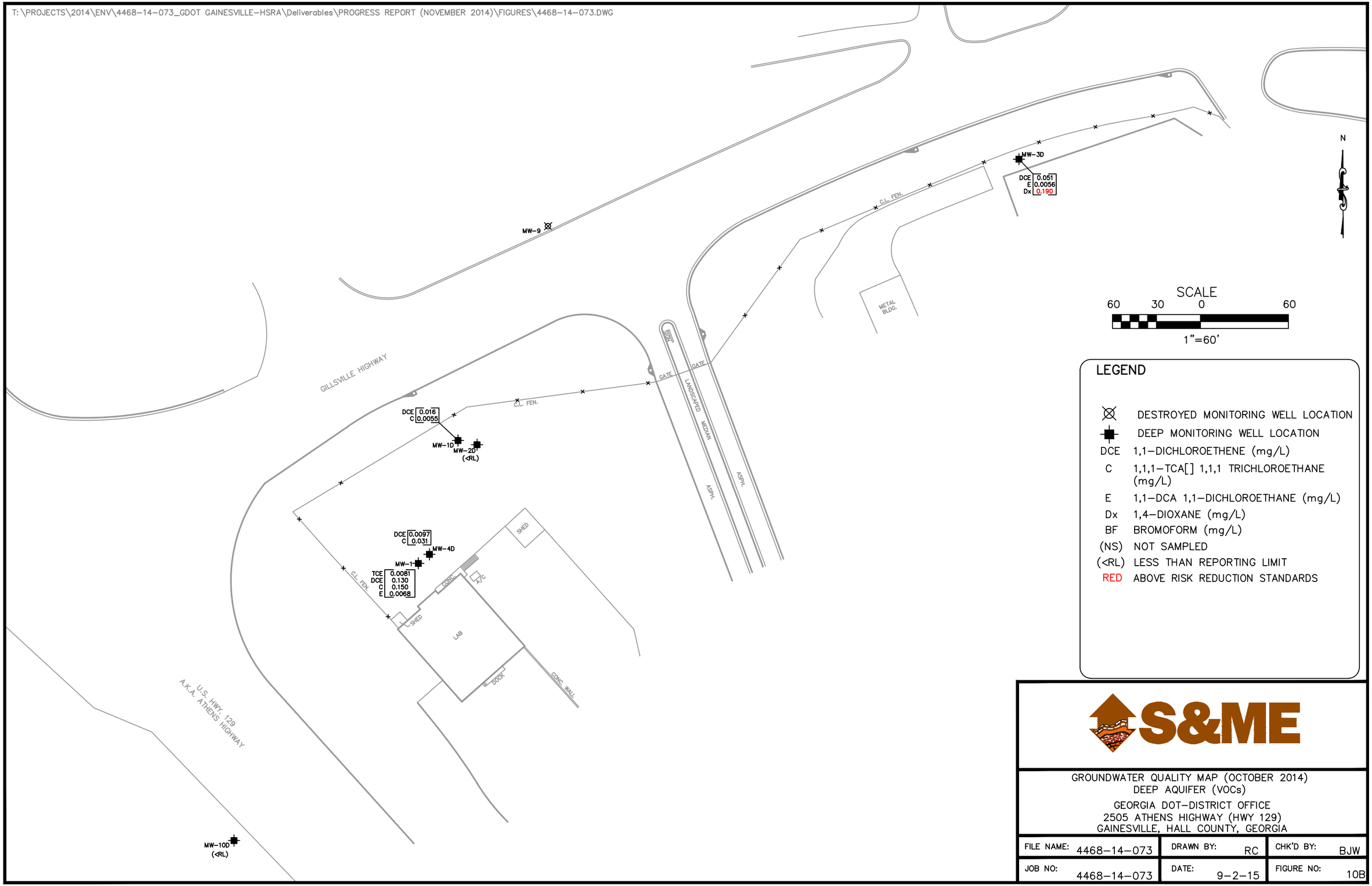
S&ME

GROUNDWATER QUALITY MAP (OCTOBER 2014)
SHALLOW AQUIFER (VOCs)

GEORGIA DOT-DISTRICT OFFICE
2505 ATHENS HIGHWAY (HWY 129)
GAINESVILLE, HALL COUNTY, GEORGIA

FILE NAME:	4468-14-073	DRAWN BY:	RC	CHK'D BY:	BJW
JOB NO:	4468-14-073	DATE:	9-2-15	FIGURE NO:	10A

T:\PROJECTS\2014\ENV\4468-14-073_GDOT GAINESVILLE-HSRA\Deliverables\PROGRESS REPORT (NOVEMBER 2014)\FIGURES\4468-14-073.DWG



LEGEND

⊗	DESTROYED MONITORING WELL LOCATION
■	DEEP MONITORING WELL LOCATION
DCE	1,1-DICHLOROETHENE (mg/L)
C	1,1,1-TCA[] 1,1,1 TRICHLOROETHANE (mg/L)
E	1,1-DCA 1,1-DICHLOROETHANE (mg/L)
Dx	1,4-DIOXANE (mg/L)
BF	BROMOFORM (mg/L)
(NS)	NOT SAMPLED
(<RL)	LESS THAN REPORTING LIMIT
RED	ABOVE RISK REDUCTION STANDARDS

S&ME

GROUNDWATER QUALITY MAP (OCTOBER 2014)
DEEP AQUIFER (VOCs)

GEORGIA DOT-DISTRICT OFFICE
2505 ATHENS HIGHWAY (HWY 129)
GAINESVILLE, HALL COUNTY, GEORGIA

FILE NAME: 4468-14-073	DRAWN BY: RC	CHK'D BY: BJW
JOB NO: 4468-14-073	DATE: 9-2-15	FIGURE NO: 10B

Tables

Table 1
Historical Soil Analytical Results

Georgia Department of Transportation-District Office
2505 Athens Highway
Gainesville, Hall County, Georgia
HSI Site No. 10759

Sample Location	Sample ID	Sample Depth	Sampled By	Laboratory	Sample Date	Analytical Method	1,1-Dichloroethene (75354)	Acetone (67641)	1,1-Dichloroethane (75343)	1,1,1-Trichloroethane (71556)
Type 1 Risk Reduction Standard							**0.70**	**400**	**400**	**20.00**
G4	G4A	0.5-1'	GDOT	GDOT	2/5/1988	EPA 8260A	NA	NA	NA	**0.0463**
	G4B	1-1.5'					NA	NA	NA	**0.0786**
G5	G5	0.5-1'					NA	NA	NA	**0.00833**
G6	G6	0-0.5'					NA	NA	NA	**49.2**
GP1	GP1	12-14'	Earth Tech	Test America	7/26/2001	EPA 8260B	<0.0016	<0.397	<0.0016	**0.0024**
		18-20'					**0.0135**	<0.0368	<0.0015	**0.0853**
		24-26'					<0.0016	<0.0397	<0.0016	<0.0016
GP2	GP2	4-6'	Earth Tech	Test America	7/26/2001	EPA 8260B	<0.0014	<0.0338	<0.0014	<0.0014
		6-8'					<0.0015	<0.0368	<0.0015	**0.0044**
		13-15'					<0.0015	**0.0485**	<0.0015	<0.0015
GP3	GP3	4-6'	Earth Tech	Test America	7/26/2001	EPA 8260B	**0.0032**	**0.0865**	<0.0016	**0.0889**
		6-8'					**0.0049**	**0.0469**	<0.0014	**0.1035**
		18-20'					<0.0014	**0.0528**	<0.0014	**0.0028**
GP4	GP4	8-10'	Earth Tech	Test America	7/26/2001	EPA 8260B	**0.0076**	<0.0352	**0.0242**	**0.0986**
		12-14'					<0.0014	<0.0352	**0.0075**	**0.0296**
GP5	GP5	2-4'	Earth Tech	Test America	7/26/2001	EPA 8260B	<0.0013	**0.0940**	<0.0013	**0.0104**
		15-17'					<0.0018	<0.0446	<0.0018	<0.0018
GP6	GP6	12-14'	Earth Tech	Test America	7/26/2001	EPA 8260B	<0.0016	**0.0448**	<0.0016	<0.0016
		18-20'					<0.0016	**0.0431**	<0.0016	<0.0016
SB-1	SB1-2022	20-22'	aquaFusion	AES	4/18/2006	EPA 8260B	<0.0028	<0.057	<0.0028	<0.0028
	SB1-3537	35-37'					<0.0029	<0.057	<0.0029	<0.0029
SB-2	SB2-1012	10-12'	aquaFusion	AES	4/19/2006	EPA 8260B	<0.0035	<0.070	<0.0035	**0.071**
	SB2-2022	20-22'					<0.0033	<0.067	<0.0033	<0.0033
	SB2-3840	38-40'					<0.0033	**0.077**	<0.0033	<0.0033
SB-3	SB3-2022	20-22'	aquaFusion	AES	4/18/2006	EPA 8260B	<0.0029	**0.073**	<0.0029	<0.0029
	SB3-3840	38-40'			4/6/2006		**0.0055**	<0.056	**0.0073**	**0.300**
SB-5	SB5-1012	10-12'	aquaFusion	AES	4/18/2006	EPA 8260B	**0.0032**	<0.060	**0.0044**	**0.057**
	SB5-2022	20-22'					**0.0040**	**0.073**	**0.0056**	**0.068**
	SB5-4042	40-42'					<0.0033	<0.066	<0.0033	<0.0033

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Sample Location	Sample ID	Sample Depth	Sampled By	Laboratory	Sample Date	Analytical Method	1,1-Dichloroethene (75354)	Acetone (67641)	1,1-Dichloroethane (75343)	1,1,1-Trichloroethane (71556)
Type 1 Risk Reduction Standard							**0.70**	**400**	**400**	**20.00**
SB-6	SB6-1012	10-12'	aquaFusion	AES	4/18/2006	EPA 8260B	<0.0030	<0.060	<0.0030	**0.013**
	SB6-2022	20-22'					<0.0033	<0.066	<0.0033	<0.0033
	SB6-3840	38-40'					<0.0055	<0.110	<0.0055	<0.0055
SB-7	SB7-1012	10-12'	aquaFusion	AES	4/18/2006	EPA 8260B	<0.0024	<0.048	<0.0024	**0.011**
	SB7-1820	18-20'					<0.0028	<0.056	<0.0028	**0.0057**
	SB7-3638	36-38'					<0.0046	<0.093	<0.0046	<0.0046
SB-8	SB8-1618	16-18'	aquaFusion	AES	4/18/2006	EPA 8260B	<0.0030	<0.060	<0.0030	<0.0030
	SB8-3438	34-38'					<0.0031	<0.062	<0.0031	<0.0031
SB-9	SB9-1618	16-18'	aquaFusion	AES	4/18/2006	EPA 8260B	<0.0034	<0.068	<0.0034	<0.0034
	SB9-3436	34-36'					<0.0028	<0.057	<0.0028	<0.0028
MW-4	MW4-3941	39-41'	aquaFusion	AES	4/3/2006	EPA 8260B	<0.0030	<0.060	<0.0030	<0.0030
MW-11	MW11 @ 0'-2'	0' - 2'	S&ME, Inc.	AES	11/5/2009	EPA 8260B	<0.0043	<0.0049	<0.0036	<0.0063
	MW12 @ 28 1/2-30	28.5' - 30'					**0.0041**	<0.0041	<0.0031	**0.025**
MW-12	MW12 @ 0'-2'	0' - 2'	S&ME, Inc.	AES	11/5/2009	EPA 8260B	<0.0035	<0.0040	<0.0030	<0.0052
	MW12 @ 8'12-10'	8.5' - 10'					<0.0033	<0.0038	<0.0029	<0.0049
MW-13	MW13 @ 0'-2'	0' - 2'	S&ME, Inc.	AES	11/5/2009	EPA 8260B	<0.0038	<0.0043	<0.0032	<0.0056
	MW13 @ 33'12-35'	33.5' - 35'					<0.0034	<0.0039	<0.0029	**0.0081**
MW-4D	MW 4D @ 0-2'	0' - 2'	S&ME, Inc.	AES	11/9/2009	EPA 8260B	**0.0044**	<0.0044	<0.0033	**0.15**

Notes: The above table presents VOC constituents detected in at least one sample.
Results reported on a dry weight basis.
Analysis of VOC consitutents not presented in the above table were reported below the laboratory detection limit.
Results reported in milligram per kilogram (mg/kg)
NA = Not Analyzed
results above laboratory reporting limits
results above the Type 1 Risk Reduction Standard

Table 2
Historical Groundwater Elevations

Georgia Department of Transportation-District Office
2505 Athens Highway
Gainesville, Hall County, Georgia
HSI Site No. 10759

Monitoring Well ID	Date	TOC Elevation (ft.)	TOC Feet in Relation to Surface [1]	Surface Elevation (ft.)	Depth to Water (ft BTOC)	Depth to Water (ft BGS)	Screen Elevations (ft MSL)		Groundwater Elevation (ft.) [3]
							Top	Bottom	
MW-1D [2]	8/17/2006	1,087.80	-0.20	1,088.00	34.59	34.79	1,031.00	1,021.00	1,053.21
	1/20/2009				42.20	42.40			1,045.60
	1/18/2010				36.97	37.17			1,050.83
	4/12/2011				36.18	36.38			1,051.62
	8/2/2011				37.12	37.32			1,050.68
	1/23/2012				39.02	39.22			1,048.78
	10/27/2014				35.60	35.80			1,052.20
MW-2D [2]	8/17/2006	1,086.08	-0.32	1,086.40	34.11	34.43	1,016.40	1,006.40	1,051.97
	1/20/2009				37.50	37.82			1,048.58
	1/18/2010				32.47	32.79			1,053.61
	4/12/2011				32.66	32.98			1,053.42
	8/2/2011				32.83	33.15			1,053.25
	1/23/2012				34.21	34.53			1,051.87
	10/27/2014				31.87	32.19			1,054.21
MW-3D [2]	8/17/2006	1,050.13	2.83	1,047.30	46.48	43.65	1,006.30	996.30	1,003.65
	1/20/2009				30.98	28.15			1,019.15
	1/18/2010				23.02	20.19			1,027.11
	4/12/2011				24.55	21.72			1,025.58
	8/2/2011				25.94	23.11			1,024.19
	1/23/2012				29.00	26.17			1,021.13
	10/27/2014				21.43	18.60			1,028.70
MW-4D [2]	1/18/2010	1,096.45	-0.10	1,096.55	39.69	39.79	1,036.55	1,026.55	1,056.76
	4/12/2011				40.93	41.03			1,055.52
	8/2/2011				41.25	41.35			1,055.20
	1/23/2012				42.76	42.86			1,053.69
	10/27/2014				39.57	39.67			1,056.88
MW-10D [4]	8/17/2006	1,096.89	-0.41	1,097.30	31.48	31.89	1,057.30	1,047.30	1,065.41
	1/20/2009				39.79	40.20			1,057.10
	1/18/2010				34.12	34.53			1,062.77
	4/12/2011				36.25	36.66			1,060.64
	8/2/2011				36.38	36.79			1,060.51
	1/23/2012				37.36	37.77			1,059.53
	10/27/2014				35.10	35.51			1,061.79
MW-1	9/26/2001	1,100.99	3.39	1,097.60	46.20	42.81	1,057.60	1,037.60	1,054.79
	8/17/2006				44.11	40.72			1,056.88
	1/20/2009				49.69	46.30			1,051.30
	1/18/2010				44.24	40.85			1,056.75
	1/19/2011				44.73	41.34			1,056.26
	4/12/2011				45.72	42.33			1,055.27
	8/2/2011				45.90	42.51			1,055.09
	1/23/2012				47.20	43.81			1,053.79
	10/27/2014				40.68	37.29			1,060.31
MW-2	9/26/2001	1,094.94	2.84	1,092.10	42.05	39.21	1,052.10	1,032.10	1,052.89
	8/17/2006				39.73	36.89			1,055.21
	1/20/2009				45.45	42.61			1,049.49
	1/18/2010				39.73	36.89			1,055.21
	1/19/2011				39.88	37.04			1,055.06
	4/12/2011				40.94	38.10			1,054.00
	8/2/2011				41.15	38.31			1,053.79
	1/23/2012				42.71	39.87			1,052.23
	10/27/2014				30.05	27.21			1,064.89
MW-3	9/26/2001	UNK			36.68	NA	43.00	53.00	NA
	8/17/2006	ABANDONED							

Table 2
Historical Groundwater Elevations

Georgia Department of Transportation-District Office
2505 Athens Highway
Gainesville, Hall County, Georgia
HSI Site No. 10759

Monitoring Well ID	Date	TOC Elevation (ft.)	TOC Feet in Relation to Surface [1]	Surface Elevation (ft.)	Depth to Water (ft BTOC)	Depth to Water (ft BGS)	Screen Elevations (ft MSL)		Groundwater Elevation (ft.) [3]
							Top	Bottom	
MW-4	8/17/2006	1,099.32	-0.28	1,099.60	40.43	40.71	1,061.60	1,051.60	1,058.89
	1/20/2009				46.09	46.37			1,053.23
	1/18/2010				40.36	40.64			1,058.96
	1/19/2011				41.24	41.52			1,058.08
	4/12/2011				42.03	42.31			1,057.29
	8/2/2011				42.19	42.47			1,057.13
	1/23/2012				43.54	43.82			1,055.78
	10/27/2014				40.45	40.73			1,058.87
MW-5	8/17/2006	1,087.88	-0.12	1,088.00	40.52	40.64	1,057.50	1,047.50	1,047.36
	1/20/2009				40.12	40.24			1,047.76
	1/18/2010				36.55	36.67			1,051.33
	1/19/2011				40.11	40.23			1,047.77
	4/12/2011				40.25	40.37			1,047.63
	8/2/2011				DRY				DRY
	1/23/2012				40.18	40.30			1,047.70
	10/27/2014				40.13	40.25			1,047.75
MW-6	8/17/2006	1,095.40	-0.20	1,095.60	42.76	42.96	1,057.60	1,047.60	1,052.64
	1/20/2009				DRY	NA			DRY
	1/18/2010				45.16	45.36			1,050.24
	1/19/2011				43.37	43.57			1,052.03
	4/12/2011				44.38	44.58			1,051.02
	8/2/2011				45.04	45.24			1,050.36
	1/23/2012				46.68	46.88			1,048.72
	10/27/2014				42.76	42.96			1,052.64
MW-7	8/17/2006	1,072.75	-0.15	1,072.90	34.77	34.92	1,026.90	1,016.90	1,037.98
	1/20/2009				37.79	37.94			1,034.96
	1/18/2010				33.06	33.21			1,039.69
	4/12/2011				35.10	35.25			1,037.65
	8/2/2011				34.71	34.86			1,038.04
	1/23/2012				35.78	35.93			1,036.97
	10/27/2014				34.25	34.40			1,038.50
MW-8	8/17/2006	1,043.66	-0.14	1,043.80	20.07	20.21	1,018.80	1,008.80	1,023.59
	1/20/2009				25.56	25.70			1,018.10
	1/18/2010				18.03	18.17			1,025.63
	4/12/2011				18.95	19.09			1,024.71
	8/2/2011				20.57	20.71			1,023.09
	1/23/2012				23.19	23.33			1,020.47
	10/27/2014				19.18	19.32			1,024.48
MW-9	8/17/2006	1,081.91	-0.19	1,082.10	17.95	18.14	1,037.10	1,027.10	1,063.96
	1/20/2009	DESTROYED							
MW-10	8/17/2006	1,096.92	-0.18	1,097.10	DRY	NA	1,071.10	1,063.10	NA
	1/20/2009				33.00	33.18			1,063.92
	1/18/2010				31.16	31.34			1,065.76
	4/12/2011				32.90	33.08			1,064.02
	8/2/2011				32.92	33.10			1,064.00
	1/23/2012				33.19	33.37			1,063.73
	10/27/2014				32.80	32.98			1,064.12
MW-11	1/18/2010	1,098.79	-0.61	1,099.40	40.93	41.54	1,063.40	1,048.40	1,057.86
	1/19/2011				41.25	41.86			1,057.54
	4/12/2011				41.56	42.17			1,057.23
	8/2/2011				41.82	42.43			1,056.97
	1/23/2012				43.39	44.00			1,055.40
	10/27/2014				40.39	41.00			1,058.40

Table 2
Historical Groundwater Elevations

Georgia Department of Transportation-District Office
2505 Athens Highway
Gainesville, Hall County, Georgia
HSI Site No. 10759

Monitoring Well ID	Date	TOC Elevation (ft.)	TOC Feet in Relation to Surface [1]	Surface Elevation (ft.)	Depth to Water (ft BTOC)	Depth to Water (ft BGS)	Screen Elevations (ft MSL)		Groundwater Elevation (ft.) [3]
							Top	Bottom	
MW-12	1/18/2010	1,086.30	-0.49	1,086.79	33.56	34.05	1,066.79	1,051.79	1,052.74
	1/19/2011				33.52	34.01			1,052.78
	4/12/2011				DRY				DRY
	8/2/2011				DRY				DRY
	1/23/2012				33.86	34.35			1,052.44
	10/27/2014				33.55	34.04			1,052.75
MW-13	1/18/2010	1,087.15	-0.45	1,087.60	34.37	34.82	1,062.60	1,047.60	1,052.78
	1/19/2011				37.11	37.56			1,050.04
	4/12/2011				37.61	38.06			1,049.54
	8/2/2011				37.24	37.69			1,049.91
	1/23/2012				39.02	39.47			1,048.13
	10/27/2014				36.34	36.79			1,050.81

Notes:
TOC = Top of Well Casing
BGS = Below Ground Surface
NG = Not Gauged

(1) = Negative number indicates a flush-mounted well completion. Positive number indicates an aboveground well completion. Elevations surveyed relative to mean sea level by Barton Surveying, Inc. of Woodstock, GA.

(2) = Well completed in bedrock as an ASTM Type III deep aquifer well.
(3) = Elevations relative to TOC Elevation.
(4) = Well completed in bedrock as an ASTM Type II shallow aquifer well.

Table 3
Historical Groundwater Analytical Results

Georgia Department of Transportation-District Office
2505 Athens Higway
Gainesville, Hall County, Georgia
HSI Site No. 10759

Sample Location	Sample ID	Sampled By	Laboratory	Sample Date	Analytical Method	1,4-Dioxane (123911)	Vinyl Chloride (75014)	1,1-DCE (75354)	Acetone (67641)	Methylene Chloride (75092)	1,1-DCA (75343)	cis-1,2-DCE (156592)	Chloroform (67663)	1,1,1-TCA (71556)	Carbon Tetrachloride (56235)	1,2-DCA (107062)	TCE (79016)	1,1,2-TCA (79005)	PCE (127184)
Risk Reduction Standards						**0.019 Type 3**	**0.00327 Type 4**	**0.524 Type 4**	**45.6 Type 4**	**0.119 Type 4**	**4.00 Type 3**	**1.02 Type 4**	**0.100 Type 3**	**13.60 Type 4**	**0.005 Type 3**	**0.005 Type 3**	**0.0377 Type 4**	**0.0464 Type 4**	**0.005 Type 3**
G-9	G-9	GDOT	GDOT	2/5/1988	EPA 8260A	NA								**0.761**	NA				
G-10	G-10					NA								<0.0050	NA				
G-11	G-11					NA								<0.0050	NA				
G-12	G-12					NA								<0.0050	NA				
G-13	G-13					NA								<0.0050	NA				
MW-1D [6]	MW-1D	aquaFusion	AES	6/7/2006	EPA 8260B	NA	<0.0020	**0.020**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.093**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
		S&ME		1/26/2009		<0.150	<0.0020	**0.056**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.032**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				1/26/2010		<0.150	<0.0020	**0.042**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.039**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				4/13/2011		<0.150	<0.0020	**0.023**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.013**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				8/4/2011		<0.150	<0.0020	**0.026**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.018**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				1/24/2012		NS													
				10/28/2014		<0.150	<0.0020	**0.016**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.0055**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW-2D [6]	MW-2D	aquaFusion	AES	8/17/2006	EPA 8260B	NA	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
		S&ME		1/27/2009		<0.150	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				1/20/2010		<0.150	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				4/13/2011		<0.150	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				8/3/2011		<0.150	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				1/24/2012		NS													
				10/27/2014		<0.150	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 3
Historical Groundwater Analytical Results

Georgia Department of Transportation-District Office
2505 Athens Higway
Gainesville, Hall County, Georgia
HSI Site No. 10759

Sample Location	Sample ID	Sampled By	Laboratory	Sample Date	Analytical Method	1,4-Dioxane (123911)	Vinyl Chloride (75014)	1,1-DCE (75354)	Acetone (67641)	Methylene Chloride (75092)	1,1-DCA (75343)	cis-1,2-DCE (156592)	Chloroform (67663)	1,1,1-TCA (71556)	Carbon Tetrachloride (56235)	1,2-DCA (107062)	TCE (79016)	1,1,2-TCA (79005)	PCE (127184)
Risk Reduction Standards						**0.019 Type 3**	**0.00327 Type 4**	**0.524 Type 4**	**45.6 Type 4**	**0.119 Type 4**	**4.00 Type 3**	**1.02 Type 4**	**0.100 Type 3**	**13.60 Type 4**	**0.005 Type 3**	**0.005 Type 3**	**0.0377 Type 4**	**0.0464 Type 4**	**0.005 Type 3**
MW-3D [6]	MW-3D	aquaFusion	AES	8/17/2006	EPA 8260B	NA	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	**0.026**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
		S&ME		1/28/2009		<0.150	**0.0032**	**0.150**	<0.050	<0.0050	**0.014**	<0.0050	<0.0050	**0.039**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				1/19/2010		<0.150	<0.0020	**0.056**	<0.050	<0.0050	**0.0062**	<0.0050	<0.0050	**0.013**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				4/14/2011		**0.210**	<0.0020	**0.089**	<0.050	<0.0050	**0.0092**	<0.0050	<0.0050	**0.013**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	MW-34D (Duplicate)					**0.210**	<0.0020	**0.094**	<0.050	<0.0050	**0.010**	<0.0050	<0.0050	**0.014**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	MW-3D			8/2/2011		<0.150	<0.0020	**0.053**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.016**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				1/26/2012		<0.150	<0.0020	**0.140**	<0.050	<0.0050	**0.011**	<0.0050	<0.0050	**0.016**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				10/30/2014		<0.150	<0.0020	**0.051**	<0.050	<0.0050	**0.0056**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	MW-X (Duplicate)					**0.190**	<0.0020	**0.044**	<0.050	<0.0050	**0.0055**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW-4D	MW-4D	S&ME	AES	1/25/2010	EPA 8260B	<0.150	<0.0020	**0.010**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.020**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				4/13/2011		<0.150	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.0080**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				8/4/2011		<0.150	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.0076**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				1/24/2012		NS													
				10/28/2014		<0.150	<0.0020	**0.0097**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.031**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW-10D [6]	MW-10R	aquaFusion	AES	8/17/2006	EPA 8260B	NA	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	**0.022**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	MW-10D	S&ME		1/29/2009		<0.150	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	MW-25D (Duplicate)					<0.150	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	MW-10D			1/25/2010		<0.150	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				4/14/2011		<0.150	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				8/3/2011		<0.150	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				1/24/2012		NS													
				10/31/2014		<0.150	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 3
Historical Groundwater Analytical Results

Georgia Department of Transportation-District Office
2505 Athens Higway
Gainesville, Hall County, Georgia
HSI Site No. 10759

Sample Location	Sample ID	Sampled By	Laboratory	Sample Date	Analytical Method	1,4-Dioxane (123911)	Vinyl Chloride (75014)	1,1-DCE (75354)	Acetone (67641)	Methylene Chloride (75092)	1,1-DCA (75343)	cis-1,2-DCE (156592)	Chloroform (67663)	1,1,1-TCA (71556)	Carbon Tetrachloride (56235)	1,2-DCA (107062)	TCE (79016)	1,1,2-TCA (79005)	PCE (127184)
Risk Reduction Standards						**0.019 Type 3**	**0.00327 Type 4**	**0.524 Type 4**	**45.6 Type 4**	**0.119 Type 4**	**4.00 Type 3**	**1.02 Type 4**	**0.100 Type 3**	**13.60 Type 4**	**0.005 Type 3**	**0.005 Type 3**	**0.0377 Type 4**	**0.0464 Type 4**	**0.005 Type 3**
MW-1	MW-1	Earth Tech	Test America	9/26/2001	EPA 8260B	NA	<0.0020	**1.9**	<0.050	<0.0050	**0.0212**	**0.0082**	<0.0020	**3.370**	**0.0038**	**0.0198**	**0.0479**	**0.0042**	<0.0020
	MW-1 (duplicate)					NA	<0.0020	**2.01**	<0.050	<0.0050	**0.0221**	**0.0083**	<0.0020	**3.690**	**0.0040**	**0.0203**	**0.0499**	**0.0042**	<0.0020
	MW-1	aquaFusion	AES	1/9/2006		NA	<0.0020	**1.700**	<0.050	<0.0050	**0.0084**	**0.0099**	<0.0050	**2.800**	<0.0050	<0.0050	**0.068**	**0.0089**	<0.0050
		S&ME		1/23/2009		<0.150	<0.0020	**1.100**	<0.050	<0.0050	**0.029**	**0.0046 (J)**	**0.0024 (J)**	**2.000**	<0.0050	**0.0072**	**0.0530**	**0.043**	**0.0057**
				1/21/2010		<0.150	<0.0020	**0.580**	<0.050	<0.0050	**0.010**	<0.0050	<0.0050	**0.920**	**0.0055**	<0.0050	**0.0360**	**0.014**	<0.0050
				1/19/2011		<0.150	<0.0020	**0.500**	<0.050	<0.0050	**0.0081**	<0.0050	<0.0050	**0.390**	<0.0050	<0.0050	**0.027**	**0.0080**	<0.0050
	MW-21 (Duplicate)					<0.150	<0.0020	**0.580**	<0.050	<0.0050	**0.0097**	<0.0050	<0.0050	**0.550**	<0.0050	<0.0050	**0.027**	**0.0087**	<0.0050
	MW-1			4/12/2011		<0.150	<0.0020	**0.030**	<0.050	<0.0050	**0.011**	<0.0050	<0.0050	**0.900**	<0.0050	<0.0050	<0.0050	**0.023**	<0.0050
				8/3/2011		<0.150	<0.0020	**0.0095**	<0.050	<0.0050	**0.016**	<0.0050	<0.0050	**1.500**	<0.0050	<0.0050	<0.0050	**0.0092**	<0.0050
				1/25/2012		<0.150	<0.0020	**0.014**	<0.050	<0.0050	**0.023**	<0.0050	<0.0050	**0.880**	<0.0050	<0.0050	<0.0050	**0.015**	<0.0050
				10/29/2014		<0.150	<0.0020	**0.130**	<0.050	<0.0050	**0.0068**	<0.0050	<0.0050	**0.150**	<0.0050	<0.0050	**0.0081**	<0.0050	<0.0050
MW-2	MW-2	Earth Tech	Test America	9/26/2001	EPA 8260B	NA	<0.0020	**2.480**	<0.050	<0.0050	**0.0375**	**0.0205**	**0.0030**	**8.180**	**0.0058**	**0.0316**	**0.112**	**0.076**	**0.0047**
		aquaFusion	AES	1/9/2006		NA	<0.0020	**2.100**	<0.050	<0.0050	**0.012**	**0.011**	<0.0050	**3.100**	**0.0053**	**0.010**	**0.068**	**0.068**	<0.0050
	D-MW-2 (Duplicate)					NA	<0.0020	**2.700**	<0.050	<0.0050	**0.013**	**0.011**	<0.0050	**3.900**	**0.0054**	**0.011**	**0.074**	**0.074**	<0.0050
	MW-2	S&ME		1/22/2009		<0.150	<0.0020	**0.320**	<0.050	<0.0050	**0.023**	**0.0018 (J)**	**0.0014 (J)**	**0.460**	<0.0050	**0.0013 (J)**	**0.015**	**0.0022 (J)**	**0.0011 (J)**
				1/26/2010		<0.150	<0.0020	**0.390**	<0.050	<0.0050	**0.280**	**0.0018 (J)**	**0.0014 (J)**	**1.900**	<0.0050	**0.0061**	**0.034**	**0.0027**	**0.0082**
				1/19/2011		<0.150	<0.0020	**0.360**	<0.050	<0.0050	**0.010**	<0.0050	<0.0050	**0.240**	<0.0050	<0.0050	**0.019**	**0.0054**	<0.0050
				4/12/2011		<0.150	<0.0020	**0.019**	**0.094**	<0.0050	**0.013**	<0.0050	<0.0050	**0.370**	<0.0050	<0.0050	<0.0050	**0.0070**	<0.0050
				8/4/2011		<0.150	<0.0020	**0.010**	<0.050	<0.0050	**0.061**	<0.0050	<0.0050	**0.940**	<0.0050	**0.0057**	<0.0050	<0.0050	<0.0050
	DW-27 (Duplicate)					<0.150	<0.0020	**0.014**	<0.050	<0.0050	**0.063**	<0.0050	<0.0050	**1.100**	<0.0050	**0.0060**	<0.0050	<0.0050	<0.0050
	MW-2			1/25/2012		<0.150	<0.0020	<0.0050	<0.050	<0.0050	**0.023**	<0.0050	<0.0050	**0.290**	<0.0050	<0.0050	<0.0050	**0.0088**	<0.0050
				10/29/2014		<0.150	<0.0020	**0.100**	<0.050	<0.0050	**0.006**	<0.0050	<0.0050	**0.096**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 3
Historical Groundwater Analytical Results

Georgia Department of Transportation-District Office
2505 Athens Higway
Gainesville, Hall County, Georgia
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Sample Location	Sample ID	Sampled By	Laboratory	Sample Date	Analytical Method	1,4-Dioxane (123911)	Vinyl Chloride (75014)	1,1-DCE (75354)	Acetone (67641)	Methylene Chloride (75092)	1,1-DCA (75343)	cis-1,2-DCE (156592)	Chloroform (67663)	1,1,1-TCA (71556)	Carbon Tetrachloride (56235)	1,2-DCA (107062)	TCE (79016)	1,1,2-TCA (79005)	PCE (127184)
Risk Reduction Standards						**0.019 Type 3**	**0.00327 Type 4**	**0.524 Type 4**	**45.6 Type 4**	**0.119 Type 4**	**4.00 Type 3**	**1.02 Type 4**	**0.100 Type 3**	**13.60 Type 4**	**0.005 Type 3**	**0.005 Type 3**	**0.0377 Type 4**	**0.0464 Type 4**	**0.005 Type 3**
MW-3	MW-3	Earth Tech	Test America	9/26/2001	EPA 8260B	NA	<0.0020	**1.170**	<0.050	<0.0050	**0.0130**	**0.0038**	<0.0020	**1.610**	**0.0022**	**0.0084**	**0.0302**	**0.0131**	**0.0026**
		aquaFusion	AES	1/9/2006		ABANDONED													
MW-4	MW-4	aquaFusion	AES	4/6/2006	EPA 8260B	NA	<0.0020	**1.000**	<0.050	<0.0050	**0.006**	<0.0050	<0.0050	**1.600**	<0.0050	<0.0050	**0.025**	<0.0050	<0.0050
		S&ME		1/29/2009		<0.150	<0.0020	**0.110**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.120**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				1/20/2010		<0.150	<0.0020	**0.370**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.670**	<0.0050	<0.0050	**0.021**	<0.0050	<0.0050
				1/19/2011		<0.150	<0.0020	**0.190**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.220**	<0.0050	<0.0050	**0.0098**	<0.0050	<0.0050
				4/12/2011		<0.150	<0.0020	**0.170**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.190**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				8/4/2011		<0.150	<0.0020	**0.110**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.120**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				1/25/2012		<0.150	<0.0020	**0.190**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.100**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				10/29/2014		<0.150	<0.0020	**0.170**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.190**	<0.0050	<0.0050	**0.0070**	<0.0050	<0.0050
MW-5	MW-5	aquaFusion	AES	4/18/2006	EPA 8260B	NA	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
		S&ME		1/27/2009		DRY													
				1/27/2010		<0.150	<0.0020	**0.011**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.018**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				4/12/2011		DRY													
				8/2/2011		DRY													
				1/24/2012		DRY													
				10/28/2014		DRY													

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Sample Location	Sample ID	Sampled By	Laboratory	Sample Date	Analytical Method	1,4-Dioxane (123911)	Vinyl Chloride (75014)	1,1-DCE (75354)	Acetone (67641)	Methylene Chloride (75092)	1,1-DCA (75343)	cis-1,2-DCE (156592)	Chloroform (67663)	1,1,1-TCA (71556)	Carbon Tetrachloride (56235)	1,2-DCA (107062)	TCE (79016)	1,1,2-TCA (79005)	PCE (127184)
Risk Reduction Standards						**0.019 Type 3**	**0.00327 Type 4**	**0.524 Type 4**	**45.6 Type 4**	**0.119 Type 4**	**4.00 Type 3**	**1.02 Type 4**	**0.100 Type 3**	**13.60 Type 4**	**0.005 Type 3**	**0.005 Type 3**	**0.0377 Type 4**	**0.0464 Type 4**	**0.005 Type 3**
MW-6	MW-6	aquaFusion	AES	4/6/2006	EPA 8260B	NA	<0.0020	**0.043**	<0.050	<0.0050	**0.020**	<0.0050	<0.0050	**0.065**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
		S&ME		1/27/2009		DRY													
				1/27/2010		<0.150	<0.0020	**0.039**	<0.050	<0.0050	**0.017**	<0.0050	<0.0050	**0.048**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				1/20/2011		<0.150	<0.0020	**0.038**	<0.050	<0.0050	**0.0066**	<0.0050	<0.0050	**0.034**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				4/12/2011		<0.150	<0.0020	**0.051**	<0.050	<0.0050	**0.020**	<0.0050	<0.0050	**0.57**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				8/4/2011		<0.150	<0.0020	**0.043**	<0.050	<0.0050	**0.012**	<0.0050	<0.0050	**0.039**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				1/24/2012		DRY													
				10/30/2014		<0.150	<0.0020	**0.017**	<0.050	<0.0050	**0.0074**	<0.0050	<0.0050	**0.013**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW-7	MW-7	aquaFusion	AES	4/6/2006	EPA 8260B	NA	<0.0020	**0.300**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.360**	<0.0050	<0.0050	**0.0058**	<0.0050	<0.0050
	D-MW-7 (Duplicate)					NA	<0.0020	**0.320**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.390**	<0.0050	<0.0050	**0.0061**	<0.0050	<0.0050
	MW-7	S&ME		1/28/2009		<0.150	<0.0020	**0.280**	<0.050	<0.0050	**0.0077**	<0.0050	<0.0050	**0.230**	<0.0050	<0.0050	**0.0076**	<0.0050	<0.0050
				1/19/2010		<0.150	<0.0020	**0.190**	<0.050	<0.0050	**0.0079**	<0.0050	<0.0050	**0.230**	<0.0050	<0.0050	**0.0078**	<0.0050	<0.0050
				4/13/2011		<0.150	<0.0020	**0.160**	<0.050	<0.0050	**0.0062**	<0.0050	<0.0050	**0.130**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	MW-24D (Duplicate)					<0.150	<0.0020	**0.160**	<0.050	<0.0050	**0.0060**	<0.0050	<0.0050	**0.130**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				8/5/2011		<0.150	<0.0020	**0.110**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.100**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	MW-7			1/24/2012		NS													
				10/30/2014		<0.150	<0.0020	**0.046**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.055**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	MW-100 (Duplicate)					<0.150	<0.0020	**0.045**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.054**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW-8	MW-8	aquaFusion	AES	4/6/2006	EPA 8260B	NA	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
		S&ME		1/27/2009		<0.150	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				1/19/2010		<0.150	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	DMW-46 (Duplicate)					<0.150	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				4/14/2011		<0.150	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	MW-8			8/2/2011		<0.150	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				1/24/2012		NS													
				10/30/2014		<0.150	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 3
Historical Groundwater Analytical Results

Georgia Department of Transportation-District Office
2505 Athens Higway
Gainesville, Hall County, Georgia
HSI Site No. 10759

Sample Location	Sample ID	Sampled By	Laboratory	Sample Date	Analytical Method	1,4-Dioxane (123911)	Vinyl Chloride (75014)	1,1-DCE (75354)	Acetone (67641)	Methylene Chloride (75092)	1,1-DCA (75343)	cis-1,2-DCE (156592)	Chloroform (67663)	1,1,1-TCA (71556)	Carbon Tetrachloride (56235)	1,2-DCA (107062)	TCE (79016)	1,1,2-TCA (79005)	PCE (127184)
Risk Reduction Standards						**0.019 Type 3**	**0.00327 Type 4**	**0.524 Type 4**	**45.6 Type 4**	**0.119 Type 4**	**4.00 Type 3**	**1.02 Type 4**	**0.100 Type 3**	**13.60 Type 4**	**0.005 Type 3**	**0.005 Type 3**	**0.0377 Type 4**	**0.0464 Type 4**	**0.005 Type 3**
MW-9	MW-9	aquaFusion	AES	4/19/2006	EPA 8260B	NA	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
		S&ME		1/29/09		DESTROYED													
MW-10	MW-10	aquaFusion	NA	4/19/2006	NA	DRY													
		S&ME		1/29/2009		DRY													
			AES	1/25/2010	EPA 8260B	<0.150	<0.0020	**0.0056**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				4/12/2011		DRY													
				8/3/2011		DRY													
				1/24/2012		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
				10/28/2014		DRY													
MW-11	MW-11	S&ME	AES	1/20/2010	EPA 8260B	<0.150	<0.0020	**0.100**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.130**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				1/19/2011		<0.150	<0.0020	**0.200**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.190**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				4/12/2011		<0.150	<0.0020	**0.033**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.040**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				8/3/2011		<0.150	<0.0020	**0.034**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.049**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				1/26/2012		<0.150	<0.0020	**0.130**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.094**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				10/29/2014		<0.150	<0.0020	**0.060**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.051**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 3
Historical Groundwater Analytical Results

Georgia Department of Transportation-District Office
2505 Athens Higway
Gainesville, Hall County, Georgia
HSI Site No. 10759

Sample Location	Sample ID	Sampled By	Laboratory	Sample Date	Analytical Method	1,4-Dioxane (123911)	Vinyl Chloride (75014)	1,1-DCE (75354)	Acetone (67641)	Methylene Chloride (75092)	1,1-DCA (75343)	cis-1,2-DCE (156592)	Chloroform (67663)	1,1,1-TCA (71556)	Carbon Tetrachloride (56235)	1,2-DCA (107062)	TCE (79016)	1,1,2-TCA (79005)	PCE (127184)
Risk Reduction Standards						**0.019 Type 3**	**0.00327 Type 4**	**0.524 Type 4**	**45.6 Type 4**	**0.119 Type 4**	**4.00 Type 3**	**1.02 Type 4**	**0.100 Type 3**	**13.60 Type 4**	**0.005 Type 3**	**0.005 Type 3**	**0.0377 Type 4**	**0.0464 Type 4**	**0.005 Type 3**
MW-12	MW-12	S&ME	NA	1/20/2010	NA	DRY													
				4/12/2011		DRY													
				8/2/2011		DRY													
				1/24/2012		DRY													
				10/28/2014		DRY													
MW-13	MW-13	S&ME	AES	1/26/2010	EPA 8260B	**0.610**	<0.0020	**0.510**	<0.050	<0.0050	**0.180**	<0.0050	<0.0050	**1.800**	<0.0050	**0.011**	**0.049**	**0.047**	**0.015**
				1/19/2011		**0.910**	<0.0020	**1.200**	<0.050	**0.0079**	**0.260**	<0.0050	<0.0050	**3.200**	<0.0050	**0.014**	**0.062**	**0.054**	**0.026**
				4/12/2011		<0.150	<0.0020	**0.032**	<0.050	<0.0050	**0.039**	<0.0050	**0.017**	**1.100**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
				8/4/2011		**0.700**	<0.0020	**0.480**	<0.050	**0.0070**	**0.300**	<0.0050	<0.0050	**3.400**	<0.0050	**0.016**	**0.044**	<0.0050	**0.016**
	DW-28 (Duplicate)					**0.640**	<0.0020	**0.420**	<0.050	**0.0080**	**0.310**	<0.0050	<0.0050	**3.600**	<0.0050	**0.016**	**0.044**	<0.0050	**0.016**
	MW-13			1/24/2012		DRY													
				10/27/2014		<0.150	<0.0020	**0.610**	<0.050	<0.0050	**0.220**	<0.0050	<0.0050	**2.000**	<0.0050	**0.0068**	**0.025**	**0.023**	**0.012**
I-2	I-2	S&ME	AES	1/24/2012	EPA 8260B	<.150	<0.0020	**0.0070**	<0.050	<0.0050	**0.011**	<0.0050	<0.0050	**0.440**	<0.0050	<0.0050	<0.0050	**0.0063**	<0.0050
	DW-67 (Duplicate)					<.150	<0.0020	**0.0060**	**0.065**	<0.0050	**0.012**	<0.0050	<0.0050	**0.430**	<0.0050	<0.0050	<0.0050	**0.0073**	<0.0050
I-5	I-5	S&ME	AES	1/24/2012	EPA 8260B	<.150	<0.0020	**0.870**	<0.050	<0.0050	**0.240**	**0.0082**	<0.0050	**1.200**	<0.0050	**0.020**	**0.056**	**0.100**	**0.0086**
I-6	I-6	S&ME	AES	1/26/2012	EPA 8260B	<.150	<0.0020	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	**0.190**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
I-7	I-7	S&ME	AES	1/26/2012	EPA 8260B	DRY													
I-9	I-9	S&ME	AES	1/26/2012	EPA 8260B	DRY													

Notes: The above table presents VOC constituents detected in at least one sample.
Results reported on a dry weight basis.
Analysis of VOC consitutents not presented in the above table were reported below the laboratory detection limit.
Results reported in milligram per Liter (mg/L)
DCE = Dichloroethene
DCA = Dichloroethane
TCA = Trichloroethane
TCE = Trichloroethene
PCE = Tetrachloroethene
NA = Not Analyzed
NS = Not Sampled
results above laboratory reporting limits
results above the Applicable Risk Reduction Standard

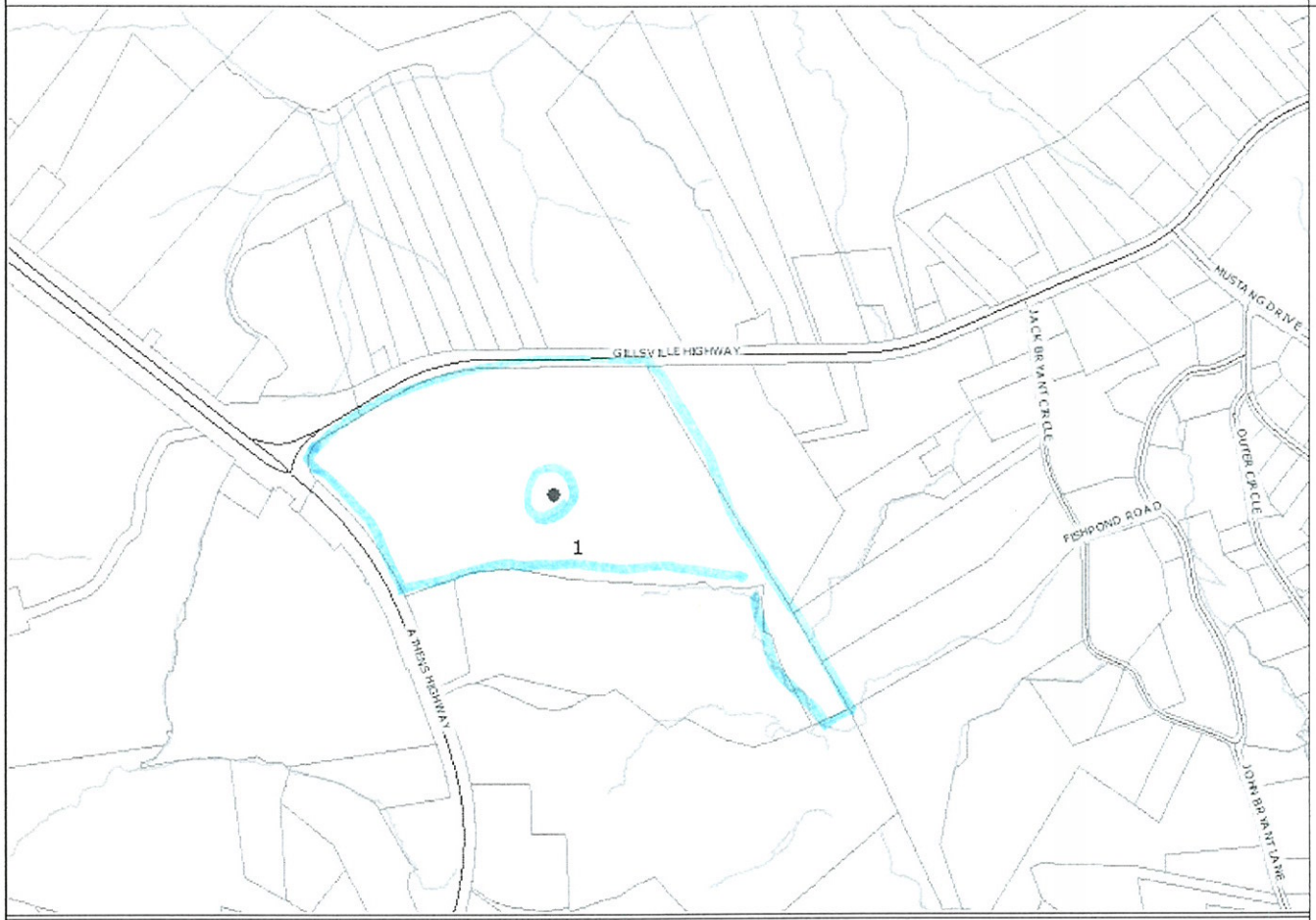
Appendices

Appendix I – Warranty Deed

Gainesville - Hall County GIS

? (5) 15023000017

Contact
Name: Hall County GIS Dept
Telephone: 770-531-6809
Email: gis@hallcounty.org
Address: 440 Prior St, SE, Gainesville, GA 30501



when I imaged the map it would not highlight with a dark line like the other maps I obtained.

Map Printed On 7/13/2010

0 193ft

GED-139-19

powered by OnPoint™

15023 000017 Deed 237/133

A
HALL
241

Form 10-9

Lawyers Title Insurance Corporation 133

ATLANTA BRANCH OFFICE

WARRANTY DEED

STATE OF GEORGIA COUNTY OF FULTON

THIS INDENTURE, Made the 17th day of August , in the year one thousand nine hundred sixty-one , between

MRS. CORA BELL PARKS COKER

of the County of FULTON , and State of Georgia, as party or parties of the first part, hereinafter called Grantor, and

STATE HIGHWAY DEPARTMENT OF GEORGIA

as party or parties of the second part, hereinafter called Grantee (the words "Grantor" and "Grantee" to include their respective heirs, successors and assigns where the context requires or permits).

WITNESSETH that: Grantor, for and in consideration of the sum of EIGHT THOUSAND FIVE HUNDRED AND NO/100 ------------------ ($8,500.00) DOLLARS in hand paid at and before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, has granted, bargained, sold, aliened, conveyed and confirmed, and by these presents does grant, bargain, sell, alien, convey and confirm unto the said Grantee,

All that tract or parcel of land lying and being in County of Hall, State of Georgia, and in Tadmore District and located about 4-1/2 miles southeast of Gainesville and more fully described as follows:

BEGINNING at the intersection of the east side of the right-of-way of U. S. Highway 129 with the southwest side of asphalt paved Tadmore Road; thence along said highway south 49 degrees 30 minutes east 490 feet; thence continuing along the east side of the right-of-way of said highway 750 feet to an iron pin; thence north 76 degrees east 400 feet to an iron pin; thence south 84 degrees east 1200 feet to creek; thence southerly and southeasterly down the creek 606 feet; thence north 69 degrees 15 minutes east 195 feet to an iron pin; thence along fence north 30 degrees 25 minutes west 1300 feet to an iron angle at corner of Willie W. Smith property; thence north 24 degrees west 470 feet to an iron angle on the southwest side of asphalt paved Tadmore Road; thence continuing in the same direction 20 feet to a point in the road; thence to other points in or near said road the following course and distances: North 88 degrees 20 minutes west 810 feet, south 66 degrees 20 minutes west 585 feet, and north 81 degrees west 560 feet to the beginning corner; EXCEPTING from the above described property that portion thereof lying within the bounds of Tadmore Road.

Said property is the property shown by plat thereof recorded in Plat Book 12, page 146, in the office of the Clerk of the Superior Court of Hall County, Georgia.

LESS AND EXCEPT a small triangular tract off the north side of the above described property which is identified as Tract No. 3 on the plat of the property of the Estate of J. W. DeLong, a copy of which is recorded in Plat Book 25, page 81, aforesaid records.

The grantor herein covenants and agrees to pay all taxes for the year 1961.

BLLIP into

Filed and Recorded Office Secretary of State B423
JUN 5 1963
The ...... day of ...... 19.... in Book
Deeds IV Part I Pages 24-26
002421

134

TO HAVE AND TO HOLD the said tract or parcel of land, with all and singular the rights, members and appurtenances thereof, to the same being, belonging, or in anywise appertaining, to the only proper use, benefit and behoof of the said Grantee forever in FEE SIMPLE.

AND THE SAID Grantor will warrant and forever defend the right and title to the above described property unto the said Grantee against the claims of all persons whomsoever.

IN WITNESS WHEREOF, the Grantor has signed and sealed this deed, the day and year above written.

Signed, sealed and delivered in presence of:

Andrew H. Beldin — Mrs Cora Bell Parks Coker
MRS CORA BELL PARKS COKER (Seal)

E. L. Howell — (Seal)

E. L. HOWELL Notary Public, Georgia State at Large
My Commission Expires ...
NOTARY PUBLIC FULTON COUNTY, GA.

Secretary of State
Deed Record Number
2421

WARRANTY DEED

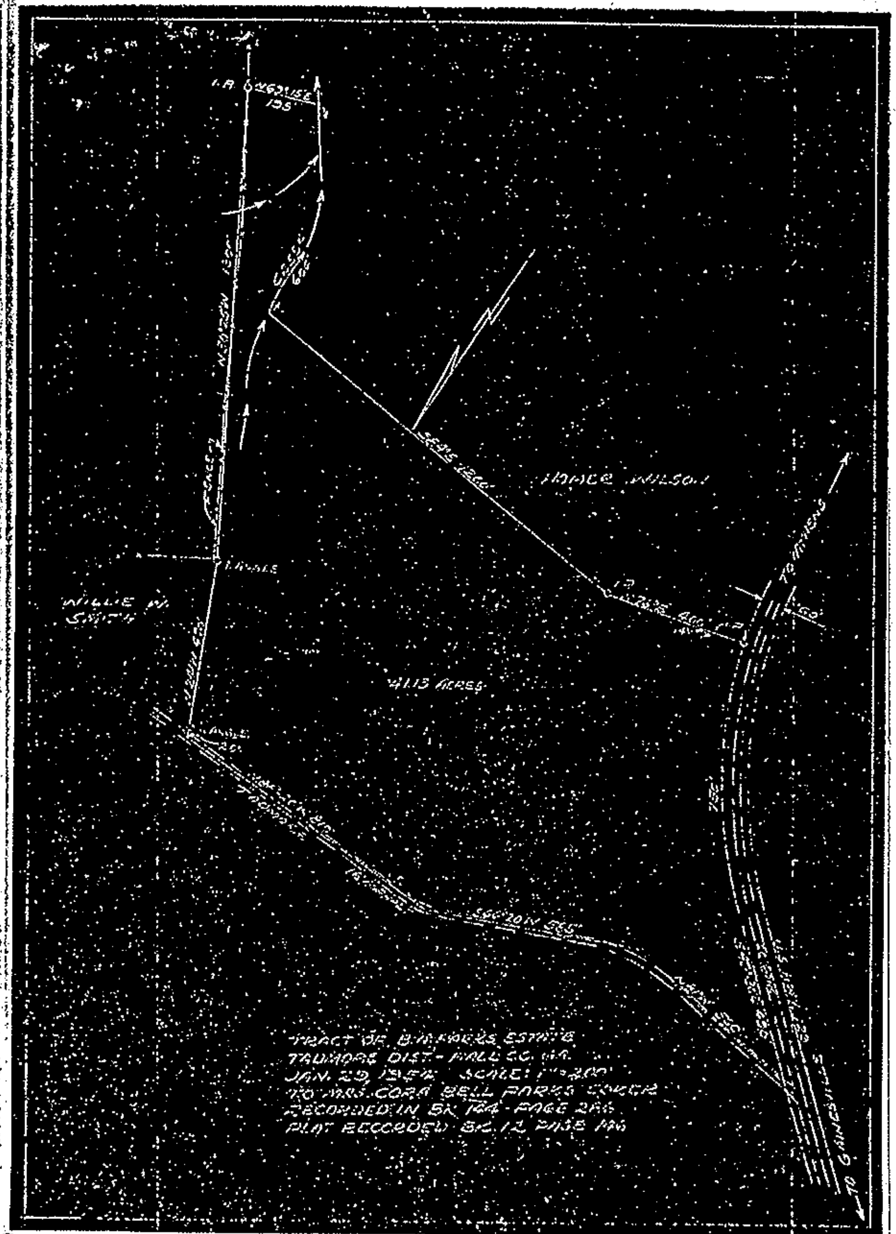
FROM

TO

GEORGIA, Hall County,
Clerk's Office, Superior Court
Filed for Record 18 day of August 1961, at 4:15 P.M., and Recorded in Deed Book 237 Folio 133-134
August 19 1961
H. Arney Waters Clerk.

Lawyers Title Insurance Corporation
ATLANTA BRANCH OFFICE
TITLE BUILDING
ATLANTA, GEORGIA

$$ 002421


TRACT OF B.M. PARKS ESTATE
TADMORE DIST - HALL CO. GA.
SCALE: 1"=200'
TO MRS. CORA BELL PARKS
RECORDED IN BK 164 - PAGE
PLAT RECORDED BK. 12 PAGE
HORACE WILSON
WILLIE M. SMITH
TO ATHENS
TO GAINESVILLE

Appendix II – 2014 Groundwater Analytical Data

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 05, 2014

Steve Diamond
S&ME, Inc.
3380 Townpoint Drive
Kennesaw GA 30144

TEL: (770) 919-0969
FAX: (770) 919-2360

RE: GDOT Gainesville

Dear Steve Diamond: Order No: 1410O23

Analytical Environmental Services, Inc. received 5 samples on 10/28/2014 7:45:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

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

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

Dorothy deBruyn
Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

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

CHAIN OF CUSTODY

Work Order: 1412023

Date: 10/27/14 Page 1 of 1

COMPANY	ADDRESS
SFME, Inc.	3380 Town Point Drive Suite 140 Kennesaw, GA 30144
PHONE: 770-919-0969	FAX: 770-919-2360
SAMPLED BY: ADAM RILEY, EDDIE SORRELL Jr.	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOCs (8260B)	Total Metals (6010C)	Sulfate, Chloride (9056A)	Hex Chromium (3500 CR)	No # of Containers	REMARKS
	PRESERVATION (See codes)						HCl +I	HNO3 +I	I	I		
1	MW-13	10/27/14	1605	X		GW	X	X	X	X	5	
2	MW-2D	10/27/14	1705	X		GW	X				2	
3												
4	EB - Set #1	10/27/14	1840	X			X				2	
5	EB - Set #2	10/27/14	1845	X			X				2	
6												
7												
8												
9												
10												
11												
12												
13	Trip Blank	10/27/14									2	
14	Temp Blank	10/27/14									1	

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

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	10/27/14 1855	1:	1856 10/27/14
2:	10/27/14	2:	10/28/14 7:45
3:		3:	

PROJECT INFORMATION

PROJECT NAME: GADOT Gainesville

PROJECT #: 4468-14-073

SITE ADDRESS: District Office 2505 Athens Hwy, Gainesville, GA

SEND REPORT TO: Steve Diamond / Chris Miller

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#: 4468-14-073

RECEIPT

Total # of Containers: 14

Turnaround Time Request

- (●) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other

STATE PROGRAM (if any): HSRA

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

DATA PACKAGE: (I) II III IV

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT / / VIA:

IN / VIA:

(CLIENT) FedEx UPS MAIL COURIER GREYHOUND OTHER

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

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

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

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 5-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-13
Project Name:	GDOT Gainesville	**Collection Date:**	10/27/2014 4:05:00 PM
Lab ID:	1410O23-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
1,1,1-Trichloroethane	2000	50		ug/L	198473	10	11/03/2014 17:00	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
1,1,2-Trichloroethane	23	5.0		ug/L	198473	1	10/30/2014 21:45	MD
1,1-Dichloroethane	220	50		ug/L	198473	10	11/03/2014 17:00	MD
1,1-Dichloroethene	610	50		ug/L	198473	10	11/03/2014 17:00	MD
1,1-Dichloropropene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
1,2,3-Trichloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
1,2-Dibromoethane	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
1,2-Dichloroethane	6.8	5.0		ug/L	198473	1	10/30/2014 21:45	MD
1,2-Dichloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
1,3-Dichloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
1,4-Dioxane	BRL	150		ug/L	198473	1	10/30/2014 21:45	MD
2,2-Dichloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
2-Butanone	BRL	50		ug/L	198473	1	10/30/2014 21:45	MD
2-Chlorotoluene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
4-Chlorotoluene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
4-Isopropyltoluene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
Acetone	BRL	50		ug/L	198473	1	10/30/2014 21:45	MD
Benzene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
Bromobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
Bromochloromethane	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
Bromodichloromethane	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
Bromoform	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
Bromomethane	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
Carbon tetrachloride	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
Chlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
Chloroethane	BRL	10		ug/L	198473	1	10/30/2014 21:45	MD
Chloroform	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
Chloromethane	BRL	10		ug/L	198473	1	10/30/2014 21:45	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
Cyclohexane	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
Dibromochloromethane	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 5-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-13
Project Name:	GDOT Gainesville	**Collection Date:**	10/27/2014 4:05:00 PM
Lab ID:	1410O23-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Dibromomethane	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
Dichlorodifluoromethane	BRL	10		ug/L	198473	1	10/30/2014 21:45	MD
Ethylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
Hexachlorobutadiene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
Isopropylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
m,p-Xylene	BRL	10		ug/L	198473	1	10/30/2014 21:45	MD
Methylene chloride	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
n-Butylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
n-Propylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
Naphthalene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
o-Xylene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
sec-Butylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
Styrene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
tert-Butylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
Tetrachloroethene	12	5.0		ug/L	198473	1	10/30/2014 21:45	MD
Toluene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
Trichloroethene	25	5.0		ug/L	198473	1	10/30/2014 21:45	MD
Trichlorofluoromethane	BRL	5.0		ug/L	198473	1	10/30/2014 21:45	MD
Vinyl chloride	BRL	2.0		ug/L	198473	1	10/30/2014 21:45	MD
Surr: 4-Bromofluorobenzene	87.4	70.6-123		%REC	198473	10	11/03/2014 17:00	MD
Surr: 4-Bromofluorobenzene	88.1	70.6-123		%REC	198473	1	10/30/2014 21:45	MD
Surr: Dibromofluoromethane	108	78.7-124		%REC	198473	10	11/03/2014 17:00	MD
Surr: Dibromofluoromethane	123	78.7-124		%REC	198473	1	10/30/2014 21:45	MD
Surr: Toluene-d8	99.6	81.3-120		%REC	198473	1	10/30/2014 21:45	MD
Surr: Toluene-d8	98.1	81.3-120		%REC	198473	10	11/03/2014 17:00	MD
ION SCAN SW9056A								
Chloride	47	1.0		mg/L	R279296	1	10/29/2014 00:50	YS
Sulfate	6.0	1.0		mg/L	R279296	1	10/29/2014 00:50	YS
Hexavalent Chromium SM3500-Cr B								
Chromium, Hexavalent	BRL	0.010		mg/L	R278814	1	10/28/2014 12:55	AB
METALS, TOTAL SW6010C				**(SW3010A)**				
Lead	BRL	0.0100		mg/L	198453	1	10/30/2014 20:21	JL

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 5-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-2D
Project Name:	GDOT Gainesville	**Collection Date:**	10/27/2014 5:05:00 PM
Lab ID:	1410O23-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
1,1,1-Trichloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
1,1-Dichloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
1,1-Dichloroethene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
1,1-Dichloropropene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
1,2,3-Trichloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
1,2-Dibromoethane	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
1,2-Dichloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
1,2-Dichloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
1,3-Dichloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
1,4-Dioxane	BRL	150		ug/L	198473	1	10/30/2014 08:53	MD
2,2-Dichloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
2-Butanone	BRL	50		ug/L	198473	1	10/30/2014 08:53	MD
2-Chlorotoluene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
4-Chlorotoluene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
4-Isopropyltoluene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
Acetone	BRL	50		ug/L	198473	1	10/30/2014 08:53	MD
Benzene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
Bromobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
Bromochloromethane	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
Bromodichloromethane	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
Bromoform	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
Bromomethane	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
Carbon tetrachloride	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
Chlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
Chloroethane	BRL	10		ug/L	198473	1	10/30/2014 08:53	MD
Chloroform	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
Chloromethane	BRL	10		ug/L	198473	1	10/30/2014 08:53	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
Cyclohexane	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
Dibromochloromethane	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 5-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-2D
Project Name:	GDOT Gainesville	**Collection Date:**	10/27/2014 5:05:00 PM
Lab ID:	1410O23-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Dibromomethane	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
Dichlorodifluoromethane	BRL	10		ug/L	198473	1	10/30/2014 08:53	MD
Ethylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
Hexachlorobutadiene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
Isopropylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
m,p-Xylene	BRL	10		ug/L	198473	1	10/30/2014 08:53	MD
Methylene chloride	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
n-Butylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
n-Propylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
Naphthalene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
o-Xylene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
sec-Butylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
Styrene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
tert-Butylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
Tetrachloroethene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
Toluene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
Trichloroethene	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
Trichlorofluoromethane	BRL	5.0		ug/L	198473	1	10/30/2014 08:53	MD
Vinyl chloride	BRL	2.0		ug/L	198473	1	10/30/2014 08:53	MD
Surr: 4-Bromofluorobenzene	84.3	70.6-123		%REC	198473	1	10/30/2014 08:53	MD
Surr: Dibromofluoromethane	103	78.7-124		%REC	198473	1	10/30/2014 08:53	MD
Surr: Toluene-d8	98.6	81.3-120		%REC	198473	1	10/30/2014 08:53	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 5-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	EB-SET #1
Project Name:	GDOT Gainesville	**Collection Date:**	10/27/2014 6:40:00 PM
Lab ID:	1410O23-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
1,1,1-Trichloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
1,1-Dichloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
1,1-Dichloroethene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
1,1-Dichloropropene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
1,2,3-Trichloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
1,2-Dibromoethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
1,2-Dichloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
1,2-Dichloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
1,3-Dichloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
1,4-Dioxane	BRL	150		ug/L	198473	1	10/30/2014 09:19	MD
2,2-Dichloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
2-Butanone	BRL	50		ug/L	198473	1	10/30/2014 09:19	MD
2-Chlorotoluene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
4-Chlorotoluene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
4-Isopropyltoluene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
Acetone	BRL	50		ug/L	198473	1	10/30/2014 09:19	MD
Benzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
Bromobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
Bromochloromethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
Bromodichloromethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
Bromoform	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
Bromomethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
Carbon tetrachloride	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
Chlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
Chloroethane	BRL	10		ug/L	198473	1	10/30/2014 09:19	MD
Chloroform	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
Chloromethane	BRL	10		ug/L	198473	1	10/30/2014 09:19	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
Cyclohexane	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
Dibromochloromethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 5-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	EB-SET #1
Project Name:	GDOT Gainesville	**Collection Date:**	10/27/2014 6:40:00 PM
Lab ID:	1410O23-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Dibromomethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
Dichlorodifluoromethane	BRL	10		ug/L	198473	1	10/30/2014 09:19	MD
Ethylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
Hexachlorobutadiene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
Isopropylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
m,p-Xylene	BRL	10		ug/L	198473	1	10/30/2014 09:19	MD
Methylene chloride	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
n-Butylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
n-Propylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
Naphthalene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
o-Xylene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
sec-Butylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
Styrene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
tert-Butylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
Tetrachloroethene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
Toluene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
Trichloroethene	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
Trichlorofluoromethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:19	MD
Vinyl chloride	BRL	2.0		ug/L	198473	1	10/30/2014 09:19	MD
Surr: 4-Bromofluorobenzene	88.7	70.6-123		%REC	198473	1	10/30/2014 09:19	MD
Surr: Dibromofluoromethane	101	78.7-124		%REC	198473	1	10/30/2014 09:19	MD
Surr: Toluene-d8	98	81.3-120		%REC	198473	1	10/30/2014 09:19	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 5-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	EB-SET #2
Project Name:	GDOT Gainesville	**Collection Date:**	10/27/2014 6:45:00 PM
Lab ID:	1410O23-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
1,1,1-Trichloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
1,1-Dichloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
1,1-Dichloroethene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
1,1-Dichloropropene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
1,2,3-Trichloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
1,2-Dibromoethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
1,2-Dichloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
1,2-Dichloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
1,3-Dichloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
1,4-Dioxane	BRL	150		ug/L	198473	1	10/30/2014 09:46	MD
2,2-Dichloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
2-Butanone	BRL	50		ug/L	198473	1	10/30/2014 09:46	MD
2-Chlorotoluene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
4-Chlorotoluene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
4-Isopropyltoluene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
Acetone	BRL	50		ug/L	198473	1	10/30/2014 09:46	MD
Benzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
Bromobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
Bromochloromethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
Bromodichloromethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
Bromoform	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
Bromomethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
Carbon tetrachloride	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
Chlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
Chloroethane	BRL	10		ug/L	198473	1	10/30/2014 09:46	MD
Chloroform	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
Chloromethane	BRL	10		ug/L	198473	1	10/30/2014 09:46	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
Cyclohexane	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
Dibromochloromethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 5-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	EB-SET #2
Project Name:	GDOT Gainesville	**Collection Date:**	10/27/2014 6:45:00 PM
Lab ID:	1410O23-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Dibromomethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
Dichlorodifluoromethane	BRL	10		ug/L	198473	1	10/30/2014 09:46	MD
Ethylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
Hexachlorobutadiene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
Isopropylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
m,p-Xylene	BRL	10		ug/L	198473	1	10/30/2014 09:46	MD
Methylene chloride	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
n-Butylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
n-Propylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
Naphthalene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
o-Xylene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
sec-Butylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
Styrene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
tert-Butylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
Tetrachloroethene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
Toluene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
Trichloroethene	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
Trichlorofluoromethane	BRL	5.0		ug/L	198473	1	10/30/2014 09:46	MD
Vinyl chloride	BRL	2.0		ug/L	198473	1	10/30/2014 09:46	MD
Surr: 4-Bromofluorobenzene	86.7	70.6-123		%REC	198473	1	10/30/2014 09:46	MD
Surr: Dibromofluoromethane	104	78.7-124		%REC	198473	1	10/30/2014 09:46	MD
Surr: Toluene-d8	101	81.3-120		%REC	198473	1	10/30/2014 09:46	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 5-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	GDOT Gainesville	**Collection Date:**	10/27/2014
Lab ID:	1410O23-005	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
1,1,1-Trichloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
1,1-Dichloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
1,1-Dichloroethene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
1,1-Dichloropropene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
1,2,3-Trichloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
1,2-Dibromoethane	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
1,2-Dichloroethane	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
1,2-Dichloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
1,3-Dichloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
1,4-Dioxane	BRL	150		ug/L	198473	1	10/30/2014 02:16	MD
2,2-Dichloropropane	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
2-Butanone	BRL	50		ug/L	198473	1	10/30/2014 02:16	MD
2-Chlorotoluene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
4-Chlorotoluene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
4-Isopropyltoluene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
Acetone	BRL	50		ug/L	198473	1	10/30/2014 02:16	MD
Benzene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
Bromobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
Bromochloromethane	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
Bromodichloromethane	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
Bromoform	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
Bromomethane	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
Carbon tetrachloride	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
Chlorobenzene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
Chloroethane	BRL	10		ug/L	198473	1	10/30/2014 02:16	MD
Chloroform	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
Chloromethane	BRL	10		ug/L	198473	1	10/30/2014 02:16	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
Cyclohexane	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
Dibromochloromethane	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 5-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	GDOT Gainesville	**Collection Date:**	10/27/2014
Lab ID:	1410O23-005	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Dibromomethane	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
Dichlorodifluoromethane	BRL	10		ug/L	198473	1	10/30/2014 02:16	MD
Ethylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
Hexachlorobutadiene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
Isopropylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
m,p-Xylene	BRL	10		ug/L	198473	1	10/30/2014 02:16	MD
Methylene chloride	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
n-Butylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
n-Propylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
Naphthalene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
o-Xylene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
sec-Butylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
Styrene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
tert-Butylbenzene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
Tetrachloroethene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
Toluene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
Trichloroethene	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
Trichlorofluoromethane	BRL	5.0		ug/L	198473	1	10/30/2014 02:16	MD
Vinyl chloride	BRL	2.0		ug/L	198473	1	10/30/2014 02:16	MD
Surr: 4-Bromofluorobenzene	85.6	70.6-123		%REC	198473	1	10/30/2014 02:16	MD
Surr: Dibromofluoromethane	103	78.7-124		%REC	198473	1	10/30/2014 02:16	MD
Surr: Toluene-d8	101	81.3-120		%REC	198473	1	10/30/2014 02:16	MD

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client S+ME Work Order Number 1418023

Checklist completed by [signature] 10/28/14
Signature Date

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

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

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

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

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

Cooler #1 3.2 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by JB

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

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

Analytical Environmental Services, Inc

Date: 5-Nov-14

Client: S&ME, Inc.
Project: GDOT Gainesville
Lab Order: 1410O23

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1410O23-001A	MW-13	10/27/2014 4:05:00PM	Groundwater	Volatile Organic Compounds by GC/MS		10/29/2014	10/30/2014
1410O23-001A	MW-13	10/27/2014 4:05:00PM	Groundwater	Volatile Organic Compounds by GC/MS		10/29/2014	11/03/2014
1410O23-001B	MW-13	10/27/2014 4:05:00PM	Groundwater	TOTAL METALS BY ICP		10/30/2014	10/30/2014
1410O23-001C	MW-13	10/27/2014 4:05:00PM	Groundwater	ION SCAN			10/29/2014
1410O23-001D	MW-13	10/27/2014 4:05:00PM	Groundwater	Hexavalent Chromium			10/28/2014
1410O23-002A	MW-2D	10/27/2014 5:05:00PM	Groundwater	Volatile Organic Compounds by GC/MS		10/29/2014	10/30/2014
1410O23-003A	EB-SET #1	10/27/2014 6:40:00PM	Groundwater	Volatile Organic Compounds by GC/MS		10/29/2014	10/30/2014
1410O23-004A	EB-SET #2	10/27/2014 6:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		10/29/2014	10/30/2014
1410O23-005A	TRIP BLANK	10/27/2014 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		10/29/2014	10/30/2014

Client: S&ME, Inc.
Project Name: GDOT Gainesville
Workorder: 1410O23

ANALYTICAL QC SUMMARY REPORT

BatchID: 198453

Sample ID: **MB-198453**	Client ID:				Units: **mg/L**	Prep Date: **10/30/2014**	Run No: **279029**
SampleType: **MBLK**	TestCode: **METALS, TOTAL** **SW6010C**				BatchID: **198453**	Analysis Date: **10/30/2014**	Seq No: **5898408**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	BRL	0.0100									

Sample ID: **LCS-198453**	Client ID:				Units: **mg/L**	Prep Date: **10/30/2014**	Run No: **279029**
SampleType: **LCS**	TestCode: **METALS, TOTAL** **SW6010C**				BatchID: **198453**	Analysis Date: **10/30/2014**	Seq No: **5898409**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	0.9956	0.0100	1.000		99.6	80	120				

Sample ID: **1410P43-002AMS**	Client ID:				Units: **mg/L**	Prep Date: **10/30/2014**	Run No: **279029**
SampleType: **MS**	TestCode: **METALS, TOTAL** **SW6010C**				BatchID: **198453**	Analysis Date: **10/30/2014**	Seq No: **5898411**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	0.9562	0.0100	1.000		95.6	75	125				

Sample ID: **1410P43-002AMSD**	Client ID:				Units: **mg/L**	Prep Date: **10/30/2014**	Run No: **279029**
SampleType: **MSD**	TestCode: **METALS, TOTAL** **SW6010C**				BatchID: **198453**	Analysis Date: **10/30/2014**	Seq No: **5898412**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	0.9542	0.0100	1.000		95.4	75	125	0.9562	0.209	20	

Qualifiers:

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

Client: S&ME, Inc.
Project Name: GDOT Gainesville
Workorder: 1410O23

ANALYTICAL QC SUMMARY REPORT

BatchID: 198473

Sample ID: **MB-198473** Client ID: Units: **ug/L** Prep Date: **10/29/2014** Run No: **278930**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **198473** Analysis Date: **10/30/2014** Seq No: **5896361**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	BRL	5.0									
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,1-Dichloropropene	BRL	5.0									
1,2,3-Trichlorobenzene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2,4-Trimethylbenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,3-Dichloropropane	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
1,4-Dioxane	BRL	150									
2,2-Dichloropropane	BRL	5.0									
2-Butanone	BRL	50									
2-Chlorotoluene	BRL	5.0									
4-Chlorotoluene	BRL	5.0									
4-Isopropyltoluene	BRL	5.0									
Acetone	BRL	50									
Benzene	BRL	5.0									

Qualifiers:

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

Client: S&ME, Inc.
Project Name: GDOT Gainesville
Workorder: 1410O23

ANALYTICAL QC SUMMARY REPORT

BatchID: 198473

Sample ID: **MB-198473** Client ID: Units: **ug/L** Prep Date: **10/29/2014** Run No: **278930**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **198473** Analysis Date: **10/30/2014** Seq No: **5896361**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Bromobenzene	BRL	5.0									
Bromochloromethane	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Hexachlorobutadiene	BRL	5.0									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methylene chloride	BRL	5.0									
n-Butylbenzene	BRL	5.0									
n-Propylbenzene	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
sec-Butylbenzene	BRL	5.0									
Styrene	BRL	5.0									

Qualifiers:

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

Client: S&ME, Inc.
Project Name: GDOT Gainesville
Workorder: 1410O23

ANALYTICAL QC SUMMARY REPORT

BatchID: 198473

Sample ID: **MB-198473** Client ID: Units: **ug/L** Prep Date: **10/29/2014** Run No: **278930**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **198473** Analysis Date: **10/30/2014** Seq No: **5896361**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
tert-Butylbenzene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	44.01	0	50.00		88.0	70.6	123				
Surr: Dibromofluoromethane	51.30	0	50.00		103	78.7	124				
Surr: Toluene-d8	48.94	0	50.00		97.9	81.3	120				

Sample ID: **LCS-198473** Client ID: Units: **ug/L** Prep Date: **10/29/2014** Run No: **278930**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **198473** Analysis Date: **10/30/2014** Seq No: **5896360**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	55.26	5.0	50.00		111	63.1	140				
Benzene	46.97	5.0	50.00		93.9	74.2	129				
Chlorobenzene	51.20	5.0	50.00		102	70	129				
Toluene	50.92	5.0	50.00		102	74.2	129				
Trichloroethene	48.84	5.0	50.00		97.7	71.2	135				
Surr: 4-Bromofluorobenzene	43.35	0	50.00		86.7	70.6	123				
Surr: Dibromofluoromethane	49.58	0	50.00		99.2	78.7	124				
Surr: Toluene-d8	50.23	0	50.00		100	81.3	120				

Qualifiers:

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

Client: S&ME, Inc.
Project Name: GDOT Gainesville
Workorder: 1410O23

ANALYTICAL QC SUMMARY REPORT

BatchID: 198473

Sample ID: **1410M12-007AMS** Client ID: Units: **ug/L** Prep Date: **10/29/2014** Run No: **278930**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **198473** Analysis Date: **10/30/2014** Seq No: **5896655**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	559.1	50	500.0		112	60.2	159				
Benzene	667.0	50	500.0	175.2	98.4	70.2	138				
Chlorobenzene	513.9	50	500.0		103	70.1	133				
Toluene	499.0	50	500.0		99.8	70	139				
Trichloroethene	495.3	50	500.0		99.1	70.1	144				
Surr: 4-Bromofluorobenzene	437.8	0	500.0		87.6	70.6	123				
Surr: Dibromofluoromethane	480.2	0	500.0		96.0	78.7	124				
Surr: Toluene-d8	472.5	0	500.0		94.5	81.3	120				

Sample ID: **1410M12-007AMSD** Client ID: Units: **ug/L** Prep Date: **10/29/2014** Run No: **278930**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **198473** Analysis Date: **10/30/2014** Seq No: **5896656**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	530.2	50	500.0		106	60.2	159	559.1	5.31	19.2	
Benzene	644.2	50	500.0	175.2	93.8	70.2	138	667.0	3.48	20	
Chlorobenzene	510.5	50	500.0		102	70.1	133	513.9	0.664	20	
Toluene	482.9	50	500.0		96.6	70	139	499.0	3.28	20	
Trichloroethene	475.2	50	500.0		95.0	70.1	144	495.3	4.14	20	
Surr: 4-Bromofluorobenzene	445.1	0	500.0		89.0	70.6	123	437.8	0	0	
Surr: Dibromofluoromethane	488.6	0	500.0		97.7	78.7	124	480.2	0	0	
Surr: Toluene-d8	481.3	0	500.0		96.3	81.3	120	472.5	0	0	

Qualifiers:

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

Client: S&ME, Inc.
Project Name: GDOT Gainesville
Workorder: 1410O23

ANALYTICAL QC SUMMARY REPORT

BatchID: R278814

Sample ID: **MB-R278814**	Client ID:			Units: **mg/L**	Prep Date:	Run No: **278814**
SampleType: **MBLK**	TestCode: **Hexavalent Chromium**	**SM3500-Cr B**		BatchID: **R278814**	Analysis Date: **10/28/2014**	Seq No: **5893292**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	BRL	0.010									

Sample ID: **LCS-R278814**	Client ID:			Units: **mg/L**	Prep Date:	Run No: **278814**
SampleType: **LCS**	TestCode: **Hexavalent Chromium**	**SM3500-Cr B**		BatchID: **R278814**	Analysis Date: **10/28/2014**	Seq No: **5893293**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.4698	0.010	0.5000		94.0	90	110				

Sample ID: **1410O23-001DMS**	Client ID: **MW-13**			Units: **mg/L**	Prep Date:	Run No: **278814**
SampleType: **MS**	TestCode: **Hexavalent Chromium**	**SM3500-Cr B**		BatchID: **R278814**	Analysis Date: **10/28/2014**	Seq No: **5893305**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.4767	0.010	0.5000		95.3	85	115				

Sample ID: **1410O23-001DMSD**	Client ID: **MW-13**			Units: **mg/L**	Prep Date:	Run No: **278814**
SampleType: **MSD**	TestCode: **Hexavalent Chromium**	**SM3500-Cr B**		BatchID: **R278814**	Analysis Date: **10/28/2014**	Seq No: **5893306**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.4762	0.010	0.5000		95.2	85	115	0.4767	0.105	30	

Qualifiers:

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

Client: S&ME, Inc.
Project Name: GDOT Gainesville
Workorder: 1410O23

ANALYTICAL QC SUMMARY REPORT

BatchID: R279296

Sample ID: **MB-R279296** Client ID: Units: **mg/L** Prep Date: Run No: **279296**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R279296** Analysis Date: **10/28/2014** Seq No: **5904290**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1.0									
Sulfate	BRL	1.0									

Sample ID: **LCS-R279296** Client ID: Units: **mg/L** Prep Date: Run No: **279296**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R279296** Analysis Date: **10/28/2014** Seq No: **5904289**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	10.84	1.0	10.00		108	90	110				
Sulfate	27.38	1.0	25.00		110	90	110				

Sample ID: **1410O43-002CMS** Client ID: Units: **mg/L** Prep Date: Run No: **279296**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R279296** Analysis Date: **10/29/2014** Seq No: **5904292**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	12.51	1.0	10.00	1.995	105	90	110				
Sulfate	47.65	1.0	25.00	22.12	102	90	110				

Sample ID: **1410O43-002CMSD** Client ID: Units: **mg/L** Prep Date: Run No: **279296**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R279296** Analysis Date: **10/29/2014** Seq No: **5904293**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	13.45	1.0	10.00	1.995	115	90	110	12.51	7.18	20	S
Sulfate	46.99	1.0	25.00	22.12	99.5	90	110	47.65	1.40	20	

Qualifiers:

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

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 06, 2014

Steve Diamond
S&ME, Inc.
3380 Townpoint Drive
Kennesaw GA 30144

TEL: (770) 919-0969
FAX: (770) 919-2360

RE: Gainsville DOT

Dear Steve Diamond: Order No: 1410Q31

Analytical Environmental Services, Inc. received 11 samples on 10/30/2014 7:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

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

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

Dorothy deBruyn
Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1410Q31

Date: 10/29/14 Page 1 of 1

COMPANY:	ADDRESS:
STME, Inc.	3380 Town Point Drive, Suite 140 Kennesaw, GA 30144
PHONE: (770) 919-0969	FAX: (770) 919-2360
SAMPLED BY: Adam Riley / Whitey Gann	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOCs (8260B)	Total Metals (6010C)	Hex. Chromium (3500 Cr B)	Sulfate, Chloride (9056A)	PRESERVATION (See codes) HCl+I	N+I	I	I	No # of Containers	REMARKS
1	MW-1	10/29/14	1425	X		GW	X	X	X	X					5	
2	MW-2	10/29/14	1650	X		GW	X	X	X	X					5	
3	MW-4	10/29/14	1400	X		GW	X	X	X	X					5	
4	MW-11	10/29/14	1251	X		GW	X	X	X	X					5	
5	MW-1D	10/28/14	1420	X		GW	X								2	
6	MW-4D	10/28/14	1233	X		GW	X								2	
7																
8	EB Set #1	10/28/14	1705	X		W	X								2	
9	EB Set #2	10/28/14	1700	X		W	X								2	
10	EB Set #1	10/29/14	1816	X		W	X								2	
11	EB-2	10/29/14	1730	X		W	X								2	
12																
13	Trip Blank														2	
14	Temp Blank														1	

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

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	10/30/14 0730	1:	10/30/14 7:30
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER

PROJECT INFORMATION

PROJECT NAME: GADOT Gainesville
PROJECT #: 4468-14-073
SITE ADDRESS: 2505 Athens Hwy Gainesville, GA
SEND REPORT TO: Steve Diamond
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#: 4468-14-073

RECEIPT
Total # of Containers: 35

Turnaround Time Request
- (●) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush **(auth req.)**
- ( ) Other

STATE PROGRAM (if any): HSRA
E-mail? (Y) / N; Fax? Y / N
DATA PACKAGE: (I) II III IV

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

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

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

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 6-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-1
Project Name:	Gainsville DOT	**Collection Date:**	10/29/2014 2:25:00 PM
Lab ID:	1410Q31-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,4-Dioxane	BRL	150		ug/L	198755	1	11/05/2014 20:56	NP
Dichlorodifluoromethane	BRL	10		ug/L	198755	1	11/05/2014 20:56	NP
Chloromethane	BRL	10		ug/L	198755	1	11/05/2014 20:56	NP
Vinyl chloride	BRL	2.0		ug/L	198755	1	11/05/2014 20:56	NP
Bromomethane	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
Chloroethane	BRL	10		ug/L	198755	1	11/05/2014 20:56	NP
Trichlorofluoromethane	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
1,1-Dichloroethene	130	5.0		ug/L	198755	1	11/05/2014 20:56	NP
Acetone	BRL	50		ug/L	198755	1	11/05/2014 20:56	NP
Methylene chloride	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
1,1-Dichloroethane	6.8	5.0		ug/L	198755	1	11/05/2014 20:56	NP
2,2-Dichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
2-Butanone	BRL	50		ug/L	198755	1	11/05/2014 20:56	NP
Chloroform	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
1,1,1-Trichloroethane	150	5.0		ug/L	198755	1	11/05/2014 20:56	NP
Cyclohexane	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
1,1-Dichloropropene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
Carbon tetrachloride	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
Benzene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
1,2-Dichloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
Trichloroethene	8.1	5.0		ug/L	198755	1	11/05/2014 20:56	NP
1,2-Dichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
Dibromomethane	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
Bromodichloromethane	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
Toluene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
Tetrachloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
1,3-Dichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
Dibromochloromethane	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
1,2-Dibromoethane	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
Chlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
Ethylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
m,p-Xylene	BRL	10		ug/L	198755	1	11/05/2014 20:56	NP
o-Xylene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
Styrene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
Bromoform	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-1
Project Name:	Gainsville DOT	**Collection Date:**	10/29/2014 2:25:00 PM
Lab ID:	1410Q31-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Bromochloromethane	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
1,2,3-Trichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
Isopropylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
Naphthalene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
2-Chlorotoluene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
4-Chlorotoluene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
tert-Butylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
sec-Butylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
4-Isopropyltoluene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
n-Propylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
Hexachlorobutadiene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
n-Butylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
Bromobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 20:56	NP
Surr: 4-Bromofluorobenzene	89	70.6-123		%REC	198755	1	11/05/2014 20:56	NP
Surr: Dibromofluoromethane	107	78.7-124		%REC	198755	1	11/05/2014 20:56	NP
Surr: Toluene-d8	97.1	81.3-120		%REC	198755	1	11/05/2014 20:56	NP
ION SCAN SW9056A								
Chloride	28	10		mg/L	R279179	10	10/31/2014 19:18	YS
Sulfate	42	1.0		mg/L	R279179	1	10/31/2014 14:31	YS
Hexavalent Chromium SM3500-Cr B								
Chromium, Hexavalent	0.033	0.010		mg/L	R279151	1	10/29/2014 17:05	AB
METALS, TOTAL SW6010C				**(SW3010A)**				
Lead	BRL	0.0100		mg/L	198557	1	11/03/2014 13:45	JL

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-2
Project Name:	Gainsville DOT	**Collection Date:**	10/29/2014 4:50:00 PM
Lab ID:	1410Q31-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	198755	1	11/05/2014 21:21	NP
Dichlorodifluoromethane	BRL	10		ug/L	198755	1	11/05/2014 21:21	NP
Chloromethane	BRL	10		ug/L	198755	1	11/05/2014 21:21	NP
Vinyl chloride	BRL	2.0		ug/L	198755	1	11/05/2014 21:21	NP
Bromomethane	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
Chloroethane	BRL	10		ug/L	198755	1	11/05/2014 21:21	NP
Trichlorofluoromethane	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
1,1-Dichloroethene	100	5.0		ug/L	198755	1	11/05/2014 21:21	NP
Acetone	BRL	50		ug/L	198755	1	11/05/2014 21:21	NP
Methylene chloride	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
1,1-Dichloroethane	6.0	5.0		ug/L	198755	1	11/05/2014 21:21	NP
2,2-Dichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
2-Butanone	BRL	50		ug/L	198755	1	11/05/2014 21:21	NP
Chloroform	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
1,1,1-Trichloroethane	96	5.0		ug/L	198755	1	11/05/2014 21:21	NP
Cyclohexane	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
1,1-Dichloropropene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
Carbon tetrachloride	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
Benzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
1,2-Dichloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
Trichloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
1,2-Dichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
Dibromomethane	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
Bromodichloromethane	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
Toluene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
Tetrachloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
1,3-Dichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
Dibromochloromethane	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
1,2-Dibromoethane	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
Chlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
Ethylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
m,p-Xylene	BRL	10		ug/L	198755	1	11/05/2014 21:21	NP
o-Xylene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
Styrene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
Bromoform	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-2
Project Name:	Gainsville DOT	**Collection Date:**	10/29/2014 4:50:00 PM
Lab ID:	1410Q31-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Bromochloromethane	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
1,2,3-Trichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
Isopropylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
Naphthalene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
2-Chlorotoluene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
4-Chlorotoluene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
tert-Butylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
sec-Butylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
4-Isopropyltoluene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
n-Propylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
Hexachlorobutadiene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
n-Butylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
Bromobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:21	NP
Surr: 4-Bromofluorobenzene	90.6	70.6-123		%REC	198755	1	11/05/2014 21:21	NP
Surr: Dibromofluoromethane	107	78.7-124		%REC	198755	1	11/05/2014 21:21	NP
Surr: Toluene-d8	97.3	81.3-120		%REC	198755	1	11/05/2014 21:21	NP
ION SCAN SW9056A								
Chloride	17	1.0		mg/L	R279179	1	10/31/2014 14:46	YS
Sulfate	32	1.0		mg/L	R279179	1	10/31/2014 14:46	YS
Hexavalent Chromium SM3500-Cr B								
Chromium, Hexavalent	0.021	0.010		mg/L	R279151	1	10/29/2014 17:05	AB
METALS, TOTAL SW6010C				**(SW3010A)**				
Lead	BRL	0.0100		mg/L	198557	1	11/03/2014 14:07	JL

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-4
Project Name:	Gainsville DOT	**Collection Date:**	10/29/2014 2:00:00 PM
Lab ID:	1410Q31-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,4-Dioxane	BRL	150		ug/L	198755	1	11/05/2014 21:46	NP
Dichlorodifluoromethane	BRL	10		ug/L	198755	1	11/05/2014 21:46	NP
Chloromethane	BRL	10		ug/L	198755	1	11/05/2014 21:46	NP
Vinyl chloride	BRL	2.0		ug/L	198755	1	11/05/2014 21:46	NP
Bromomethane	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
Chloroethane	BRL	10		ug/L	198755	1	11/05/2014 21:46	NP
Trichlorofluoromethane	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
1,1-Dichloroethene	170	5.0		ug/L	198755	1	11/05/2014 21:46	NP
Acetone	BRL	50		ug/L	198755	1	11/05/2014 21:46	NP
Methylene chloride	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
1,1-Dichloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
2,2-Dichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
2-Butanone	BRL	50		ug/L	198755	1	11/05/2014 21:46	NP
Chloroform	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
1,1,1-Trichloroethane	190	5.0		ug/L	198755	1	11/05/2014 21:46	NP
Cyclohexane	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
1,1-Dichloropropene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
Carbon tetrachloride	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
Benzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
1,2-Dichloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
Trichloroethene	7.0	5.0		ug/L	198755	1	11/05/2014 21:46	NP
1,2-Dichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
Dibromomethane	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
Bromodichloromethane	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
Toluene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
Tetrachloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
1,3-Dichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
Dibromochloromethane	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
1,2-Dibromoethane	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
Chlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
Ethylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
m,p-Xylene	BRL	10		ug/L	198755	1	11/05/2014 21:46	NP
o-Xylene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
Styrene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
Bromoform	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-4
Project Name:	Gainsville DOT	**Collection Date:**	10/29/2014 2:00:00 PM
Lab ID:	1410Q31-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Bromochloromethane	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
1,2,3-Trichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
Isopropylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
Naphthalene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
2-Chlorotoluene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
4-Chlorotoluene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
tert-Butylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
sec-Butylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
4-Isopropyltoluene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
n-Propylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
Hexachlorobutadiene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
n-Butylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
Bromobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 21:46	NP
Surr: 4-Bromofluorobenzene	89.8	70.6-123		%REC	198755	1	11/05/2014 21:46	NP
Surr: Dibromofluoromethane	107	78.7-124		%REC	198755	1	11/05/2014 21:46	NP
Surr: Toluene-d8	97.2	81.3-120		%REC	198755	1	11/05/2014 21:46	NP
ION SCAN SW9056A								
Chloride	26	10		mg/L	R279179	10	11/03/2014 17:54	YS
Sulfate	BRL	1.0		mg/L	R279179	1	10/31/2014 15:01	YS
Hexavalent Chromium SM3500-Cr B								
Chromium, Hexavalent	BRL	0.050		mg/L	R279151	5	10/29/2014 17:05	AB
METALS, TOTAL SW6010C				**(SW3010A)**				
Lead	0.0247	0.0100		mg/L	198557	1	11/03/2014 14:17	JL

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-11
Project Name:	Gainsville DOT	**Collection Date:**	10/29/2014 12:51:00 PM
Lab ID:	1410Q31-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	198755	1	11/05/2014 22:10	NP
Dichlorodifluoromethane	BRL	10		ug/L	198755	1	11/05/2014 22:10	NP
Chloromethane	BRL	10		ug/L	198755	1	11/05/2014 22:10	NP
Vinyl chloride	BRL	2.0		ug/L	198755	1	11/05/2014 22:10	NP
Bromomethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
Chloroethane	BRL	10		ug/L	198755	1	11/05/2014 22:10	NP
Trichlorofluoromethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
1,1-Dichloroethene	60	5.0		ug/L	198755	1	11/05/2014 22:10	NP
Acetone	BRL	50		ug/L	198755	1	11/05/2014 22:10	NP
Methylene chloride	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
1,1-Dichloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
2,2-Dichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
2-Butanone	BRL	50		ug/L	198755	1	11/05/2014 22:10	NP
Chloroform	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
1,1,1-Trichloroethane	51	5.0		ug/L	198755	1	11/05/2014 22:10	NP
Cyclohexane	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
1,1-Dichloropropene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
Carbon tetrachloride	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
Benzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
1,2-Dichloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
Trichloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
1,2-Dichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
Dibromomethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
Bromodichloromethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
Toluene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
Tetrachloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
1,3-Dichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
Dibromochloromethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
1,2-Dibromoethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
Chlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
Ethylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
m,p-Xylene	BRL	10		ug/L	198755	1	11/05/2014 22:10	NP
o-Xylene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
Styrene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
Bromoform	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-11
Project Name:	Gainsville DOT	**Collection Date:**	10/29/2014 12:51:00 PM
Lab ID:	1410Q31-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Bromochloromethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
1,2,3-Trichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
Isopropylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
Naphthalene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
2-Chlorotoluene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
4-Chlorotoluene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
tert-Butylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
sec-Butylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
4-Isopropyltoluene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
n-Propylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
Hexachlorobutadiene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
n-Butylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
Bromobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:10	NP
Surr: 4-Bromofluorobenzene	88.2	70.6-123		%REC	198755	1	11/05/2014 22:10	NP
Surr: Dibromofluoromethane	106	78.7-124		%REC	198755	1	11/05/2014 22:10	NP
Surr: Toluene-d8	96.5	81.3-120		%REC	198755	1	11/05/2014 22:10	NP
ION SCAN SW9056A								
Chloride	15	1.0		mg/L	R279179	1	10/31/2014 15:17	YS
Sulfate	2.4	1.0		mg/L	R279179	1	10/31/2014 15:17	YS
Hexavalent Chromium SM3500-Cr B								
Chromium, Hexavalent	BRL	0.010		mg/L	R279151	1	10/29/2014 17:05	AB
METALS, TOTAL SW6010C				**(SW3010A)**				
Lead	BRL	0.0100		mg/L	198557	1	11/03/2014 14:21	JL

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-1D
Project Name:	Gainsville DOT	**Collection Date:**	10/28/2014 2:20:00 PM
Lab ID:	1410Q31-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	198755	1	11/05/2014 22:35	NP
Dichlorodifluoromethane	BRL	10		ug/L	198755	1	11/05/2014 22:35	NP
Chloromethane	BRL	10		ug/L	198755	1	11/05/2014 22:35	NP
Vinyl chloride	BRL	2.0		ug/L	198755	1	11/05/2014 22:35	NP
Bromomethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
Chloroethane	BRL	10		ug/L	198755	1	11/05/2014 22:35	NP
Trichlorofluoromethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
1,1-Dichloroethene	16	5.0		ug/L	198755	1	11/05/2014 22:35	NP
Acetone	BRL	50		ug/L	198755	1	11/05/2014 22:35	NP
Methylene chloride	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
1,1-Dichloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
2,2-Dichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
2-Butanone	BRL	50		ug/L	198755	1	11/05/2014 22:35	NP
Chloroform	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
1,1,1-Trichloroethane	5.5	5.0		ug/L	198755	1	11/05/2014 22:35	NP
Cyclohexane	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
1,1-Dichloropropene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
Carbon tetrachloride	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
Benzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
1,2-Dichloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
Trichloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
1,2-Dichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
Dibromomethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
Bromodichloromethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
Toluene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
Tetrachloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
1,3-Dichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
Dibromochloromethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
1,2-Dibromoethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
Chlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
Ethylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
m,p-Xylene	BRL	10		ug/L	198755	1	11/05/2014 22:35	NP
o-Xylene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
Styrene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
Bromoform	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-1D
Project Name:	Gainsville DOT	**Collection Date:**	10/28/2014 2:20:00 PM
Lab ID:	1410Q31-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Bromochloromethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
1,2,3-Trichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
Isopropylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
Naphthalene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
2-Chlorotoluene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
4-Chlorotoluene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
tert-Butylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
sec-Butylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
4-Isopropyltoluene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
n-Propylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
Hexachlorobutadiene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
n-Butylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
Bromobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:35	NP
Surr: 4-Bromofluorobenzene	88.1	70.6-123		%REC	198755	1	11/05/2014 22:35	NP
Surr: Dibromofluoromethane	104	78.7-124		%REC	198755	1	11/05/2014 22:35	NP
Surr: Toluene-d8	96.5	81.3-120		%REC	198755	1	11/05/2014 22:35	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-4D
Project Name:	Gainsville DOT	**Collection Date:**	10/28/2014 12:33:00 PM
Lab ID:	1410Q31-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	198755	1	11/05/2014 22:59	NP
Dichlorodifluoromethane	BRL	10		ug/L	198755	1	11/05/2014 22:59	NP
Chloromethane	BRL	10		ug/L	198755	1	11/05/2014 22:59	NP
Vinyl chloride	BRL	2.0		ug/L	198755	1	11/05/2014 22:59	NP
Bromomethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
Chloroethane	BRL	10		ug/L	198755	1	11/05/2014 22:59	NP
Trichlorofluoromethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
1,1-Dichloroethene	9.7	5.0		ug/L	198755	1	11/05/2014 22:59	NP
Acetone	BRL	50		ug/L	198755	1	11/05/2014 22:59	NP
Methylene chloride	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
1,1-Dichloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
2,2-Dichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
2-Butanone	BRL	50		ug/L	198755	1	11/05/2014 22:59	NP
Chloroform	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
1,1,1-Trichloroethane	31	5.0		ug/L	198755	1	11/05/2014 22:59	NP
Cyclohexane	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
1,1-Dichloropropene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
Carbon tetrachloride	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
Benzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
1,2-Dichloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
Trichloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
1,2-Dichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
Dibromomethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
Bromodichloromethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
Toluene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
Tetrachloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
1,3-Dichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
Dibromochloromethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
1,2-Dibromoethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
Chlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
Ethylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
m,p-Xylene	BRL	10		ug/L	198755	1	11/05/2014 22:59	NP
o-Xylene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
Styrene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
Bromoform	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-4D
Project Name:	Gainsville DOT	**Collection Date:**	10/28/2014 12:33:00 PM
Lab ID:	1410Q31-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Bromochloromethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
1,2,3-Trichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
Isopropylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
Naphthalene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
2-Chlorotoluene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
4-Chlorotoluene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
tert-Butylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
sec-Butylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
4-Isopropyltoluene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
n-Propylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
Hexachlorobutadiene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
n-Butylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
Bromobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 22:59	NP
Surr: 4-Bromofluorobenzene	89.6	70.6-123		%REC	198755	1	11/05/2014 22:59	NP
Surr: Dibromofluoromethane	108	78.7-124		%REC	198755	1	11/05/2014 22:59	NP
Surr: Toluene-d8	97.6	81.3-120		%REC	198755	1	11/05/2014 22:59	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	EB SET #1
Project Name:	Gainsville DOT	**Collection Date:**	10/28/2014 5:05:00 PM
Lab ID:	1410Q31-007	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,4-Dioxane	BRL	150		ug/L	198755	1	11/05/2014 23:24	NP
Dichlorodifluoromethane	BRL	10		ug/L	198755	1	11/05/2014 23:24	NP
Chloromethane	BRL	10		ug/L	198755	1	11/05/2014 23:24	NP
Vinyl chloride	BRL	2.0		ug/L	198755	1	11/05/2014 23:24	NP
Bromomethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
Chloroethane	BRL	10		ug/L	198755	1	11/05/2014 23:24	NP
Trichlorofluoromethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
1,1-Dichloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
Acetone	BRL	50		ug/L	198755	1	11/05/2014 23:24	NP
Methylene chloride	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
1,1-Dichloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
2,2-Dichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
2-Butanone	BRL	50		ug/L	198755	1	11/05/2014 23:24	NP
Chloroform	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
1,1,1-Trichloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
Cyclohexane	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
1,1-Dichloropropene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
Carbon tetrachloride	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
Benzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
1,2-Dichloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
Trichloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
1,2-Dichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
Dibromomethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
Bromodichloromethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
Toluene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
Tetrachloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
1,3-Dichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
Dibromochloromethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
1,2-Dibromoethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
Chlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
Ethylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
m,p-Xylene	BRL	10		ug/L	198755	1	11/05/2014 23:24	NP
o-Xylene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
Styrene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
Bromoform	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	EB SET #1
Project Name:	Gainsville DOT	**Collection Date:**	10/28/2014 5:05:00 PM
Lab ID:	1410Q31-007	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Bromochloromethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
1,2,3-Trichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
Isopropylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
Naphthalene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
2-Chlorotoluene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
4-Chlorotoluene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
tert-Butylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
sec-Butylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
4-Isopropyltoluene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
n-Propylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
Hexachlorobutadiene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
n-Butylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
Bromobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:24	NP
Surr: 4-Bromofluorobenzene	86.9	70.6-123		%REC	198755	1	11/05/2014 23:24	NP
Surr: Dibromofluoromethane	105	78.7-124		%REC	198755	1	11/05/2014 23:24	NP
Surr: Toluene-d8	98.9	81.3-120		%REC	198755	1	11/05/2014 23:24	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	EB SET #2
Project Name:	Gainsville DOT	**Collection Date:**	10/28/2014 5:00:00 PM
Lab ID:	1410Q31-008	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,4-Dioxane	BRL	150		ug/L	198755	1	11/05/2014 23:48	NP
Dichlorodifluoromethane	BRL	10		ug/L	198755	1	11/05/2014 23:48	NP
Chloromethane	BRL	10		ug/L	198755	1	11/05/2014 23:48	NP
Vinyl chloride	BRL	2.0		ug/L	198755	1	11/05/2014 23:48	NP
Bromomethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
Chloroethane	BRL	10		ug/L	198755	1	11/05/2014 23:48	NP
Trichlorofluoromethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
1,1-Dichloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
Acetone	BRL	50		ug/L	198755	1	11/05/2014 23:48	NP
Methylene chloride	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
1,1-Dichloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
2,2-Dichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
2-Butanone	BRL	50		ug/L	198755	1	11/05/2014 23:48	NP
Chloroform	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
1,1,1-Trichloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
Cyclohexane	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
1,1-Dichloropropene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
Carbon tetrachloride	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
Benzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
1,2-Dichloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
Trichloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
1,2-Dichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
Dibromomethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
Bromodichloromethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
Toluene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
Tetrachloroethene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
1,3-Dichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
Dibromochloromethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
1,2-Dibromoethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
Chlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
Ethylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
m,p-Xylene	BRL	10		ug/L	198755	1	11/05/2014 23:48	NP
o-Xylene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
Styrene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
Bromoform	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	EB SET #2
Project Name:	Gainsville DOT	**Collection Date:**	10/28/2014 5:00:00 PM
Lab ID:	1410Q31-008	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Bromochloromethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
1,2,3-Trichloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
Isopropylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
Naphthalene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
2-Chlorotoluene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
4-Chlorotoluene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
tert-Butylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
sec-Butylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
4-Isopropyltoluene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
n-Propylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
Hexachlorobutadiene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
n-Butylbenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
Bromobenzene	BRL	5.0		ug/L	198755	1	11/05/2014 23:48	NP
Surr: 4-Bromofluorobenzene	88.7	70.6-123		%REC	198755	1	11/05/2014 23:48	NP
Surr: Dibromofluoromethane	102	78.7-124		%REC	198755	1	11/05/2014 23:48	NP
Surr: Toluene-d8	97.6	81.3-120		%REC	198755	1	11/05/2014 23:48	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	EB SET #1
Project Name:	Gainsville DOT	**Collection Date:**	10/29/2014 6:16:00 PM
Lab ID:	1410Q31-009	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,4-Dioxane	BRL	150		ug/L	198755	1	11/06/2014 00:13	NP
Dichlorodifluoromethane	BRL	10		ug/L	198755	1	11/06/2014 00:13	NP
Chloromethane	BRL	10		ug/L	198755	1	11/06/2014 00:13	NP
Vinyl chloride	BRL	2.0		ug/L	198755	1	11/06/2014 00:13	NP
Bromomethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
Chloroethane	BRL	10		ug/L	198755	1	11/06/2014 00:13	NP
Trichlorofluoromethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
1,1-Dichloroethene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
Acetone	BRL	50		ug/L	198755	1	11/06/2014 00:13	NP
Methylene chloride	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
1,1-Dichloroethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
2,2-Dichloropropane	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
2-Butanone	BRL	50		ug/L	198755	1	11/06/2014 00:13	NP
Chloroform	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
1,1,1-Trichloroethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
Cyclohexane	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
1,1-Dichloropropene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
Carbon tetrachloride	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
Benzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
1,2-Dichloroethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
Trichloroethene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
1,2-Dichloropropane	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
Dibromomethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
Bromodichloromethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
Toluene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
Tetrachloroethene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
1,3-Dichloropropane	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
Dibromochloromethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
1,2-Dibromoethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
Chlorobenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
Ethylbenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
m,p-Xylene	BRL	10		ug/L	198755	1	11/06/2014 00:13	NP
o-Xylene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
Styrene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
Bromoform	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	EB SET #1
Project Name:	Gainsville DOT	**Collection Date:**	10/29/2014 6:16:00 PM
Lab ID:	1410Q31-009	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Bromochloromethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
1,2,3-Trichloropropane	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
Isopropylbenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
Naphthalene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
2-Chlorotoluene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
4-Chlorotoluene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
tert-Butylbenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
sec-Butylbenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
4-Isopropyltoluene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
n-Propylbenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
Hexachlorobutadiene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
n-Butylbenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
Bromobenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:13	NP
Surr: 4-Bromofluorobenzene	87.7	70.6-123		%REC	198755	1	11/06/2014 00:13	NP
Surr: Dibromofluoromethane	105	78.7-124		%REC	198755	1	11/06/2014 00:13	NP
Surr: Toluene-d8	98.2	81.3-120		%REC	198755	1	11/06/2014 00:13	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	EB-2
Project Name:	Gainsville DOT	**Collection Date:**	10/29/2014 5:30:00 PM
Lab ID:	1410Q31-010	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	198755	1	11/06/2014 00:37	NP
Dichlorodifluoromethane	BRL	10		ug/L	198755	1	11/06/2014 00:37	NP
Chloromethane	BRL	10		ug/L	198755	1	11/06/2014 00:37	NP
Vinyl chloride	BRL	2.0		ug/L	198755	1	11/06/2014 00:37	NP
Bromomethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
Chloroethane	BRL	10		ug/L	198755	1	11/06/2014 00:37	NP
Trichlorofluoromethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
1,1-Dichloroethene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
Acetone	BRL	50		ug/L	198755	1	11/06/2014 00:37	NP
Methylene chloride	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
1,1-Dichloroethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
2,2-Dichloropropane	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
2-Butanone	BRL	50		ug/L	198755	1	11/06/2014 00:37	NP
Chloroform	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
1,1,1-Trichloroethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
Cyclohexane	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
1,1-Dichloropropene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
Carbon tetrachloride	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
Benzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
1,2-Dichloroethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
Trichloroethene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
1,2-Dichloropropane	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
Dibromomethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
Bromodichloromethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
Toluene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
Tetrachloroethene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
1,3-Dichloropropane	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
Dibromochloromethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
1,2-Dibromoethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
Chlorobenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
Ethylbenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
m,p-Xylene	BRL	10		ug/L	198755	1	11/06/2014 00:37	NP
o-Xylene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
Styrene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
Bromoform	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	EB-2
Project Name:	Gainsville DOT	**Collection Date:**	10/29/2014 5:30:00 PM
Lab ID:	1410Q31-010	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Bromochloromethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
1,2,3-Trichloropropane	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
Isopropylbenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
Naphthalene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
2-Chlorotoluene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
4-Chlorotoluene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
tert-Butylbenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
sec-Butylbenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
4-Isopropyltoluene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
n-Propylbenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
Hexachlorobutadiene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
n-Butylbenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
Bromobenzene	BRL	5.0		ug/L	198755	1	11/06/2014 00:37	NP
Surr: 4-Bromofluorobenzene	87.3	70.6-123		%REC	198755	1	11/06/2014 00:37	NP
Surr: Dibromofluoromethane	107	78.7-124		%REC	198755	1	11/06/2014 00:37	NP
Surr: Toluene-d8	97.9	81.3-120		%REC	198755	1	11/06/2014 00:37	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	Gainsville DOT	**Collection Date:**	10/30/2014
Lab ID:	1410Q31-011	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,4-Dioxane	BRL	150		ug/L	198755	1	11/06/2014 14:00	GK
Dichlorodifluoromethane	BRL	10		ug/L	198755	1	11/06/2014 14:00	GK
Chloromethane	BRL	10		ug/L	198755	1	11/06/2014 14:00	GK
Vinyl chloride	BRL	2.0		ug/L	198755	1	11/06/2014 14:00	GK
Bromomethane	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
Chloroethane	BRL	10		ug/L	198755	1	11/06/2014 14:00	GK
Trichlorofluoromethane	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
1,1-Dichloroethene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
Acetone	BRL	50		ug/L	198755	1	11/06/2014 14:00	GK
Methylene chloride	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
1,1-Dichloroethane	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
2,2-Dichloropropane	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
2-Butanone	BRL	50		ug/L	198755	1	11/06/2014 14:00	GK
Chloroform	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
Cyclohexane	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
1,1-Dichloropropene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
Carbon tetrachloride	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
Benzene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
1,2-Dichloroethane	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
Trichloroethene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
1,2-Dichloropropane	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
Dibromomethane	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
Bromodichloromethane	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
Toluene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
Tetrachloroethene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
1,3-Dichloropropane	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
Dibromochloromethane	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
1,2-Dibromoethane	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
Chlorobenzene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
Ethylbenzene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
m,p-Xylene	BRL	10		ug/L	198755	1	11/06/2014 14:00	GK
o-Xylene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
Styrene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
Bromoform	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
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- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	Gainsville DOT	**Collection Date:**	10/30/2014
Lab ID:	1410Q31-011	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Bromochloromethane	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
1,2,3-Trichloropropane	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
Isopropylbenzene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
Naphthalene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
2-Chlorotoluene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
4-Chlorotoluene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
tert-Butylbenzene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
sec-Butylbenzene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
4-Isopropyltoluene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
n-Propylbenzene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
Hexachlorobutadiene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
n-Butylbenzene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
Bromobenzene	BRL	5.0		ug/L	198755	1	11/06/2014 14:00	GK
Surr: 4-Bromofluorobenzene	85.2	70.6-123		%REC	198755	1	11/06/2014 14:00	GK
Surr: Dibromofluoromethane	104	78.7-124		%REC	198755	1	11/06/2014 14:00	GK
Surr: Toluene-d8	98.3	81.3-120		%REC	198755	1	11/06/2014 14:00	GK

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client S+ME Work Order Number 1H1OQ31

Checklist completed by [signature] 10/30/14
Signature Date

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

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

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

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

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes ✓ No __

Cooler #1 3.4 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by [signature]

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\I\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Client: S&ME, Inc.
Project: Gainsville DOT
Lab Order: 1410Q31

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1410Q31-001A	MW-1	10/29/2014 2:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/05/2014	11/05/2014
1410Q31-001B	MW-1	10/29/2014 2:25:00PM	Groundwater	TOTAL METALS BY ICP		10/31/2014	11/03/2014
1410Q31-001C	MW-1	10/29/2014 2:25:00PM	Groundwater	Hexavalent Chromium			10/29/2014
1410Q31-001D	MW-1	10/29/2014 2:25:00PM	Groundwater	ION SCAN			10/31/2014
1410Q31-002A	MW-2	10/29/2014 4:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/05/2014	11/05/2014
1410Q31-002B	MW-2	10/29/2014 4:50:00PM	Groundwater	TOTAL METALS BY ICP		10/31/2014	11/03/2014
1410Q31-002C	MW-2	10/29/2014 4:50:00PM	Groundwater	Hexavalent Chromium			10/29/2014
1410Q31-002D	MW-2	10/29/2014 4:50:00PM	Groundwater	ION SCAN			10/31/2014
1410Q31-003A	MW-4	10/29/2014 2:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/05/2014	11/05/2014
1410Q31-003B	MW-4	10/29/2014 2:00:00PM	Groundwater	TOTAL METALS BY ICP		10/31/2014	11/03/2014
1410Q31-003C	MW-4	10/29/2014 2:00:00PM	Groundwater	Hexavalent Chromium			10/29/2014
1410Q31-003D	MW-4	10/29/2014 2:00:00PM	Groundwater	ION SCAN			10/31/2014
1410Q31-003D	MW-4	10/29/2014 2:00:00PM	Groundwater	ION SCAN			11/03/2014
1410Q31-004A	MW-11	10/29/2014 12:51:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/05/2014	11/05/2014
1410Q31-004B	MW-11	10/29/2014 12:51:00PM	Groundwater	TOTAL METALS BY ICP		10/31/2014	11/03/2014
1410Q31-004C	MW-11	10/29/2014 12:51:00PM	Groundwater	Hexavalent Chromium			10/29/2014
1410Q31-004D	MW-11	10/29/2014 12:51:00PM	Groundwater	ION SCAN			10/31/2014
1410Q31-005A	MW-1D	10/28/2014 2:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/05/2014	11/05/2014
1410Q31-006A	MW-4D	10/28/2014 12:33:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/05/2014	11/05/2014
1410Q31-007A	EB SET #1	10/28/2014 5:05:00PM	Aqueous	Volatile Organic Compounds by GC/MS		11/05/2014	11/05/2014
1410Q31-008A	EB SET #2	10/28/2014 5:00:00PM	Aqueous	Volatile Organic Compounds by GC/MS		11/05/2014	11/05/2014
1410Q31-009A	EB SET #1	10/29/2014 6:16:00PM	Aqueous	Volatile Organic Compounds by GC/MS		11/05/2014	11/06/2014
1410Q31-010A	EB-2	10/29/2014 5:30:00PM	Aqueous	Volatile Organic Compounds by GC/MS		11/05/2014	11/06/2014
1410Q31-011A	TRIP BLANK	10/30/2014 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		11/05/2014	11/05/2014
1410Q31-011A	TRIP BLANK	10/30/2014 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/05/2014	11/06/2014

Client: S&ME, Inc.
Project Name: Gainsville DOT
Workorder: 1410Q31

ANALYTICAL QC SUMMARY REPORT

BatchID: 198557

Sample ID: **MB-198557**	Client ID:			Units: **mg/L**	Prep Date: **10/31/2014**	Run No: **279233**
SampleType: **MBLK**	TestCode: **METALS, TOTAL**	**SW6010C**		BatchID: **198557**	Analysis Date: **11/03/2014**	Seq No: **5902643**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	BRL	0.0100									

Sample ID: **LCS-198557**	Client ID:			Units: **mg/L**	Prep Date: **10/31/2014**	Run No: **279233**
SampleType: **LCS**	TestCode: **METALS, TOTAL**	**SW6010C**		BatchID: **198557**	Analysis Date: **11/03/2014**	Seq No: **5902644**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	1.041	0.0100	1.000		104	80	120				

Sample ID: **1410Q31-001BMS**	Client ID: **MW-1**			Units: **mg/L**	Prep Date: **10/31/2014**	Run No: **279233**
SampleType: **MS**	TestCode: **METALS, TOTAL**	**SW6010C**		BatchID: **198557**	Analysis Date: **11/03/2014**	Seq No: **5902646**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	0.9947	0.0100	1.000		99.5	75	125				

Sample ID: **1410Q31-001BMSD**	Client ID: **MW-1**			Units: **mg/L**	Prep Date: **10/31/2014**	Run No: **279233**
SampleType: **MSD**	TestCode: **METALS, TOTAL**	**SW6010C**		BatchID: **198557**	Analysis Date: **11/03/2014**	Seq No: **5902647**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	0.9846	0.0100	1.000		98.5	75	125	0.9947	1.02	20	

Qualifiers:

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

Client: S&ME, Inc.
Project Name: Gainsville DOT
Workorder: 1410Q31

ANALYTICAL QC SUMMARY REPORT

BatchID: 198755

Sample ID: **MB-198755** Client ID: Units: **ug/L** Prep Date: **11/05/2014** Run No: **279326**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **198755** Analysis Date: **11/05/2014** Seq No: **5905704**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	BRL	5.0									
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,1-Dichloropropene	BRL	5.0									
1,2,3-Trichlorobenzene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2,4-Trimethylbenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,3-Dichloropropane	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
1,4-Dioxane	BRL	150									
2,2-Dichloropropane	BRL	5.0									
2-Butanone	BRL	50									
2-Chlorotoluene	BRL	5.0									
4-Chlorotoluene	BRL	5.0									
4-Isopropyltoluene	BRL	5.0									
Acetone	BRL	50									
Benzene	BRL	5.0									

Qualifiers:

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

Client: S&ME, Inc.
Project Name: Gainsville DOT
Workorder: 1410Q31

ANALYTICAL QC SUMMARY REPORT

BatchID: 198755

Sample ID: **MB-198755** Client ID: Units: **ug/L** Prep Date: **11/05/2014** Run No: **279326**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **198755** Analysis Date: **11/05/2014** Seq No: **5905704**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Bromobenzene	BRL	5.0									
Bromochloromethane	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Hexachlorobutadiene	BRL	5.0									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methylene chloride	BRL	5.0									
n-Butylbenzene	BRL	5.0									
n-Propylbenzene	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
sec-Butylbenzene	BRL	5.0									
Styrene	BRL	5.0									

Qualifiers:

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

Client: S&ME, Inc.
Project Name: Gainsville DOT
Workorder: 1410Q31

ANALYTICAL QC SUMMARY REPORT

BatchID: 198755

Sample ID: **MB-198755** Client ID: Units: **ug/L** Prep Date: **11/05/2014** Run No: **279326**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **198755** Analysis Date: **11/05/2014** Seq No: **5905704**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
tert-Butylbenzene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	42.58	0	50.00		85.2	70.6	123				
Surr: Dibromofluoromethane	52.73	0	50.00		105	78.7	124				
Surr: Toluene-d8	48.48	0	50.00		97.0	81.3	120				

Sample ID: **LCS-198755** Client ID: Units: **ug/L** Prep Date: **11/05/2014** Run No: **279326**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **198755** Analysis Date: **11/05/2014** Seq No: **5905703**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	59.19	5.0	50.00		118	63.1	140				
Benzene	53.43	5.0	50.00		107	74.2	129				
Chlorobenzene	54.50	5.0	50.00		109	70	129				
Toluene	53.27	5.0	50.00		107	74.2	129				
Trichloroethene	53.01	5.0	50.00		106	71.2	135				
Surr: 4-Bromofluorobenzene	43.60	0	50.00		87.2	70.6	123				
Surr: Dibromofluoromethane	53.05	0	50.00		106	78.7	124				
Surr: Toluene-d8	49.21	0	50.00		98.4	81.3	120				

Qualifiers:

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

Client: S&ME, Inc.
Project Name: Gainsville DOT
Workorder: 1410Q31

ANALYTICAL QC SUMMARY REPORT

BatchID: 198755

Sample ID: **1410P72-001AMS** Client ID:
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **ug/L** Prep Date: **11/05/2014** Run No: **279395**
BatchID: **198755** Analysis Date: **11/06/2014** Seq No: **5906671**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	58880	5000	50000		118	60.2	159				
Benzene	54340	5000	50000		109	70.2	138				
Chlorobenzene	55480	5000	50000		111	70.1	133				
Toluene	116900	5000	50000	67280	99.2	70	139				
Trichloroethene	53420	5000	50000		107	70.1	144				
Surr: 4-Bromofluorobenzene	42480	0	50000		85.0	70.6	123				
Surr: Dibromofluoromethane	52630	0	50000		105	78.7	124				
Surr: Toluene-d8	48690	0	50000		97.4	81.3	120				

Sample ID: **1410P72-001AMSD** Client ID:
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **ug/L** Prep Date: **11/05/2014** Run No: **279395**
BatchID: **198755** Analysis Date: **11/06/2014** Seq No: **5906672**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	57180	5000	50000		114	60.2	159	58880	2.93	19.2	
Benzene	52240	5000	50000		104	70.2	138	54340	3.94	20	
Chlorobenzene	52500	5000	50000		105	70.1	133	55480	5.52	20	
Toluene	112900	5000	50000	67280	91.2	70	139	116900	3.52	20	
Trichloroethene	50490	5000	50000		101	70.1	144	53420	5.64	20	
Surr: 4-Bromofluorobenzene	42870	0	50000		85.7	70.6	123	42480	0	0	
Surr: Dibromofluoromethane	53040	0	50000		106	78.7	124	52630	0	0	
Surr: Toluene-d8	50050	0	50000		100	81.3	120	48690	0	0	

Qualifiers:

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

Client: S&ME, Inc.
Project Name: Gainsville DOT
Workorder: 1410Q31

ANALYTICAL QC SUMMARY REPORT

BatchID: R279151

Sample ID: **MB-R279151**	Client ID:			Units: **mg/L**	Prep Date:	Run No: **279151**
SampleType: **MBLK**	TestCode: **Hexavalent Chromium**	**SM3500-Cr B**		BatchID: **R279151**	Analysis Date: **10/29/2014**	Seq No: **5901085**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	BRL	0.010									

Sample ID: **LCS-R279151**	Client ID:			Units: **mg/L**	Prep Date:	Run No: **279151**
SampleType: **LCS**	TestCode: **Hexavalent Chromium**	**SM3500-Cr B**		BatchID: **R279151**	Analysis Date: **10/29/2014**	Seq No: **5901086**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.4825	0.010	0.5000		96.5	90	110				

Sample ID: **1410P71-001DMS**	Client ID:			Units: **mg/L**	Prep Date:	Run No: **279151**
SampleType: **MS**	TestCode: **Hexavalent Chromium**	**SM3500-Cr B**		BatchID: **R279151**	Analysis Date: **10/29/2014**	Seq No: **5901095**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	2.282	0.050	2.500		91.3	85	115				H

Sample ID: **1410R05-002AMS**	Client ID:			Units: **mg/L**	Prep Date:	Run No: **279151**
SampleType: **MS**	TestCode: **Hexavalent Chromium**	**SM3500-Cr B**		BatchID: **R279151**	Analysis Date: **10/29/2014**	Seq No: **5901300**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.4796	0.010	0.5000		95.9	85	115				

Sample ID: **1410P71-001DMSD**	Client ID:			Units: **mg/L**	Prep Date:	Run No: **279151**
SampleType: **MSD**	TestCode: **Hexavalent Chromium**	**SM3500-Cr B**		BatchID: **R279151**	Analysis Date: **10/29/2014**	Seq No: **5901096**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	2.260	0.050	2.500		90.4	85	115	2.282	1.01	30	H

Qualifiers:

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

Client: S&ME, Inc.
Project Name: Gainsville DOT
Workorder: 1410Q31

ANALYTICAL QC SUMMARY REPORT

BatchID: R279151

Sample ID: **1410R05-002AMSD** Client ID: Units: **mg/L** Prep Date: Run No: **279151**
SampleType: **MSD** TestCode: **Hexavalent Chromium** **SM3500-Cr B** BatchID: **R279151** Analysis Date: **10/29/2014** Seq No: **5901301**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.4750	0.010	0.5000		95.0	85	115	0.4796	0.964	30	

Qualifiers:

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

Client: S&ME, Inc.
Project Name: Gainsville DOT
Workorder: 1410Q31

ANALYTICAL QC SUMMARY REPORT

BatchID: R279179

Sample ID: **MB-R279179** Client ID: Units: **mg/L** Prep Date: Run No: **279179**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R279179** Analysis Date: **10/31/2014** Seq No: **5901577**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1.0									
Sulfate	BRL	1.0									

Sample ID: **LCS-R279179** Client ID: Units: **mg/L** Prep Date: Run No: **279179**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R279179** Analysis Date: **10/31/2014** Seq No: **5901576**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	5.115	1.0	5.000		102	90	110				
Sulfate	23.41	1.0	25.00		93.7	90	110				

Sample ID: **1410Q31-004DMS** Client ID: **MW-11** Units: **mg/L** Prep Date: Run No: **279179**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R279179** Analysis Date: **10/31/2014** Seq No: **5901588**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	19.38	1.0	5.000	15.03	87.1	90	110				S
Sulfate	25.19	1.0	25.00	2.377	91.3	90	110				

Sample ID: **1410Q31-004DMSD** Client ID: **MW-11** Units: **mg/L** Prep Date: Run No: **279179**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R279179** Analysis Date: **10/31/2014** Seq No: **5901589**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	19.27	1.0	5.000	15.03	84.8	90	110	19.38	0.604	20	S
Sulfate	25.20	1.0	25.00	2.377	91.3	90	110	25.19	0.037	20	

Qualifiers:

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

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 07, 2014

Steve Diamond
S&ME, Inc.
3380 Townpoint Drive
Kennesaw GA 30144

TEL: (770) 919-0969
FAX: (770) 919-2360

RE: Gainsville DOT

Dear Steve Diamond: Order No: 1410R70

Analytical Environmental Services, Inc. received 9 samples on 10/31/2014 7:26:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

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

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

Dorothy deBruyn
Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

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

CHAIN OF CUSTODY

Work Order: 1410R70

Date: 10/30/14 Page 1 of 1

COMPANY	ADDRESS
SME, Inc.	3380 Town Point Drive, Suite 140 Kennesaw, GA 30144
PHONE: (770) 919-0969	FAX: (770) - 919-2360
SAMPLED BY: Adam Riley / Mitzy Gann	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOCs (8260B)	Total Metals (6010C)	Hex. Chromium (3500CR)	Sulfate, Chloride (9056A)	No # of Containers	REMARKS
	PRESERVATION (See codes)						HCl	H		N+4	H	
1	MW-6	10/30/14	1710	X		GW	X	X		X	X	5
2	MW-7	10/30/14	1527	X		GW	X					2
3	MW-8	10/30/14	1546	X		GW	X					2
4	MW-3D	10/30/14	1130	X		GW	X					2
5	MW-100	10/30/14	1600	X		GW	X					2
6	MW-X	10/30/14	1700	X		GW	X					2
7												
8	EB Set #1	10/30/14	1825	X		W	X					2
9	EB-2	10/30/14	1705	X		W	X					2
10												
11												
12												
13	Trip Blank	10/30/14										2
14	Temp Blank	10/30/14										1

ANALYSIS REQUESTED

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

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	10/31/14 0726	1: Cadaya Reeves	10/31/14 7:26a
2:		2:	
3:		3:	

PROJECT INFORMATION

PROJECT NAME: GADOT - Gainesville

PROJECT #: 4468-14-073

SITE ADDRESS: 2505 Athens Highway Gainesville, GA

SEND REPORT TO: Steve Diamond

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

(CLIENT) FedEx UPS MAIL COURIER GREYHOUND OTHER

RECEIPT

Total # of Containers: 17

Turnaround Time Request

- (●) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other

STATE PROGRAM (if any): HSRA

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

DATA PACKAGE: (I) II III IV

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

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

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

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 7-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-6
Project Name:	Gainsville DOT	**Collection Date:**	10/30/2014 5:10:00 PM
Lab ID:	1410R70-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
1,1,1-Trichloroethane	13	5.0		ug/L	198638	1	11/01/2014 20:39	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
1,1-Dichloroethane	7.4	5.0		ug/L	198638	1	11/01/2014 20:39	MD
1,1-Dichloroethene	17	5.0		ug/L	198638	1	11/01/2014 20:39	MD
1,1-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
1,2,3-Trichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
1,2-Dibromoethane	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
1,2-Dichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
1,2-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
1,3-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
1,4-Dioxane	BRL	150		ug/L	198638	1	11/01/2014 20:39	MD
2,2-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
2-Butanone	BRL	50		ug/L	198638	1	11/01/2014 20:39	MD
2-Chlorotoluene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
4-Chlorotoluene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
4-Isopropyltoluene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
Acetone	BRL	50		ug/L	198638	1	11/01/2014 20:39	MD
Benzene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
Bromobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
Bromochloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
Bromodichloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
Bromoform	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
Bromomethane	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
Carbon tetrachloride	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
Chlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
Chloroethane	BRL	10		ug/L	198638	1	11/01/2014 20:39	MD
Chloroform	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
Chloromethane	BRL	10		ug/L	198638	1	11/01/2014 20:39	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
Cyclohexane	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
Dibromochloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-6
Project Name:	Gainsville DOT	**Collection Date:**	10/30/2014 5:10:00 PM
Lab ID:	1410R70-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Dibromomethane	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
Dichlorodifluoromethane	BRL	10		ug/L	198638	1	11/01/2014 20:39	MD
Ethylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
Hexachlorobutadiene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
Isopropylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
m,p-Xylene	BRL	10		ug/L	198638	1	11/01/2014 20:39	MD
Methylene chloride	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
n-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
n-Propylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
Naphthalene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
o-Xylene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
sec-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
Styrene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
tert-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
Tetrachloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
Toluene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
Trichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
Trichlorofluoromethane	BRL	5.0		ug/L	198638	1	11/01/2014 20:39	MD
Vinyl chloride	BRL	2.0		ug/L	198638	1	11/01/2014 20:39	MD
Surr: 4-Bromofluorobenzene	83.7	70.6-123		%REC	198638	1	11/01/2014 20:39	MD
Surr: Dibromofluoromethane	96.4	78.7-124		%REC	198638	1	11/01/2014 20:39	MD
Surr: Toluene-d8	91.7	81.3-120		%REC	198638	1	11/01/2014 20:39	MD
ION SCAN SW9056A								
Chloride	14000	1000		ug/L	R279107	1	10/31/2014 12:50	YS
Sulfate	1400	1000		ug/L	R279107	1	10/31/2014 12:50	YS
Hexavalent Chromium SM3500-Cr B								
Chromium, Hexavalent	BRL	10.0		ug/L	R279161	1	10/31/2014 10:00	AB
METALS, TOTAL SW6010C				**(SW3010A)**				
Lead	30.8	10.0		ug/L	198632	1	11/04/2014 15:08	JL

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-7
Project Name:	Gainsville DOT	**Collection Date:**	10/30/2014 3:27:00 PM
Lab ID:	1410R70-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
1,1,1-Trichloroethane	55	5.0		ug/L	198638	1	11/01/2014 21:05	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
1,1-Dichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
1,1-Dichloroethene	46	5.0		ug/L	198638	1	11/01/2014 21:05	MD
1,1-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
1,2,3-Trichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
1,2-Dibromoethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
1,2-Dichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
1,2-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
1,3-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
1,4-Dioxane	BRL	150		ug/L	198638	1	11/01/2014 21:05	MD
2,2-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
2-Butanone	BRL	50		ug/L	198638	1	11/01/2014 21:05	MD
2-Chlorotoluene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
4-Chlorotoluene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
4-Isopropyltoluene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
Acetone	BRL	50		ug/L	198638	1	11/01/2014 21:05	MD
Benzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
Bromobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
Bromochloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
Bromodichloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
Bromoform	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
Bromomethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
Carbon tetrachloride	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
Chlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
Chloroethane	BRL	10		ug/L	198638	1	11/01/2014 21:05	MD
Chloroform	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
Chloromethane	BRL	10		ug/L	198638	1	11/01/2014 21:05	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
Cyclohexane	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
Dibromochloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-7
Project Name:	Gainsville DOT	**Collection Date:**	10/30/2014 3:27:00 PM
Lab ID:	1410R70-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Dibromomethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
Dichlorodifluoromethane	BRL	10		ug/L	198638	1	11/01/2014 21:05	MD
Ethylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
Hexachlorobutadiene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
Isopropylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
m,p-Xylene	BRL	10		ug/L	198638	1	11/01/2014 21:05	MD
Methylene chloride	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
n-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
n-Propylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
Naphthalene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
o-Xylene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
sec-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
Styrene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
tert-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
Tetrachloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
Toluene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
Trichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
Trichlorofluoromethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:05	MD
Vinyl chloride	BRL	2.0		ug/L	198638	1	11/01/2014 21:05	MD
Surr: 4-Bromofluorobenzene	79.1	70.6-123		%REC	198638	1	11/01/2014 21:05	MD
Surr: Dibromofluoromethane	99.7	78.7-124		%REC	198638	1	11/01/2014 21:05	MD
Surr: Toluene-d8	95.6	81.3-120		%REC	198638	1	11/01/2014 21:05	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-8
Project Name:	Gainsville DOT	**Collection Date:**	10/30/2014 3:46:00 PM
Lab ID:	1410R70-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
1,1,1-Trichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
1,1-Dichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
1,1-Dichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
1,1-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
1,2,3-Trichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
1,2-Dibromoethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
1,2-Dichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
1,2-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
1,3-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
1,4-Dioxane	BRL	150		ug/L	198638	1	11/01/2014 21:32	MD
2,2-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
2-Butanone	BRL	50		ug/L	198638	1	11/01/2014 21:32	MD
2-Chlorotoluene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
4-Chlorotoluene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
4-Isopropyltoluene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
Acetone	BRL	50		ug/L	198638	1	11/01/2014 21:32	MD
Benzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
Bromobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
Bromochloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
Bromodichloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
Bromoform	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
Bromomethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
Carbon tetrachloride	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
Chlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
Chloroethane	BRL	10		ug/L	198638	1	11/01/2014 21:32	MD
Chloroform	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
Chloromethane	BRL	10		ug/L	198638	1	11/01/2014 21:32	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
Cyclohexane	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
Dibromochloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-8
Project Name:	Gainsville DOT	**Collection Date:**	10/30/2014 3:46:00 PM
Lab ID:	1410R70-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Dibromomethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
Dichlorodifluoromethane	BRL	10		ug/L	198638	1	11/01/2014 21:32	MD
Ethylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
Hexachlorobutadiene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
Isopropylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
m,p-Xylene	BRL	10		ug/L	198638	1	11/01/2014 21:32	MD
Methylene chloride	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
n-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
n-Propylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
Naphthalene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
o-Xylene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
sec-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
Styrene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
tert-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
Tetrachloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
Toluene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
Trichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
Trichlorofluoromethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:32	MD
Vinyl chloride	BRL	2.0		ug/L	198638	1	11/01/2014 21:32	MD
Surr: 4-Bromofluorobenzene	81.7	70.6-123		%REC	198638	1	11/01/2014 21:32	MD
Surr: Dibromofluoromethane	97.4	78.7-124		%REC	198638	1	11/01/2014 21:32	MD
Surr: Toluene-d8	94.2	81.3-120		%REC	198638	1	11/01/2014 21:32	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-3D
Project Name:	Gainsville DOT	**Collection Date:**	10/30/2014 11:30:00 AM
Lab ID:	1410R70-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
1,1,1-Trichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
1,1-Dichloroethane	5.6	5.0		ug/L	198638	1	11/01/2014 21:58	MD
1,1-Dichloroethene	51	5.0		ug/L	198638	1	11/01/2014 21:58	MD
1,1-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
1,2,3-Trichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
1,2-Dibromoethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
1,2-Dichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
1,2-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
1,3-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
1,4-Dioxane	BRL	150		ug/L	198638	1	11/01/2014 21:58	MD
2,2-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
2-Butanone	BRL	50		ug/L	198638	1	11/01/2014 21:58	MD
2-Chlorotoluene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
4-Chlorotoluene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
4-Isopropyltoluene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
Acetone	BRL	50		ug/L	198638	1	11/01/2014 21:58	MD
Benzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
Bromobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
Bromochloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
Bromodichloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
Bromoform	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
Bromomethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
Carbon tetrachloride	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
Chlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
Chloroethane	BRL	10		ug/L	198638	1	11/01/2014 21:58	MD
Chloroform	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
Chloromethane	BRL	10		ug/L	198638	1	11/01/2014 21:58	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
Cyclohexane	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
Dibromochloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-3D
Project Name:	Gainsville DOT	**Collection Date:**	10/30/2014 11:30:00 AM
Lab ID:	1410R70-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Dibromomethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
Dichlorodifluoromethane	BRL	10		ug/L	198638	1	11/01/2014 21:58	MD
Ethylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
Hexachlorobutadiene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
Isopropylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
m,p-Xylene	BRL	10		ug/L	198638	1	11/01/2014 21:58	MD
Methylene chloride	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
n-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
n-Propylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
Naphthalene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
o-Xylene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
sec-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
Styrene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
tert-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
Tetrachloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
Toluene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
Trichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
Trichlorofluoromethane	BRL	5.0		ug/L	198638	1	11/01/2014 21:58	MD
Vinyl chloride	BRL	2.0		ug/L	198638	1	11/01/2014 21:58	MD
Surr: 4-Bromofluorobenzene	80.7	70.6-123		%REC	198638	1	11/01/2014 21:58	MD
Surr: Dibromofluoromethane	98.7	78.7-124		%REC	198638	1	11/01/2014 21:58	MD
Surr: Toluene-d8	94.7	81.3-120		%REC	198638	1	11/01/2014 21:58	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-10D
Project Name:	Gainsville DOT	**Collection Date:**	10/30/2014 4:00:00 PM
Lab ID:	1410R70-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
1,1,1-Trichloroethane	54	5.0		ug/L	198638	1	11/01/2014 19:19	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
1,1-Dichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
1,1-Dichloroethene	45	5.0		ug/L	198638	1	11/01/2014 19:19	MD
1,1-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
1,2,3-Trichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
1,2-Dibromoethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
1,2-Dichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
1,2-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
1,3-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
1,4-Dioxane	BRL	150		ug/L	198638	1	11/01/2014 19:19	MD
2,2-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
2-Butanone	BRL	50		ug/L	198638	1	11/01/2014 19:19	MD
2-Chlorotoluene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
4-Chlorotoluene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
4-Isopropyltoluene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
Acetone	BRL	50		ug/L	198638	1	11/01/2014 19:19	MD
Benzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
Bromobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
Bromochloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
Bromodichloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
Bromoform	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
Bromomethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
Carbon tetrachloride	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
Chlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
Chloroethane	BRL	10		ug/L	198638	1	11/01/2014 19:19	MD
Chloroform	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
Chloromethane	BRL	10		ug/L	198638	1	11/01/2014 19:19	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
Cyclohexane	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
Dibromochloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-10D
Project Name:	Gainsville DOT	**Collection Date:**	10/30/2014 4:00:00 PM
Lab ID:	1410R70-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Dibromomethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
Dichlorodifluoromethane	BRL	10		ug/L	198638	1	11/01/2014 19:19	MD
Ethylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
Hexachlorobutadiene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
Isopropylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
m,p-Xylene	BRL	10		ug/L	198638	1	11/01/2014 19:19	MD
Methylene chloride	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
n-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
n-Propylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
Naphthalene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
o-Xylene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
sec-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
Styrene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
tert-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
Tetrachloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
Toluene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
Trichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
Trichlorofluoromethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:19	MD
Vinyl chloride	BRL	2.0		ug/L	198638	1	11/01/2014 19:19	MD
Surr: 4-Bromofluorobenzene	81.8	70.6-123		%REC	198638	1	11/01/2014 19:19	MD
Surr: Dibromofluoromethane	102	78.7-124		%REC	198638	1	11/01/2014 19:19	MD
Surr: Toluene-d8	94.6	81.3-120		%REC	198638	1	11/01/2014 19:19	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-X
Project Name:	Gainsville DOT	**Collection Date:**	10/30/2014 12:00:00 PM
Lab ID:	1410R70-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
1,1,1-Trichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
1,1-Dichloroethane	5.5	5.0		ug/L	198638	1	11/01/2014 22:25	MD
1,1-Dichloroethene	44	5.0		ug/L	198638	1	11/01/2014 22:25	MD
1,1-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
1,2,3-Trichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
1,2-Dibromoethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
1,2-Dichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
1,2-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
1,3-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
1,4-Dioxane	190	150		ug/L	198638	1	11/01/2014 22:25	MD
2,2-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
2-Butanone	BRL	50		ug/L	198638	1	11/01/2014 22:25	MD
2-Chlorotoluene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
4-Chlorotoluene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
4-Isopropyltoluene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
Acetone	BRL	50		ug/L	198638	1	11/01/2014 22:25	MD
Benzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
Bromobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
Bromochloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
Bromodichloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
Bromoform	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
Bromomethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
Carbon tetrachloride	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
Chlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
Chloroethane	BRL	10		ug/L	198638	1	11/01/2014 22:25	MD
Chloroform	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
Chloromethane	BRL	10		ug/L	198638	1	11/01/2014 22:25	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
Cyclohexane	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
Dibromochloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-X
Project Name:	Gainsville DOT	**Collection Date:**	10/30/2014 12:00:00 PM
Lab ID:	1410R70-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Dibromomethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
Dichlorodifluoromethane	BRL	10		ug/L	198638	1	11/01/2014 22:25	MD
Ethylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
Hexachlorobutadiene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
Isopropylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
m,p-Xylene	BRL	10		ug/L	198638	1	11/01/2014 22:25	MD
Methylene chloride	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
n-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
n-Propylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
Naphthalene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
o-Xylene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
sec-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
Styrene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
tert-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
Tetrachloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
Toluene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
Trichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
Trichlorofluoromethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:25	MD
Vinyl chloride	BRL	2.0		ug/L	198638	1	11/01/2014 22:25	MD
Surr: 4-Bromofluorobenzene	81.3	70.6-123		%REC	198638	1	11/01/2014 22:25	MD
Surr: Dibromofluoromethane	100	78.7-124		%REC	198638	1	11/01/2014 22:25	MD
Surr: Toluene-d8	95	81.3-120		%REC	198638	1	11/01/2014 22:25	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	EB SET #1
Project Name:	Gainsville DOT	**Collection Date:**	10/30/2014 6:25:00 PM
Lab ID:	1410R70-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
1,1,1-Trichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
1,1-Dichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
1,1-Dichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
1,1-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
1,2,3-Trichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
1,2-Dibromoethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
1,2-Dichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
1,2-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
1,3-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
1,4-Dioxane	BRL	150		ug/L	198638	1	11/01/2014 22:51	MD
2,2-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
2-Butanone	BRL	50		ug/L	198638	1	11/01/2014 22:51	MD
2-Chlorotoluene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
4-Chlorotoluene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
4-Isopropyltoluene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
Acetone	BRL	50		ug/L	198638	1	11/01/2014 22:51	MD
Benzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
Bromobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
Bromochloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
Bromodichloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
Bromoform	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
Bromomethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
Carbon tetrachloride	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
Chlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
Chloroethane	BRL	10		ug/L	198638	1	11/01/2014 22:51	MD
Chloroform	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
Chloromethane	BRL	10		ug/L	198638	1	11/01/2014 22:51	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
Cyclohexane	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
Dibromochloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	EB SET #1
Project Name:	Gainsville DOT	**Collection Date:**	10/30/2014 6:25:00 PM
Lab ID:	1410R70-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Dibromomethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
Dichlorodifluoromethane	BRL	10		ug/L	198638	1	11/01/2014 22:51	MD
Ethylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
Hexachlorobutadiene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
Isopropylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
m,p-Xylene	BRL	10		ug/L	198638	1	11/01/2014 22:51	MD
Methylene chloride	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
n-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
n-Propylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
Naphthalene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
o-Xylene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
sec-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
Styrene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
tert-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
Tetrachloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
Toluene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
Trichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
Trichlorofluoromethane	BRL	5.0		ug/L	198638	1	11/01/2014 22:51	MD
Vinyl chloride	BRL	2.0		ug/L	198638	1	11/01/2014 22:51	MD
Surr: 4-Bromofluorobenzene	79.8	70.6-123		%REC	198638	1	11/01/2014 22:51	MD
Surr: Dibromofluoromethane	96.4	78.7-124		%REC	198638	1	11/01/2014 22:51	MD
Surr: Toluene-d8	95	81.3-120		%REC	198638	1	11/01/2014 22:51	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	EB-2
Project Name:	Gainsville DOT	**Collection Date:**	10/30/2014 5:05:00 PM
Lab ID:	1410R70-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
1,1,1-Trichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
1,1-Dichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
1,1-Dichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
1,1-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
1,2,3-Trichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
1,2-Dibromoethane	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
1,2-Dichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
1,2-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
1,3-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
1,4-Dioxane	BRL	150		ug/L	198638	1	11/01/2014 23:17	MD
2,2-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
2-Butanone	BRL	50		ug/L	198638	1	11/01/2014 23:17	MD
2-Chlorotoluene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
4-Chlorotoluene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
4-Isopropyltoluene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
Acetone	BRL	50		ug/L	198638	1	11/01/2014 23:17	MD
Benzene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
Bromobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
Bromochloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
Bromodichloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
Bromoform	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
Bromomethane	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
Carbon tetrachloride	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
Chlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
Chloroethane	BRL	10		ug/L	198638	1	11/01/2014 23:17	MD
Chloroform	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
Chloromethane	BRL	10		ug/L	198638	1	11/01/2014 23:17	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
Cyclohexane	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
Dibromochloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	EB-2
Project Name:	Gainsville DOT	**Collection Date:**	10/30/2014 5:05:00 PM
Lab ID:	1410R70-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Dibromomethane	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
Dichlorodifluoromethane	BRL	10		ug/L	198638	1	11/01/2014 23:17	MD
Ethylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
Hexachlorobutadiene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
Isopropylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
m,p-Xylene	BRL	10		ug/L	198638	1	11/01/2014 23:17	MD
Methylene chloride	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
n-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
n-Propylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
Naphthalene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
o-Xylene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
sec-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
Styrene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
tert-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
Tetrachloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
Toluene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
Trichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
Trichlorofluoromethane	BRL	5.0		ug/L	198638	1	11/01/2014 23:17	MD
Vinyl chloride	BRL	2.0		ug/L	198638	1	11/01/2014 23:17	MD
Surr: 4-Bromofluorobenzene	83	70.6-123		%REC	198638	1	11/01/2014 23:17	MD
Surr: Dibromofluoromethane	99.3	78.7-124		%REC	198638	1	11/01/2014 23:17	MD
Surr: Toluene-d8	96.2	81.3-120		%REC	198638	1	11/01/2014 23:17	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	Gainsville DOT	**Collection Date:**	10/30/2014
Lab ID:	1410R70-009	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
1,1,1-Trichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
1,1-Dichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
1,1-Dichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
1,1-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
1,2,3-Trichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
1,2-Dibromoethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
1,2-Dichloroethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
1,2-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
1,3-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
1,4-Dioxane	BRL	150		ug/L	198638	1	11/01/2014 19:46	MD
2,2-Dichloropropane	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
2-Butanone	BRL	50		ug/L	198638	1	11/01/2014 19:46	MD
2-Chlorotoluene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
4-Chlorotoluene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
4-Isopropyltoluene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
Acetone	BRL	50		ug/L	198638	1	11/01/2014 19:46	MD
Benzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
Bromobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
Bromochloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
Bromodichloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
Bromoform	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
Bromomethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
Carbon tetrachloride	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
Chlorobenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
Chloroethane	BRL	10		ug/L	198638	1	11/01/2014 19:46	MD
Chloroform	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
Chloromethane	BRL	10		ug/L	198638	1	11/01/2014 19:46	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
Cyclohexane	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
Dibromochloromethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	Gainsville DOT	**Collection Date:**	10/30/2014
Lab ID:	1410R70-009	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Dibromomethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
Dichlorodifluoromethane	BRL	10		ug/L	198638	1	11/01/2014 19:46	MD
Ethylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
Hexachlorobutadiene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
Isopropylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
m,p-Xylene	BRL	10		ug/L	198638	1	11/01/2014 19:46	MD
Methylene chloride	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
n-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
n-Propylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
Naphthalene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
o-Xylene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
sec-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
Styrene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
tert-Butylbenzene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
Tetrachloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
Toluene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
Trichloroethene	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
Trichlorofluoromethane	BRL	5.0		ug/L	198638	1	11/01/2014 19:46	MD
Vinyl chloride	BRL	2.0		ug/L	198638	1	11/01/2014 19:46	MD
Surr: 4-Bromofluorobenzene	81.7	70.6-123		%REC	198638	1	11/01/2014 19:46	MD
Surr: Dibromofluoromethane	101	78.7-124		%REC	198638	1	11/01/2014 19:46	MD
Surr: Toluene-d8	97.3	81.3-120		%REC	198638	1	11/01/2014 19:46	MD

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client SHE Work Order Number 1410R70

Checklist completed by [signature] 10/31/14
Signature Date

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

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

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

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

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

Cooler #1 3.2 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by JB

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

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

Analytical Environmental Services, Inc

Date: 7-Nov-14

Client: S&ME, Inc.
Project: Gainsville DOT
Lab Order: 1410R70

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1410R70-001A	MW-6	10/30/2014 5:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/01/2014	11/01/2014
1410R70-001B	MW-6	10/30/2014 5:10:00PM	Groundwater	TOTAL METALS BY ICP		11/03/2014	11/04/2014
1410R70-001C	MW-6	10/30/2014 5:10:00PM	Groundwater	ION SCAN			10/31/2014
1410R70-001D	MW-6	10/30/2014 5:10:00PM	Groundwater	Hexavalent Chromium			10/31/2014
1410R70-002A	MW-7	10/30/2014 3:27:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/01/2014	11/01/2014
1410R70-003A	MW-8	10/30/2014 3:46:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/01/2014	11/01/2014
1410R70-004A	MW-3D	10/30/2014 11:30:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/01/2014	11/01/2014
1410R70-005A	MW-10D	10/30/2014 4:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/01/2014	11/01/2014
1410R70-006A	MW-X	10/30/2014 12:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/01/2014	11/01/2014
1410R70-007A	EB SET #1	10/30/2014 6:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/01/2014	11/01/2014
1410R70-008A	EB-2	10/30/2014 5:05:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/01/2014	11/01/2014
1410R70-009A	TRIP BLANK	10/30/2014 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/01/2014	11/01/2014

Client: S&ME, Inc.
Project Name: Gainsville DOT
Workorder: 1410R70

ANALYTICAL QC SUMMARY REPORT

BatchID: 198632

Sample ID: **MB-198632** Client ID: Units: **ug/L** Prep Date: **11/03/2014** Run No: **279303**
SampleType: **MBLK** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **198632** Analysis Date: **11/04/2014** Seq No: **5904366**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	BRL	10.0									

Sample ID: **LCS-198632** Client ID: Units: **ug/L** Prep Date: **11/03/2014** Run No: **279303**
SampleType: **LCS** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **198632** Analysis Date: **11/04/2014** Seq No: **5904369**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	1070	10.0	1.000		107	80	120				

Sample ID: **1410R56-001BMS** Client ID: Units: **ug/L** Prep Date: **11/03/2014** Run No: **279303**
SampleType: **MS** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **198632** Analysis Date: **11/04/2014** Seq No: **5904371**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	1044	10.0	1.000		104	75	125				

Sample ID: **1410R56-001BMSD** Client ID: Units: **ug/L** Prep Date: **11/03/2014** Run No: **279303**
SampleType: **MSD** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **198632** Analysis Date: **11/04/2014** Seq No: **5904372**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	1045	10.0	1.000		105	75	125	1.044	0.094	20	

Qualifiers:

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

Client: S&ME, Inc.
Project Name: Gainsville DOT
Workorder: 1410R70

ANALYTICAL QC SUMMARY REPORT

BatchID: 198638

Sample ID: **MB-198638** Client ID: Units: **ug/L** Prep Date: **11/01/2014** Run No: **279170**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **198638** Analysis Date: **11/01/2014** Seq No: **5901433**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	BRL	5.0									
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,1-Dichloropropene	BRL	5.0									
1,2,3-Trichlorobenzene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2,4-Trimethylbenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,3-Dichloropropane	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
1,4-Dioxane	BRL	150									
2,2-Dichloropropane	BRL	5.0									
2-Butanone	BRL	50									
2-Chlorotoluene	BRL	5.0									
4-Chlorotoluene	BRL	5.0									
4-Isopropyltoluene	BRL	5.0									
Acetone	BRL	50									
Benzene	BRL	5.0									

Qualifiers:

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

Client: S&ME, Inc.
Project Name: Gainsville DOT
Workorder: 1410R70

ANALYTICAL QC SUMMARY REPORT

BatchID: 198638

Sample ID: **MB-198638** Client ID: Units: **ug/L** Prep Date: **11/01/2014** Run No: **279170**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **198638** Analysis Date: **11/01/2014** Seq No: **5901433**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Bromobenzene	BRL	5.0									
Bromochloromethane	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Hexachlorobutadiene	BRL	5.0									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methylene chloride	BRL	5.0									
n-Butylbenzene	BRL	5.0									
n-Propylbenzene	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
sec-Butylbenzene	BRL	5.0									
Styrene	BRL	5.0									

Qualifiers:

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

Client: S&ME, Inc.
Project Name: Gainsville DOT
Workorder: 1410R70

ANALYTICAL QC SUMMARY REPORT

BatchID: 198638

Sample ID: **MB-198638** Client ID: Units: **ug/L** Prep Date: **11/01/2014** Run No: **279170**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **198638** Analysis Date: **11/01/2014** Seq No: **5901433**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
tert-Butylbenzene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	40.36	0	50.00		80.7	70.6	123				
Surr: Dibromofluoromethane	50.49	0	50.00		101	78.7	124				
Surr: Toluene-d8	46.74	0	50.00		93.5	81.3	120				

Sample ID: **LCS-198638** Client ID: Units: **ug/L** Prep Date: **11/01/2014** Run No: **279170**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **198638** Analysis Date: **11/01/2014** Seq No: **5901405**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	51.02	5.0	50.00		102	63.1	140				
Benzene	47.95	5.0	50.00		95.9	74.2	129				
Chlorobenzene	52.65	5.0	50.00		105	70	129				
Toluene	49.99	5.0	50.00		100.0	74.2	129				
Trichloroethene	49.93	5.0	50.00		99.9	71.2	135				
Surr: 4-Bromofluorobenzene	41.61	0	50.00		83.2	70.6	123				
Surr: Dibromofluoromethane	48.35	0	50.00		96.7	78.7	124				
Surr: Toluene-d8	46.74	0	50.00		93.5	81.3	120				

Qualifiers:

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

Client: S&ME, Inc.
Project Name: Gainsville DOT
Workorder: 1410R70

ANALYTICAL QC SUMMARY REPORT

BatchID: 198638

Sample ID: **1410R70-005AMS** Client ID: **MW-10D** Units: **ug/L** Prep Date: **11/01/2014** Run No: **279170**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **198638** Analysis Date: **11/01/2014** Seq No: **5901406**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	99.14	5.0	50.00	44.89	108	60.2	159				
Benzene	47.11	5.0	50.00		94.2	70.2	138				
Chlorobenzene	51.45	5.0	50.00		103	70.1	133				
Toluene	48.53	5.0	50.00		97.1	70	139				
Trichloroethene	50.77	5.0	50.00	1.340	98.9	70.1	144				
Surr: 4-Bromofluorobenzene	39.77	0	50.00		79.5	70.6	123				
Surr: Dibromofluoromethane	48.86	0	50.00		97.7	78.7	124				
Surr: Toluene-d8	46.28	0	50.00		92.6	81.3	120				

Sample ID: **1410R70-005AMSD** Client ID: **MW-10D** Units: **ug/L** Prep Date: **11/01/2014** Run No: **279170**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **198638** Analysis Date: **11/01/2014** Seq No: **5901407**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	94.68	5.0	50.00	44.89	99.6	60.2	159	99.14	4.60	19.2	
Benzene	45.24	5.0	50.00		90.5	70.2	138	47.11	4.05	20	
Chlorobenzene	50.47	5.0	50.00		101	70.1	133	51.45	1.92	20	
Toluene	47.09	5.0	50.00		94.2	70	139	48.53	3.01	20	
Trichloroethene	49.69	5.0	50.00	1.340	96.7	70.1	144	50.77	2.15	20	
Surr: 4-Bromofluorobenzene	39.95	0	50.00		79.9	70.6	123	39.77	0	0	
Surr: Dibromofluoromethane	49.24	0	50.00		98.5	78.7	124	48.86	0	0	
Surr: Toluene-d8	46.63	0	50.00		93.3	81.3	120	46.28	0	0	

Qualifiers:

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

Client: S&ME, Inc.
Project Name: Gainsville DOT
Workorder: 1410R70

ANALYTICAL QC SUMMARY REPORT

BatchID: R279107

Sample ID: **MB-R279107** Client ID: Units: **ug/L** Prep Date: Run No: **279107**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R279107** Analysis Date: **10/31/2014** Seq No: **5900097**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1000									
Sulfate	BRL	1000									

Sample ID: **LCS-R279107** Client ID: Units: **ug/L** Prep Date: Run No: **279107**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R279107** Analysis Date: **10/31/2014** Seq No: **5900098**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	10810	1000	10.00	0.2634	105	90	110				
Sulfate	24110	1000	25.00		96.5	90	110				

Sample ID: **1410R70-001CMS** Client ID: **MW-6** Units: **ug/L** Prep Date: Run No: **279107**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R279107** Analysis Date: **10/31/2014** Seq No: **5900101**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	110700	10000	100.0	13.89	96.8	90	110				
Sulfate	227300	10000	250.0	1.363	90.4	90	110				

Sample ID: **1410R70-001CMSD** Client ID: **MW-6** Units: **ug/L** Prep Date: Run No: **279107**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R279107** Analysis Date: **10/31/2014** Seq No: **5900102**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	105400	10000	100.0	13.89	91.5	90	110	110.7	4.93	20	
Sulfate	227000	10000	250.0	1.363	90.2	90	110	227.3	0.136	20	

Qualifiers:

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

Client: S&ME, Inc.
Project Name: Gainsville DOT
Workorder: 1410R70

ANALYTICAL QC SUMMARY REPORT

BatchID: R279161

Sample ID: **MB-R279161** Client ID: Units: **ug/L** Prep Date: Run No: **279161**
SampleType: **MBLK** TestCode: **Hexavalent Chromium** **SM3500-Cr B** BatchID: **R279161** Analysis Date: **10/31/2014** Seq No: **5901273**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	BRL	10.0									

Sample ID: **LCS-R279161** Client ID: Units: **ug/L** Prep Date: Run No: **279161**
SampleType: **LCS** TestCode: **Hexavalent Chromium** **SM3500-Cr B** BatchID: **R279161** Analysis Date: **10/31/2014** Seq No: **5901274**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	481.9	10.0	0.5000		96.4	90	110				

Sample ID: **1410R26-001CMS** Client ID: Units: **ug/L** Prep Date: Run No: **279161**
SampleType: **MS** TestCode: **Hexavalent Chromium** **SM3500-Cr B** BatchID: **R279161** Analysis Date: **10/31/2014** Seq No: **5901288**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	486.0	10.0	0.5000		97.2	85	115				

Sample ID: **1410R26-001CMSD** Client ID: Units: **ug/L** Prep Date: Run No: **279161**
SampleType: **MSD** TestCode: **Hexavalent Chromium** **SM3500-Cr B** BatchID: **R279161** Analysis Date: **10/31/2014** Seq No: **5901290**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	477.9	10.0	0.5000		95.6	85	115	0.4860	1.68	30	

Qualifiers:

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

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 04, 2014

Steve Diamond
S&ME, Inc.
3380 Townpoint Drive
Kennesaw GA 30144

TEL: (770) 919-0969
FAX: (770) 919-2360

RE: Gainsville DOT

Dear Steve Diamond: Order No: 1410S72

Analytical Environmental Services, Inc. received 3 samples on 10/31/2014 2:25:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

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

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

Dorothy deBruyn
Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1410572

Date: 10/31/14 Page 1 of 1

COMPANY:	ADDRESS:
STME, Inc.	3380 Town Point Drive, Suite 140 Kennesaw, GA 30144
PHONE: (770) 919-0969	FAX: (770) 919-2360
SAMPLED BY: Adam Riley / Mitzy Garn	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOCs (8260B)	PRESERVATION (See codes) HCl +I	REMARKS	No # of Containers
1	MW-10D	10/31/14	1220	X		GW	X			2
2										
3	FB Set #2	10/31/14	1320	X		W	X			2
4										
5										
6										
7										
8										
9										
10										
11										
12										
13	Trip Blank	10/31/14								2
14	Temp Blank	10/31/14								1

ANALYSIS REQUESTED

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

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	10/31/14 1330	1:	10/31/14 1330
2:	10/31/14 1425	2: Lataya Reeves	10/31/14 2:25
3:		3:	

PROJECT INFORMATION

PROJECT NAME: GDOT - Gainesville
PROJECT #: 4468-14-073
SITE ADDRESS: 2505 Athens Highway Gainesville, GA
SEND REPORT TO: Steve Diamond
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT

Total # of Containers: 7

Turnaround Time Request
- (●) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other

STATE PROGRAM (if any): HSRA
E-mail? (Y) / N; Fax? Y / N
DATA PACKAGE: (I) II III IV

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
(CLIENT) FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

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

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

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

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc **Date:** 4-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-10D
Project Name:	Gainsville DOT	**Collection Date:**	10/21/2014 12:20:00 PM
Lab ID:	1410S72-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,4-Dioxane	BRL	150		ug/L	198627	1	11/03/2014 18:14	MD
Dichlorodifluoromethane	BRL	10		ug/L	198627	1	11/03/2014 18:14	MD
Chloromethane	BRL	10		ug/L	198627	1	11/03/2014 18:14	MD
Vinyl chloride	BRL	2.0		ug/L	198627	1	11/03/2014 18:14	MD
Bromomethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
Chloroethane	BRL	10		ug/L	198627	1	11/03/2014 18:14	MD
Trichlorofluoromethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
1,1-Dichloroethene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
Acetone	BRL	50		ug/L	198627	1	11/03/2014 18:14	MD
Methylene chloride	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
1,1-Dichloroethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
2,2-Dichloropropane	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
2-Butanone	BRL	50		ug/L	198627	1	11/03/2014 18:14	MD
Chloroform	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
1,1,1-Trichloroethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
Cyclohexane	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
1,1-Dichloropropene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
Carbon tetrachloride	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
Benzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
1,2-Dichloroethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
Trichloroethene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
1,2-Dichloropropane	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
Dibromomethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
Bromodichloromethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
Toluene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
Tetrachloroethene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
1,3-Dichloropropane	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
Dibromochloromethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
1,2-Dibromoethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
Chlorobenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
Ethylbenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
m,p-Xylene	BRL	10		ug/L	198627	1	11/03/2014 18:14	MD
o-Xylene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
Styrene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
Bromoform	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 4-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	MW-10D
Project Name:	Gainsville DOT	**Collection Date:**	10/21/2014 12:20:00 PM
Lab ID:	1410S72-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Bromochloromethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
1,2,3-Trichloropropane	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
Isopropylbenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
Naphthalene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
2-Chlorotoluene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
4-Chlorotoluene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
tert-Butylbenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
sec-Butylbenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
4-Isopropyltoluene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
n-Propylbenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
Hexachlorobutadiene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
n-Butylbenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
Bromobenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:14	MD
Surr: 4-Bromofluorobenzene	87.1	70.6-123		%REC	198627	1	11/03/2014 18:14	MD
Surr: Dibromofluoromethane	105	78.7-124		%REC	198627	1	11/03/2014 18:14	MD
Surr: Toluene-d8	98.1	81.3-120		%REC	198627	1	11/03/2014 18:14	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 4-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	EB SET#2
Project Name:	Gainsville DOT	**Collection Date:**	10/31/2014 1:20:00 PM
Lab ID:	1410S72-002	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,4-Dioxane	BRL	150		ug/L	198627	1	11/03/2014 18:38	MD
Dichlorodifluoromethane	BRL	10		ug/L	198627	1	11/03/2014 18:38	MD
Chloromethane	BRL	10		ug/L	198627	1	11/03/2014 18:38	MD
Vinyl chloride	BRL	2.0		ug/L	198627	1	11/03/2014 18:38	MD
Bromomethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
Chloroethane	BRL	10		ug/L	198627	1	11/03/2014 18:38	MD
Trichlorofluoromethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
1,1-Dichloroethene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
Acetone	BRL	50		ug/L	198627	1	11/03/2014 18:38	MD
Methylene chloride	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
1,1-Dichloroethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
2,2-Dichloropropane	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
2-Butanone	BRL	50		ug/L	198627	1	11/03/2014 18:38	MD
Chloroform	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
1,1,1-Trichloroethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
Cyclohexane	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
1,1-Dichloropropene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
Carbon tetrachloride	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
Benzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
1,2-Dichloroethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
Trichloroethene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
1,2-Dichloropropane	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
Dibromomethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
Bromodichloromethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
Toluene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
Tetrachloroethene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
1,3-Dichloropropane	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
Dibromochloromethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
1,2-Dibromoethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
Chlorobenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
Ethylbenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
m,p-Xylene	BRL	10		ug/L	198627	1	11/03/2014 18:38	MD
o-Xylene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
Styrene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
Bromoform	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 4-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	EB SET#2
Project Name:	Gainsville DOT	**Collection Date:**	10/31/2014 1:20:00 PM
Lab ID:	1410S72-002	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Bromochloromethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
1,2,3-Trichloropropane	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
Isopropylbenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
Naphthalene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
2-Chlorotoluene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
4-Chlorotoluene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
tert-Butylbenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
sec-Butylbenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
4-Isopropyltoluene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
n-Propylbenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
Hexachlorobutadiene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
n-Butylbenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
Bromobenzene	BRL	5.0		ug/L	198627	1	11/03/2014 18:38	MD
Surr: 4-Bromofluorobenzene	87.9	70.6-123		%REC	198627	1	11/03/2014 18:38	MD
Surr: Dibromofluoromethane	105	78.7-124		%REC	198627	1	11/03/2014 18:38	MD
Surr: Toluene-d8	99.2	81.3-120		%REC	198627	1	11/03/2014 18:38	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 4-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	Gainsville DOT	**Collection Date:**	10/31/2014
Lab ID:	1410S72-003	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,4-Dioxane	BRL	150		ug/L	198627	1	11/03/2014 19:03	MD
Dichlorodifluoromethane	BRL	10		ug/L	198627	1	11/03/2014 19:03	MD
Chloromethane	BRL	10		ug/L	198627	1	11/03/2014 19:03	MD
Vinyl chloride	BRL	2.0		ug/L	198627	1	11/03/2014 19:03	MD
Bromomethane	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
Chloroethane	BRL	10		ug/L	198627	1	11/03/2014 19:03	MD
Trichlorofluoromethane	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
1,1-Dichloroethene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
Acetone	BRL	50		ug/L	198627	1	11/03/2014 19:03	MD
Methylene chloride	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
1,1-Dichloroethane	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
2,2-Dichloropropane	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
2-Butanone	BRL	50		ug/L	198627	1	11/03/2014 19:03	MD
Chloroform	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
1,1,1-Trichloroethane	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
Cyclohexane	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
1,1-Dichloropropene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
Carbon tetrachloride	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
Benzene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
1,2-Dichloroethane	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
Trichloroethene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
1,2-Dichloropropane	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
Dibromomethane	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
Bromodichloromethane	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
Toluene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
Tetrachloroethene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
1,3-Dichloropropane	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
Dibromochloromethane	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
1,2-Dibromoethane	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
Chlorobenzene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
1,1,1,2-Tetrachloroethane	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
Ethylbenzene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
m,p-Xylene	BRL	10		ug/L	198627	1	11/03/2014 19:03	MD
o-Xylene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
Styrene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
Bromoform	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 4-Nov-14

Client:	S&ME, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	Gainsville DOT	**Collection Date:**	10/31/2014
Lab ID:	1410S72-003	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Bromochloromethane	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
1,2,3-Trichloropropane	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
Isopropylbenzene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
Naphthalene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
2-Chlorotoluene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
4-Chlorotoluene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
tert-Butylbenzene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
1,2,4-Trimethylbenzene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
sec-Butylbenzene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
4-Isopropyltoluene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
n-Propylbenzene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
Hexachlorobutadiene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
n-Butylbenzene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
1,2,3-Trichlorobenzene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
Bromobenzene	BRL	5.0		ug/L	198627	1	11/03/2014 19:03	MD
Surr: 4-Bromofluorobenzene	88.9	70.6-123		%REC	198627	1	11/03/2014 19:03	MD
Surr: Dibromofluoromethane	105	78.7-124		%REC	198627	1	11/03/2014 19:03	MD
Surr: Toluene-d8	98.4	81.3-120		%REC	198627	1	11/03/2014 19:03	MD

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client S+ME - Kennesaw Work Order Number 1410572

Checklist completed by Joana Pacurar 10/31/14
Signature Date

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

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

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

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

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

Cooler #1 3.1°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

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

Client: S&ME, Inc.
Project Name: Gainsville DOT
Workorder: 1410S72

ANALYTICAL QC SUMMARY REPORT

BatchID: 198627

Sample ID: **MB-198627** Client ID: Units: **ug/L** Prep Date: **11/01/2014** Run No: **279145**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **198627** Analysis Date: **11/01/2014** Seq No: **5901052**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	BRL	5.0									
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,1-Dichloropropene	BRL	5.0									
1,2,3-Trichlorobenzene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2,4-Trimethylbenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,3-Dichloropropane	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
1,4-Dioxane	BRL	150									
2,2-Dichloropropane	BRL	5.0									
2-Butanone	BRL	50									
2-Chlorotoluene	BRL	5.0									
4-Chlorotoluene	BRL	5.0									
4-Isopropyltoluene	BRL	5.0									
Acetone	BRL	50									
Benzene	BRL	5.0									

Qualifiers:

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

Client: S&ME, Inc.
Project Name: Gainsville DOT
Workorder: 1410S72

ANALYTICAL QC SUMMARY REPORT

BatchID: 198627

Sample ID: **MB-198627** Client ID: Units: **ug/L** Prep Date: **11/01/2014** Run No: **279145**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **198627** Analysis Date: **11/01/2014** Seq No: **5901052**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Bromobenzene	BRL	5.0									
Bromochloromethane	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Hexachlorobutadiene	BRL	5.0									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methylene chloride	BRL	5.0									
n-Butylbenzene	BRL	5.0									
n-Propylbenzene	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
sec-Butylbenzene	BRL	5.0									
Styrene	BRL	5.0									

Qualifiers:

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

Client: S&ME, Inc.
Project Name: Gainsville DOT
Workorder: 1410S72

ANALYTICAL QC SUMMARY REPORT

BatchID: 198627

Sample ID: **MB-198627** Client ID: Units: **ug/L** Prep Date: **11/01/2014** Run No: **279145**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **198627** Analysis Date: **11/01/2014** Seq No: **5901052**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
tert-Butylbenzene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	40.40	0	50.00		80.8	70.6	123				
Surr: Dibromofluoromethane	51.27	0	50.00		103	78.7	124				
Surr: Toluene-d8	47.97	0	50.00		95.9	81.3	120				

Sample ID: **LCS-198627** Client ID: Units: **ug/L** Prep Date: **11/01/2014** Run No: **279145**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **198627** Analysis Date: **11/01/2014** Seq No: **5901044**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	51.46	5.0	50.00		103	63.1	140				
Benzene	45.58	5.0	50.00		91.2	74.2	129				
Chlorobenzene	50.33	5.0	50.00		101	70	129				
Toluene	47.97	5.0	50.00		95.9	74.2	129				
Trichloroethene	48.10	5.0	50.00		96.2	71.2	135				
Surr: 4-Bromofluorobenzene	42.72	0	50.00		85.4	70.6	123				
Surr: Dibromofluoromethane	47.67	0	50.00		95.3	78.7	124				
Surr: Toluene-d8	45.65	0	50.00		91.3	81.3	120				

Qualifiers:

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

Client: S&ME, Inc.
Project Name: Gainsville DOT
Workorder: 1410S72

ANALYTICAL QC SUMMARY REPORT

BatchID: 198627

Sample ID: **1410Q83-002AMS** Client ID: Units: **ug/L** Prep Date: **11/01/2014** Run No: **279145**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **198627** Analysis Date: **11/01/2014** Seq No: **5901045**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	52.79	5.0	50.00		106	60.2	159				
Benzene	46.49	5.0	50.00		93.0	70.2	138				
Chlorobenzene	50.02	5.0	50.00		100	70.1	133				
Toluene	48.48	5.0	50.00		97.0	70	139				
Trichloroethene	48.65	5.0	50.00		97.3	70.1	144				
Surr: 4-Bromofluorobenzene	40.05	0	50.00		80.1	70.6	123				
Surr: Dibromofluoromethane	47.23	0	50.00		94.5	78.7	124				
Surr: Toluene-d8	46.96	0	50.00		93.9	81.3	120				

Sample ID: **1410Q83-002AMSD** Client ID: Units: **ug/L** Prep Date: **11/01/2014** Run No: **279145**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **198627** Analysis Date: **11/01/2014** Seq No: **5901047**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	52.89	5.0	50.00		106	60.2	159	52.79	0.189	19.2	
Benzene	45.79	5.0	50.00		91.6	70.2	138	46.49	1.52	20	
Chlorobenzene	49.61	5.0	50.00		99.2	70.1	133	50.02	0.823	20	
Toluene	49.18	5.0	50.00		98.4	70	139	48.48	1.43	20	
Trichloroethene	48.13	5.0	50.00		96.3	70.1	144	48.65	1.07	20	
Surr: 4-Bromofluorobenzene	41.42	0	50.00		82.8	70.6	123	40.05	0	0	
Surr: Dibromofluoromethane	47.00	0	50.00		94.0	78.7	124	47.23	0	0	
Surr: Toluene-d8	46.93	0	50.00		93.9	81.3	120	46.96	0	0	

Qualifiers:

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

Appendix III – Georgia EPD Correspondence

SEP 13 2010

Georgia Department of Natural Resources

2 Martin Luther King, Jr. Dr. S.E., Suite 1462 East, Atlanta, Georgia 30334
Chris Clark, Commissioner
Environmental Protection Division
F. Allen Barnes, Director
Land Protection Branch
Mark Smith, Branch Chief

Reply To:
Response and Remediation Program
2 Martin Luther King, Jr. Drive, S.E.
Suite 1462, East Tower
Atlanta, Georgia 30334-9000
Office 404-657-8600 Fax 404-657-0807

September 9, 2010

COPY

Mr. Tom Scruggs, P.E.
Assist. State Material and Research Engineer
Georgia Department of Transportation
Office of Materials and Research
15 Kennedy Drive
Forest Park, GA 30297

Re: Comments on Risk Reduction Standards
Georgia DOT – Gainesville District Office
Gainesville, Hall County, Georgia
HSI Site No. 10759

Dear Mr. Scruggs:

The Georgia Environmental Protection Division (EPD) has reviewed the May 12, 2010 Risk Reduction Standards submitted by S&ME, Inc. for the Georgia DOT – Gainesville District Office Site in Gainesville, Georgia. Please consider the following comments:

1. **Table 1:** The toxicity values provided for Toluene are incorrect. The correct values are provided below. Please incorporate the correct values in all RAGS equations.
   RfDo: 8E-02 (mg/kg-day)
   RfDi: 1.4 (mg/kg-day)
   SFo: No value
   SFi: No Value

2. **Table 2A:** Please change units to mg/L instead of mg/kg for Equation 1 and 2 values.

3. **Table 2B:** The Type 4 groundwater RRS values are correct for all substances except Toluene. Please revise based on the correct toxicity values provided above. The Type 3 groundwater RRS values are correct for all substances except cis-1,2-Dichloeoethene and Chloroform. Please note that the Appendix III, Table 1 value for cis-1,2-DCE and Chloroform have been updated pursuant to the adoption of the amendments to Chapter 391-3-19, Rules for Hazardous Site Response[1]. The current values for these substances are 0.07mg/L and 0.08 mg/L respectively. Please update the groundwater Type 3 RRS for these substances based on these values.

4. **Table 3A:** It was noted that the chemical-specific parameters for the leachability calculations and calculation of volatilization factors (VFs) were obtained from the Soil Screening Guidance Technical Background Document. Please note that EPD's preferred hierarchy for chemical-specific parameters is:

---

1 Rules of Georgia Department of Natural Resources, Environmental Protection Program, Chapter 391-3-19, Hazardous Site Response, 1996.

1. EPA Regional Screening Level table (RSL table)
2. Soil Screening Guidance Technical Background Document
3. SCDM

Please revise the input parameters, and recalculate the leachability values and VFs based on this hierarchy. It should be noted here the correct equation to calculate the VF terms is given in Appendix III, Table 3 of the Rules. Please do not use RAGS Equation 8 to calculate the VFs. All VF calculations will need to be revised. Please note that the VF term will affect the health risk-based cancer and non-cancer values for soil and groundwater.

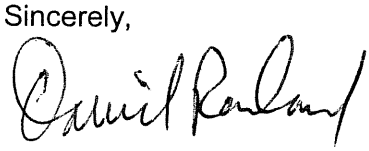
4. **Table 3B:** Please revise the RAGS equation values based on the correct VF term, and toxicity factor (in the case of Toluene). Please indicate why cancer and non-cancer risk calculations were not performed for 1,1,1,2-PCA.

5. **Table 3C:** The subsurface soil (All soil) Type 3 RRS values are correct for all substances. The surface soil Type 3 RRS are correct for all substances except 1,1-DCA and Chloroform. Please revise these health-based risk values using the correct VF term.

6. **Table 3E:** The Appendix I (HSRA NC) values are incorrect. It appears to be a transposition error. Please change "Appendix III" to read "Appendix I" under the "reasoning" column. Please indicate why cancer and non-cancer risk calculations were not performed for 1,1,1,2-PCA. All leaching values will need to be revised based on the correct input parameters obtained from the RSL table (see comment 3 above).

Please provide responses to the above comments by December 9, 2010. A proposed pilot test plan, a milestone schedule, and a response to EPD's January 6, 2009 letter must also be submitted by December 9, 2010. If you have any questions, please contact Jessica McCarron at (404) 657-8600.

Sincerely,



David Reuland
Unit Coordinator
Response & Remediation Program

cc: William J. Wagner, S&ME
S:\RDRIVE\JMcCarron\HSI\Gainesville DOT\Response on RRS.doc

Georgia Department of Natural Resources
2 Martin Luther King, Jr. Dr. S.E., Suite 1462 East, Atlanta, Georgia 30334
Mark Williams, Commissioner
Environmental Protection Division
F. Allen Barnes, Director
Land Protection Branch
Mark Smith, Branch Chief
404-657-8600

February 4, 2011

Mr. Tom Scruggs, P.E.
Assist. State Material and Research Engineer
Georgia Department of Transportation
Office of Materials and Research
15 Kennedy Drive
Forest Park, GA 30297

Re: December 2010 Risk Reduction Standards
Georgia DOT – Gainesville District Office
Gainesville, Hall County, Georgia
HSI Site No. 10759

Dear Mr. Scruggs:

The Georgia Environmental Protection Division (EPD) has reviewed the December 9, 2010 Response to Comments on Risk Reduction Standards (RRS) submitted by S&ME, Inc. for the Georgia DOT – Gainesville District Office Site in Gainesville, Georgia. The response to EPD comments and necessary revisions are acceptable, with the following exception:

Table 3A: It was noted that in calculation of the Volatilization Factor (VF), the Foc of 0.02 is used (not 0.002), which is correct. However, in the leachability calculations (Table 3D), the Foc should be 0.002 (0.2%) as cited in Equation B-13 of the Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. Please revise all leachability values and revise Tables 3D and 3E.

Likewise, the soil Type 4 RRS is based on leachability, but the calculations are incorrect as stated above due to an incorrect Foc value. If EPD-proposed leachability values are not used, please update toxicity values and all human health-based risk values.

Updated calculations may be included with the pilot test progress report as required by our January 18, 2011 letter. If you have any questions, please contact Jessica McCarron or Kristen Ritter Rivera at (404) 657-8600.

Sincerely,

David Reuland
Unit Coordinator
Response & Remediation Program

cc: William J. Wagner, S&ME
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Georgia Department of Natural Resources
2 Martin Luther King, Jr. Dr. S.E., Suite 1462 East, Atlanta, Georgia 30334
Mark Williams, Commissioner
Environmental Protection Division
F. Allen Barnes, Director
Land Protection Branch
Keith M. Bentley, Branch Chief

Reply To:
Response and Remediation Program
2 Martin Luther King, Jr. Drive, S.E.
Suite 1462, East Tower
Atlanta, Georgia 30334-9000
Office 404-657-8600 Fax 404-657-0807

June 29, 2012

FILE COPY

Mr. Tom Scruggs, P.E.
Assist. State Material and Research Engineer
Georgia Department of Transportation
Office of Materials and Research
15 Kennedy Drive
Forest Park, GA 30297

Re: Comments on July 2011 and April 2012 Progress Reports
Georgia DOT – Gainesville District Office
Gainesville, Hall County, Georgia
HSI Site No. 10759

Dear Mr. Scruggs:

The Environmental Protection Division (EPD) has reviewed the July 2011 and April 2012 progress reports submitted for the Georgia Department of Transportation – Gainesville District Office site. EPD has the following comments:

July 2011 Progress Report

1. The radius of influence map present in Figure 4 shows 3 radii around each monitoring well and one radius for each injection well, for a total or 9 radii. EPD disagrees with this representation because injections were only conducted in injection wells I-3, I-4, and I-8. Radii of influence can only be estimated for these 3 wells. It is not accurate to project the same estimated radius of influence for the other injection wells with inadequate supporting data. This figure must be revised.

April 2012 Progress Report

2. Sampling for metals must continue in wells where data shows metals have mobilized. Elevated concentrations of total and hexavalent chromium were observed in MW-1, MW-2, and MW-13. Additionally, arsenic was detected in MW-2.
3. Delineation wells MW-5 and MW-12 are consistently dry and cannot be sampled. Georgia DOT must propose deeper replacement wells for these locations.
4. Related to comment #3, injections of persulfate are proposed in all injection wells surrounding MW-2 and MW-13. Because it is difficult to assess the effectiveness of corrective action in wells that are dry, deeper monitoring wells must be installed downgradient of the injection well clusters for performance monitoring. These wells should be equipped with, at minimum, a 10' well screen and should be installed to depths similar to MW-1 (60') and MW-2 (50') to ensure that groundwater will be encountered. A baseline sampling event, including metals, must be conducted at these new wells and radius of influence must be measured once injections commence.

5. The Type 3 groundwater RRS for 1,4-dioxane of 0.150 mg/L shown in Table 4A is incorrect. The correct Type 3 groundwater RRS for 1,4-dioxane, as presented in the December 2010 RTC on RRS and approved by EPD on February 4, 2011, is 0.019 mg/L. The laboratory reporting limit for 1,4-dioxane during the January 2012 monitoring event was 0.150 mg/L, which is higher than the approved Type 3 groundwater RRS. The laboratory reporting limit must be lower than the approved RRS. With the approved modifications to the EPA 8260 method, detection limits for 1,4-dioxane of 2 mg/L (0.002 mg/L) are possible.

Groundwater Sampling

6. Section 3.4 *Groundwater Sampling Methodology and Locations* on page 3 of both the July 2011 and April 2012 Progress Reports states the pump intake was placed near the top of measured groundwater for purging and sampling. This section continues stating that depth to water was measured frequently during the purging process. Page 4 states that if depth to groundwater could not be maintained within ±0.3 feet or if a steady flow of water from the sampling tubing could not be maintained while maintaining a steady depth to groundwater, then the well was purged of 3 to 5-well volumes or the well was pumped or bailed dry and allowed to recharge before collecting a sample.

   It appears that in January, April, and August 2011, two low-flow purging methods were combined during groundwater sampling, the Tubing-in-Screen method and the 3-well volume purge method. In accordance with the October 2011 USEPA Region 4 SESD "Groundwater Sampling" Operating Procedure (SESDPROC-301-R2), when purging using the Tubing-in-Screen method, the pump should be *carefully* placed in the approximate *mid-portion of the screened interval* with minimum disturbance to the well. In accordance with Region 4's Groundwater Sampling Operating Procedure (OP), when using the Tubing-in-Screen method, there should only be a slight and stable drawdown of the water column after pumping begins (within ±0.3 feet). If this condition cannot be met, then one of the other methods should be employed. For the 3-well volume purge method, the tubing or pump intake is placed in the *very uppermost portion of the water column* while purging. For those wells in which 3-well volumes or more were purged, the placement of the pump was correct.

   For monitoring wells MW-1D, MW-2D, MW-3D, MW-4D, and MW-8 sampled in April 2011, an adequate purge was not achieved due to placement of the pump, greater than 0.3 feet of drawdown during purging, and less than 3-well volumes purged.

   It may be appropriate for some wells to be purged and sampled using the tubing-in-screen method. However, the pump **must** be placed in the *mid-portion* of the screen. If during purging, the purge rate cannot match the recharge rate and drawdown becomes excessive, the pump should be raised to the top of the water column and the 3-well volume purge method employed. Sampling appeared to be more consistent with appropriate purging and sampling techniques during the January 2012 event.

   As stated in Section 3.2.1.1.3 Purge Adequacy Considerations in Region 4's Groundwater Sampling OP, ***it is particularly important that wells be sampled as soon as possible after purging.*** If adequate volume is available immediately upon completion of purging, the well must be sampled immediately. If not, sampling should occur as soon as adequate volume has recovered. If possible, sampling of wells that have a slow recovery should be scheduled so that they can be purged and sampled in the same day, after adequate volume has recovered.

7. Many monitoring wells were sampled when turbidity readings were elevated. Please ensure the pump is not lowered to the bottom of the well and then pulled up to the appropriate purging and sampling depth to avoid disturbing sediment that may have collected at the bottom of the well. Additionally, depth to bottom of well is included on the field data sheets. If the depth to bottom of well is measured by lowering the water level meter to the bottom of the well, this may also cause resuspension of any sediment that has collected at the bottom of the well. Turbidity readings should be stable and less than 10 NTUs prior to sample collection.

Tables/Data Sheets/Figures

8. Total well depth must be included on Table 1.
9. The following must be included on field data sheets:
    a. Purging start time;
    b. Depth-to-water measurements and times when using the tubing-in-screen purging method at every interval in which groundwater parameters are collected. Some of the August 2011 and January 2012 field data sheets seem to provide this information, but it is not clear. It would be preferable if dedicated columns were added to the table for time and depth-to-water measurements; and
    c. Depth of pump/tubing intake. Again, this information seemed to be provided on most of the January 2012 sheets, but was not clear.

Schedule

10. Gainesville DOT must provide an updated milestone schedule, describing the proposed future injection events, sampling events, and report submissions by July 31, 2012. A Gantt chart format is preferred for presentation of the updated milestone schedule.

Please provide responses to the above comments in a response-to-comment format along with a proposed schedule by July 31, 2012. If you have any questions, please contact Jessica McCarron at (404) 657-0485.

Sincerely,

David Reuland
Unit Coordinator
Response & Remediation Program

cc: William J. Wagner, S&ME
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Appendix IV – Mann-Kendall Data

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	2-Sep-15	Job ID:	446814073
Facility Name:	Georgia DOT Gainesville, GA	Constituent:	1,4-Dioxane
Conducted By:	44681407	Concentration Units:	mg/L

Sampling Point ID:	MW-13	MW-3D	MW-2	MW-1			
Sampling Event	Sampling Date	1,4-DIOXANE CONCENTRATION (mg/L)						
1	26-Jan-10	0.61	0.075	0.075	0.075			
2	12-Apr-11	0.91	0.21	0.075	0.075			
3	4-Aug-11	0.64	0.075	0.075	0.075			
4	24-Jan-12		0.075	0.075	0.075			
5	27-Oct-14	0.075	0.19	0.075	0.075			
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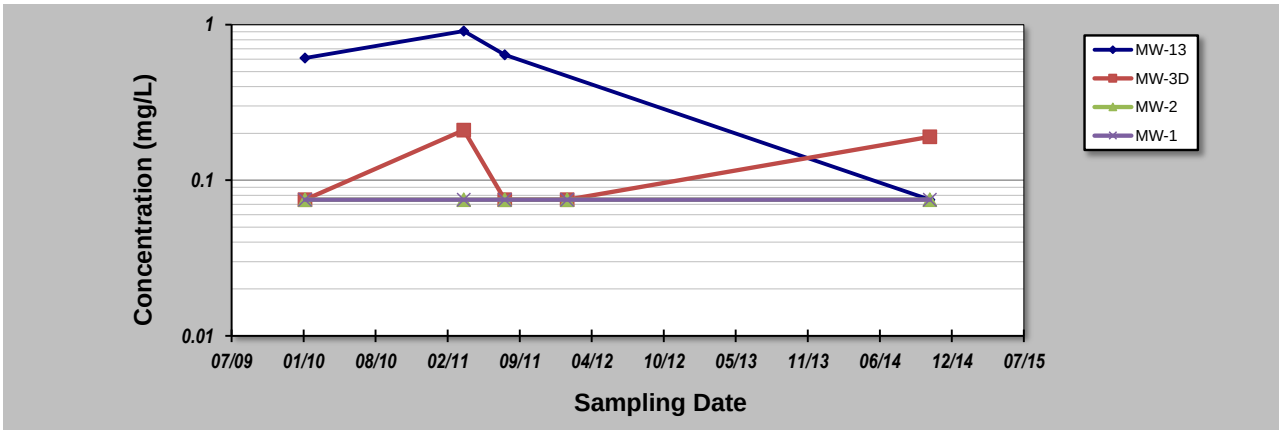
Coefficient of Variation:		0.63	0.55	0.00	0.00			
Mann-Kendall Statistic (S):		-2	1	0	0			
Confidence Factor:		62.5%	50.0%	40.8%	40.8%			
Concentration Trend:		Stable	No Trend	Stable	Stable			



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	2-Sep-15	Job ID:	446814073
Facility Name:	Georgia DOT Gainesville, GA	Constituent:	1,2 DCA
Conducted By:	44681407	Concentration Units:	mg/L

Sampling Point ID:	MW-13	MW-3D	MW-2	MW-1			
Sampling Event	Sampling Date	1,2 DCA CONCENTRATION (mg/L)						
1	26-Jan-10	0.011	0.0025	0.0061	0.0025			
2	12-Apr-11	0.0025	0.0025	0.0025	0.0025			
3	4-Aug-11	0.016	0.0025	0.0057	0.0025			
4	24-Jan-12		0.0025	0.0025	0.0025			
5	27-Oct-14	0.0068	0.0025	0.0025	0.0025			
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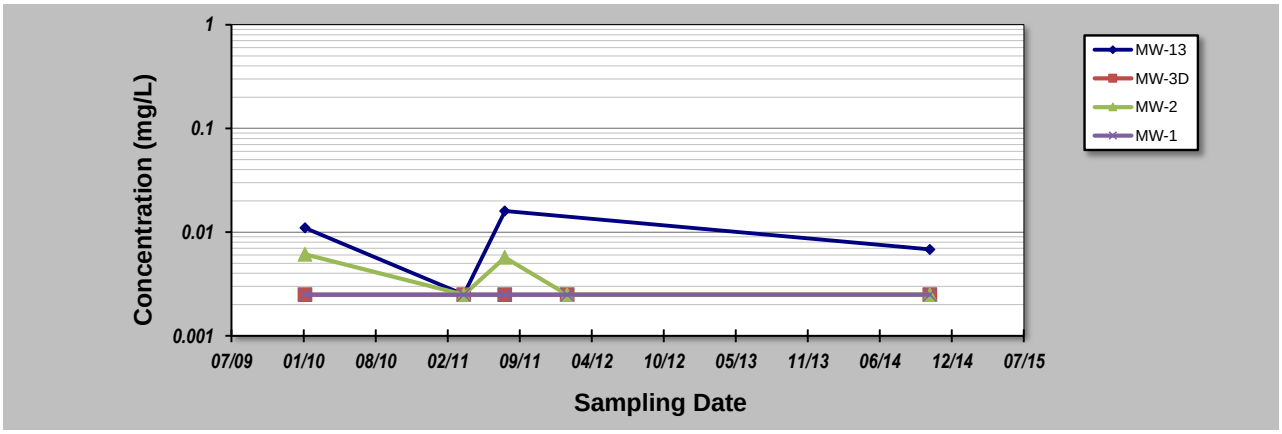
Coefficient of Variation:		0.64	0.00	0.48	0.00			
Mann-Kendall Statistic (S):		0	0	-5	0			
Confidence Factor:		37.5%	40.8%	82.1%	40.8%			
Concentration Trend:		Stable	Stable	Stable	Stable			



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	2-Sep-15	Job ID:	446814073
Facility Name:	Georgia DOT Gainesville, GA	Constituent:	1,1 DCE
Conducted By:	44681407	Concentration Units:	mg/L

Sampling Point ID:	MW-13	MW-3D	MW-2	MW-1			
Sampling Event	Sampling Date	1,1 DCE CONCENTRATION (mg/L)						
1	26-Jan-10	0.51	0.0025	0.39	0.58			
2	12-Apr-11	1.2	0.0025	0.019	0.03			
3	4-Aug-11	0.032	0.0025	0.014	0.0095			
4	24-Jan-12		0.0025	0.0025	0.014			
5	27-Oct-14	0.0068	0.0025	0.1	0.13			
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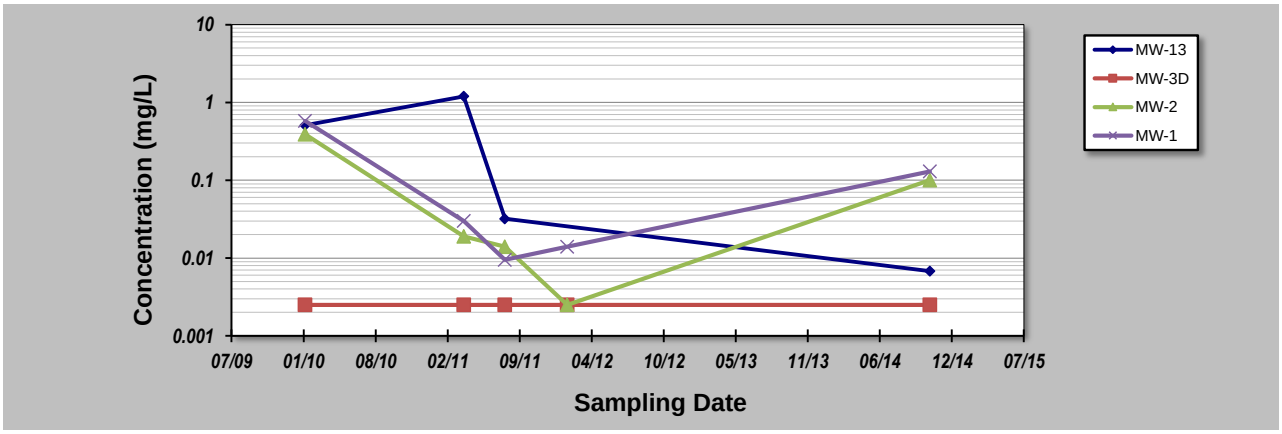
Coefficient of Variation:		1.28	0.00	1.56	1.60			
Mann-Kendall Statistic (S):		-4	0	-4	-2			
Confidence Factor:		83.3%	40.8%	75.8%	59.2%			
Concentration Trend:		No Trend	Stable	No Trend	No Trend			



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	2-Sep-15	Job ID:	446814073
Facility Name:	Georgia DOT Gainesville, GA	Constituent:	PCE
Conducted By:	44681407	Concentration Units:	mg/L

Sampling Point ID:	MW-13	MW-3D	MW-2	MW-1			
Sampling Event	Sampling Date	PCE CONCENTRATION (mg/L)						
1	26-Jan-10	0.015	0.0025	0.0027	0.014			
2	12-Apr-11	0.0025	0.0025	0.007	0.023			
3	4-Aug-11	0.016	0.0025	0.0025	0.0092			
4	24-Jan-12		0.0025	0.0088	0.015			
5	27-Oct-14	0.012	0.0025	0.0025	0.0025			
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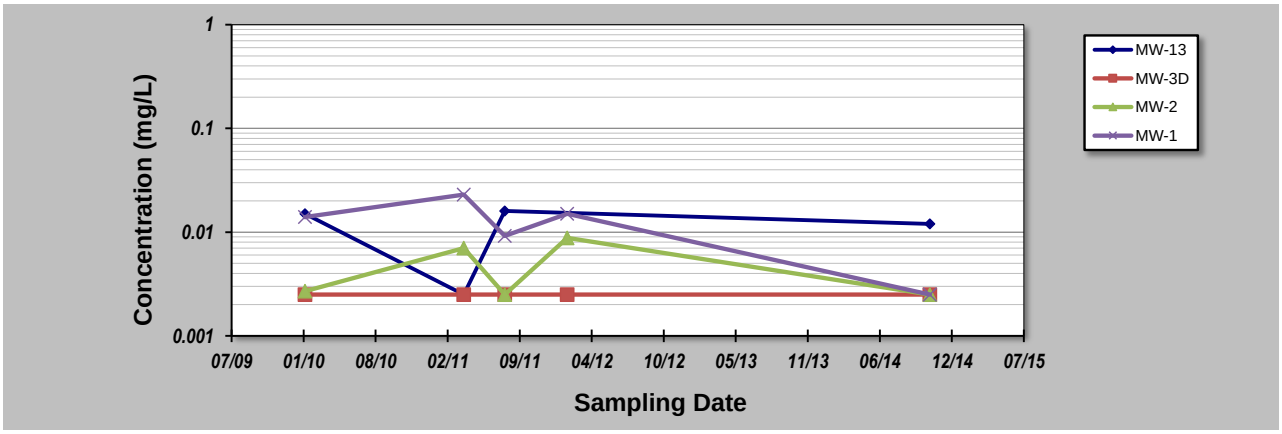
Coefficient of Variation:		0.54	0.00	0.64	0.59			
Mann-Kendall Statistic (S):		0	0	-1	-4			
Confidence Factor:		37.5%	40.8%	50.0%	75.8%			
Concentration Trend:		Stable	Stable	Stable	Stable			



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.

Appendix V – VISL Data

OSWER VAPOR INTRUSION ASSESSMENT
Groundwater Concentration to Indoor Air Concentration (GWC-IAC) Calculator Version 3.4, June 2015 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Residential	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR	1.00E-06	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)
Average Groundwater Temperature (^{o}C)	Tgw	25	Enter average of the stabilized groundwater temperature to correct Henry's Law Constant for groundwater target concentrations

	CAS	Chemical Name	Site Groundwater Concentration Cgw (ug/L)	Calculated Indoor Air Concentration Cia (ug/m^3)	VI Carcinogenic Risk CR	VI Hazard HQ	Inhalation Unit Risk IUR (ug/m^3)$^{-1}$	IUR Source*	Reference Concentration RfC (mg/m^3)	RFC Source*	Mutagenic Indicator i
x	75-07-0	Acetaldehyde		--	--	--	2.20E-06	I	9.00E-03	I	
	67-64-1	Acetone		--	--	--			3.10E+01	A	
	75-86-5	Acetone Cyanohydrin		--	--	--			2.00E-03	X	
	75-05-8	Acetonitrile		--	--	--			6.00E-02	I	
	107-02-8	Acrolein		--	--	--			2.00E-05	I	
	79-10-7	Acrylic Acid		--	--	--			1.00E-03	I	
	107-13-1	Acrylonitrile		--	--	--	6.80E-05	I	2.00E-03	I	
	309-00-2	Aldrin		--	--	--	4.90E-03	I			
	107-18-6	Allyl Alcohol		--	--	--			1.00E-04	X	
	107-05-1	Allyl Chloride		--	--	--	6.00E-06	CA	1.00E-03	I	
	7664-41-7	Ammonia		--	--	--			1.00E-01	I	
	75-85-4	Amyl Alcohol, tert-		--	--	--			3.00E-03	X	
	12674-11-2	Aroclor 1016		--	--	--	2.00E-05	S			
	11104-28-2	Aroclor 1221		--	--	--	5.70E-04	S			
	11141-16-5	Aroclor 1232		--	--	--	5.70E-04	S			
	53469-21-9	Aroclor 1242		--	--	--	5.70E-04	S			
	12672-29-6	Aroclor 1248		--	--	--	5.70E-04	S			
	11097-69-1	Aroclor 1254		--	--	--	5.70E-04	S			
	11096-82-5	Aroclor 1260		--	--	--	5.70E-04	S			
x	103-33-3	Azobenzene		--	--	--	3.10E-05	I			
	56-55-3	Benz[a]anthracene		--	--	--	1.10E-04	CA			Mut
	71-43-2	Benzene		--	--	--	7.80E-06	I	3.00E-02	I	
	100-44-7	Benzyl Chloride		--	--	--	4.90E-05	CA	1.00E-03	P	
	92-52-4	Biphenyl, 1,1'-		--	--	--			4.00E-04	X	
	108-60-1	Bis(2-chloro-1-methylethyl) ether		--	--	--	1.00E-05	H			
	111-44-4	Bis(2-chloroethyl)ether		--	--	--	3.30E-04	I			
	542-88-1	Bis(chloromethyl)ether		--	--	--	6.20E-02	I			
	10294-34-5	Boron Trichloride		--	--	--			2.00E-02	P	
	7637-07-2	Boron Trifluoride		No HLC	--	--			1.30E-02	CA	
	107-04-0	Bromo-2-chloroethane, 1-		--	--	--	6.00E-04	X			
	108-86-1	Bromobenzene		--	--	--			6.00E-02	I	
	74-97-5	Bromochloromethane		--	--	--			4.00E-02	X	
	75-27-4	Bromodichloromethane		--	--	--	3.70E-05	CA			
	75-25-2	Bromoform		--	--	--	1.10E-06	I			
	74-83-9	Bromomethane		--	--	--			5.00E-03	I	
	106-99-0	Butadiene, 1,3-		--	--	--	3.00E-05	I	2.00E-03	I	
	78-92-2	Butyl alcohol, sec-		--	--	--			3.00E+01	P	
	75-15-0	Carbon Disulfide		--	--	--			7.00E-01	I	
	56-23-5	Carbon Tetrachloride	5.8E-03	6.54E-03	1.4E-08	6.3E-05	6.00E-06	I	1.00E-01	I	
	12789-03-6	Chlordane		--	--	--	1.00E-04	I	7.00E-04	I	
	7782-50-5	Chlorine		--	--	--			1.50E-04	A	
	10049-04-4	Chlorine Dioxide		--	--	--			2.00E-04	I	
	75-68-3	Chloro-1,1-difluoroethane, 1-		--	--	--			5.00E+01	I	
	126-99-8	Chloro-1,3-butadiene, 2-		--	--	--	3.00E-04	I	2.00E-02	I	
	108-90-7	Chlorobenzene		--	--	--			5.00E-02	P	
	98-56-6	Chlorobenzotrifluoride, 4-		--	--	--			3.00E-01	P	
	75-45-6	Chlorodifluoromethane		--	--	--			5.00E+01	I	
	67-66-3	Chloroform		--	--	--	2.30E-05	I	9.80E-02	A	
	74-87-3	Chloromethane		--	--	--			9.00E-02	I	
	107-30-2	Chloromethyl Methyl Ether		--	--	--	6.90E-04	CA			
	76-06-2	Chloropicrin		--	--	--			4.00E-04	CA	
	8007-45-2	Coke Oven Emissions		--	--	--	6.20E-04	I			Mut
	98-82-8	Cumene		--	--	--			4.00E-01	I	
x	57-12-5	Cyanide (CN-)		--	--	--			8.00E-04	S	
	110-82-7	Cyclohexane		--	--	--			6.00E+00	I	
	108-94-1	Cyclohexanone		--	--	--			7.00E-01	P	
	110-83-8	Cyclohexene		--	--	--			1.00E+00	X	
	72-55-9	DDE, p,p'-		--	--	--	9.70E-05	CA			
	96-12-8	Dibromo-3-chloropropane, 1,2-		--	--	--	6.00E-03	P	2.00E-04	I	Mut
	124-48-1	Dibromochloromethane		--	--	--	2.70E-05	CA			

OSWER VAPOR INTRUSION ASSESSMENT
Groundwater Concentration to Indoor Air Concentration (GWC-IAC) Calculator Version 3.4, June 2015 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Residential	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR	1.00E-06	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)
Average Groundwater Temperature (^{o}C)	Tgw	25	Enter average of the stabilized groundwater temperature to correct Henry's Law Constant for groundwater target concentrations

	CAS	Chemical Name	Site Groundwater Concentration Cgw (ug/L)	Calculated Indoor Air Concentration Cia (ug/m^3)	VI Carcinogenic Risk CR	VI Hazard HQ	Inhalation Unit Risk IUR (ug/m^3)$^{-1}$	IUR Source*	Reference Concentration RfC (mg/m^3)	RFC Source*	Mutagenic Indicator i
	106-93-4	Dibromoethane, 1,2-		--	--	--	6.00E-04	I	9.00E-03	I	
	74-95-3	Dibromomethane (Methylene Bromide)		--	--	--			4.00E-03	X	
	764-41-0	Dichloro-2-butene, 1,4-		--	--	--	4.20E-03	P			
	1476-11-5	Dichloro-2-butene, cis-1,4-		--	--	--	4.20E-03	P			
	110-57-6	Dichloro-2-butene, trans-1,4-		--	--	--	4.20E-03	P			
	95-50-1	Dichlorobenzene, 1,2-		--	--	--			2.00E-01	H	
	106-46-7	Dichlorobenzene, 1,4-		--	--	--	1.10E-05	CA	8.00E-01	I	
	75-71-8	Dichlorodifluoromethane		--	--	--			1.00E-01	X	
	75-34-3	Dichloroethane, 1,1-		--	--	--	1.60E-06	CA			
	107-06-2	Dichloroethane, 1,2-	1.6E-02	7.72E-04	7.1E-09	1.1E-04	2.60E-05	I	7.00E-03	P	
	75-35-4	Dichloroethylene, 1,1-	2.7E+00	2.88E+00	No IUR	1.4E-02			2.00E-01	I	
	78-87-5	Dichloropropane, 1,2-		--	--	--	1.00E-05	CA	4.00E-03	I	
	542-75-6	Dichloropropene, 1,3-		--	--	--	4.00E-06	I	2.00E-02	I	
	77-73-6	Dicyclopentadiene		--	--	--			3.00E-04	X	
	75-37-6	Difluoroethane, 1,1-		--	--	--			4.00E+01	I	
	94-58-6	Dihydrosafrole		--	--	--	1.30E-05	CA			
	108-20-3	Diisopropyl Ether		--	--	--			7.00E-01	P	
	68-12-2	Dimethylformamide		--	--	--			3.00E-02	I	
	57-14-7	Dimethylhydrazine, 1,1-		--	--	--			2.00E-06	X	
	540-73-8	Dimethylhydrazine, 1,2-		--	--	--	1.60E-01	CA			
	513-37-1	Dimethylvinylchloride		--	--	--	1.30E-05	CA			
	123-91-1	Dioxane, 1,4-	9.1E-01	1.79E-04	3.2E-10	5.7E-06	5.00E-06	I	3.00E-02	I	
	106-89-8	Epichlorohydrin		--	--	--	1.20E-06	I	1.00E-03	I	
	106-88-7	Epoxybutane, 1,2-		--	--	--			2.00E-02	I	
	111-15-9	Ethoxyethanol Acetate, 2-		--	--	--			6.00E-02	P	
	110-80-5	Ethoxyethanol, 2-		--	--	--			2.00E-01	I	
	141-78-6	Ethyl Acetate		--	--	--			7.00E-02	P	
	75-00-3	Ethyl Chloride (Chloroethane)		--	--	--			1.00E+01	I	
	97-63-2	Ethyl Methacrylate		--	--	--			3.00E-01	P	
	100-41-4	Ethylbenzene		--	--	--	2.50E-06	CA	1.00E+00	I	
	75-21-8	Ethylene Oxide		--	--	--	8.80E-05	CA	3.00E-02	CA	
	151-56-4	Ethyleneimine		--	--	--	1.90E-02	CA			
	50-00-0	Formaldehyde		--	--	--	1.30E-05	I	9.80E-03	A	
	64-18-6	Formic Acid		--	--	--			3.00E-04	X	
	98-01-1	Furfural		--	--	--			5.00E-02	H	
	765-34-4	Glycidyl		--	--	--			1.00E-03	H	
	76-44-8	Heptachlor		--	--	--	1.30E-03	I			
	1024-57-3	Heptachlor Epoxide		--	--	--	2.60E-03	I			
	39635-31-9	Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)		--	--	--	1.10E-03	E	1.30E-03	E	
	118-74-1	Hexachlorobenzene		--	--	--	4.60E-04	I			
	38380-08-4	Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)		--	--	--	1.10E-03	E	1.30E-03	E	
	69782-90-7	Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)		--	--	--	1.10E-03	E	1.30E-03	E	
	52663-72-6	Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)		--	--	--	1.10E-03	E	1.30E-03	E	
	32774-16-6	Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)		--	--	--	1.10E+00	E	1.30E-06	E	
	87-68-3	Hexachlorobutadiene		--	--	--	2.20E-05	I			
	77-47-4	Hexachlorocyclopentadiene		--	--	--			2.00E-04	I	
x	67-72-1	Hexachloroethane		--	--	--	1.10E-05	CA	3.00E-02	I	
	822-06-0	Hexamethylene Diisocyanate, 1,6-		--	--	--			1.00E-05	I	
	110-54-3	Hexane, N-		--	--	--			7.00E-01	I	
	591-78-6	Hexanone, 2-		--	--	--			3.00E-02	I	
	302-01-2	Hydrazine		--	--	--	4.90E-03	I	3.00E-05	P	
	7647-01-0	Hydrogen Chloride		--	--	--			2.00E-02	I	
	74-90-8	Hydrogen Cyanide		--	--	--			8.00E-04	I	
	7664-39-3	Hydrogen Fluoride		--	--	--			1.40E-02	CA	
	7783-06-4	Hydrogen Sulfide		--	--	--			2.00E-03	I	
	67-63-0	Isopropanol		--	--	--			2.00E-01	P	
	7439-97-6	Mercury (elemental)		--	--	--			3.00E-04	I	
	126-98-7	Methacrylonitrile		--	--	--			3.00E-02	P	
	67-56-1	Methanol		--	--	--			2.00E+01	I	
	110-49-6	Methoxyethanol Acetate, 2-		--	--	--			1.00E-03	P	

OSWER VAPOR INTRUSION ASSESSMENT
Groundwater Concentration to Indoor Air Concentration (GWC-IAC) Calculator Version 3.4, June 2015 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Residential	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR	1.00E-06	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)
Average Groundwater Temperature (^{o}C)	Tgw	25	Enter average of the stabilized groundwater temperature to correct Henry's Law Constant for groundwater target concentrations

CAS	Chemical Name	Site Groundwater Concentration Cgw (ug/L)	Calculated Indoor Air Concentration Cia (ug/m^3)	VI Carcinogenic Risk CR	VI Hazard HQ	Inhalation Unit Risk IUR (ug/m^3)$^{-1}$	IUR Source*	Reference Concentration RfC (mg/m^3)	RFC Source*	Mutagenic Indicator i
109-86-4	Methoxyethanol, 2-		--	--	--			2.00E-02	I	
96-33-3	Methyl Acrylate		--	--	--			2.00E-02	P	
78-93-3	Methyl Ethyl Ketone (2-Butanone)		--	--	--			5.00E+00	I	
60-34-4	Methyl Hydrazine		--	--	--	1.00E-03	X	2.00E-05	X	
108-10-1	Methyl Isobutyl Ketone (4-methyl-2-pentanone)		--	--	--			3.00E+00	I	
624-83-9	Methyl Isocyanate		--	--	--			1.00E-03	CA	
80-62-6	Methyl Methacrylate		--	--	--			7.00E-01	I	
25013-15-4	Methyl Styrene (Mixed Isomers)		--	--	--			4.00E-02	H	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		--	--	--	2.60E-07	CA	3.00E+00	I	
75-09-2	Methylene Chloride		--	--	--	1.00E-08	I	6.00E-01	I	Mut
2385-85-5	Mirex		--	--	--	5.10E-03	CA			
64742-95-6	Naphtha, High Flash Aromatic (HFAN)		No HLC	--	--			1.00E-01	P	
91-20-3	Naphthalene		--	--	--	3.40E-05	CA	3.00E-03	I	
13463-39-3	Nickel Carbonyl		No HLC	--	--	2.60E-04	CA	1.40E-05	CA	
98-95-3	Nitrobenzene		--	--	--	4.00E-05	I	9.00E-03	I	
75-52-5	Nitromethane		--	--	--	8.80E-06	P	5.00E-03	P	
79-46-9	Nitropropane, 2-		--	--	--	2.70E-03	H	2.00E-02	I	
62-75-9	Nitrosodimethylamine, N-		--	--	--	1.40E-02	I	4.00E-05	X	Mut
924-16-3	Nitroso-di-N-butylamine, N-		--	--	--	1.60E-03	I			
10595-95-6	Nitrosomethylethylamine, N-		--	--	--	6.30E-03	CA			
111-84-2	Nonane, n-		--	--	--			2.00E-02	P	
32598-14-4	Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)		--	--	--	1.10E-03	E	1.30E-03	E	
74472-37-0	Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)		--	--	--	1.10E-03	E	1.30E-03	E	
31508-00-6	Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)		--	--	--	1.10E-03	E	1.30E-03	E	
65510-44-3	Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)		--	--	--	1.10E-03	E	1.30E-03	E	
57465-28-8	Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)		--	--	--	3.80E+00	E	4.00E-07	E	
109-66-0	Pentane, n-		--	--	--			1.00E+00	P	
75-44-5	Phosgene		--	--	--			3.00E-04	I	
7803-51-2	Phosphine		--	--	--			3.00E-04	I	
123-38-6	Propionaldehyde		--	--	--			8.00E-03	I	
103-65-1	Propyl benzene		--	--	--			1.00E+00	X	
115-07-1	Propylene		--	--	--			3.00E+00	CA	
107-98-2	Propylene Glycol Monomethyl Ether		--	--	--			2.00E+00	I	
75-56-9	Propylene Oxide		--	--	--	3.70E-06	I	3.00E-02	I	
100-42-5	Styrene		--	--	--			1.00E+00	I	
7446-11-9	Sulfur Trioxide		No HLC	--	--			1.00E-03	CA	
1746-01-6	TCDD, 2,3,7,8-		--	--	--	3.80E+01	CA	4.00E-08	CA	
70362-50-4	Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)		--	--	--	1.10E-02	E	1.30E-04	E	
630-20-6	Tetrachloroethane, 1,1,1,2-		--	--	--	7.40E-06	I			
79-34-5	Tetrachloroethane, 1,1,2,2-		--	--	--	5.80E-05	CA			
127-18-4	Tetrachloroethylene	2.6E-02	1.88E-02	1.7E-09	4.5E-04	2.60E-07	I	4.00E-02	I	
811-97-2	Tetrafluoroethane, 1,1,1,2-		--	--	--			8.00E+01	I	
109-99-9	Tetrahydrofuran		--	--	--			2.00E+00	I	
7550-45-0	Titanium Tetrachloride		No HLC	--	--			1.00E-04	A	
108-88-3	Toluene		--	--	--			5.00E+00	I	
76-13-1	Trichloro-1,2,2-trifluoroethane, 1,1,2-		--	--	--			3.00E+01	H	
120-82-1	Trichlorobenzene, 1,2,4-		--	--	--			2.00E-03	P	
71-55-6	Trichloroethane, 1,1,1-		--	--	--			5.00E+00	I	
79-00-5	Trichloroethane, 1,1,2-	7.6E-02	2.56E-03	1.5E-08	1.2E-02	1.60E-05	I	2.00E-04	X	
79-01-6	Trichloroethylene	7.4E-02	2.98E-02	1.2E-07	1.4E-02	4.10E-06	I	2.00E-03	I	Mut
75-69-4	Trichlorofluoromethane		--	--	--			7.00E-01	H	
96-18-4	Trichloropropane, 1,2,3-		--	--	--			3.00E-04	I	Mut
96-19-5	Trichloropropene, 1,2,3-		--	--	--			3.00E-04	P	
121-44-8	Triethylamine		--	--	--			7.00E-03	I	
526-73-8	Trimethylbenzene, 1,2,3-		--	--	--			5.00E-03	P	
95-63-6	Trimethylbenzene, 1,2,4-		--	--	--			7.00E-03	P	TCE
108-05-4	Vinyl Acetate		--	--	--			2.00E-01	I	
593-60-2	Vinyl Bromide		--	--	--	3.20E-05	H	3.00E-03	I	
75-01-4	Vinyl Chloride		--	--	--	4.40E-06	I	1.00E-01	I	Mut
108-38-3	Xylene, m-		--	--	--			1.00E-01	S	

OSWER VAPOR INTRUSION ASSESSMENT
Groundwater Concentration to Indoor Air Concentration (GWC-IAC) Calculator Version 3.4, June 2015 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Residential	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR	1.00E-06	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)
Average Groundwater Temperature (^{o}C)	Tgw	25	Enter average of the stabilized groundwater temperature to correct Henry's Law Constant for groundwater target concentrations

CAS	Chemical Name	Site Groundwater Concentration Cgw (ug/L)	Calculated Indoor Air Concentration Cia (ug/m^3)	VI Carcinogenic Risk CR	VI Hazard HQ
95-47-6	Xylene, o-		--	--	--
106-42-3	Xylene, P-		--	--	--
1330-20-7	Xylenes		--	--	--
140-88-5	Ethyl Acrylate		--	--	--

Inhalation Unit Risk IUR (ug/m^3)$^{-1}$	IUR Source*	Reference Concentration RfC (mg/m^3)	RFC Source*	Mutagenic Indicator i
		1.00E-01	S	
		1.00E-01	S	
		1.00E-01	I	
		8.00E-03	P	

Notes:

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

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

(2) **Generic Attenuation Factors:**

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

(3) **Formulas**

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

(4) **Special Case Chemicals**

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

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

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

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

Mutagenic-mode-of-action (MMOA) adjustment factor 72 — This factor is used in the equations for mutagenic chemicals.

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

Notation:

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

OSWER VAPOR INTRUSION ASSESSMENT
Groundwater Concentration to Indoor Air Concentration (GWC-IAC) Calculator Version 3.4, June 2015 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Residential	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR	1.00E-06	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)
Average Groundwater Temperature (^{o}C)	Tgw	25	Enter average of the stabilized groundwater temperature to correct Henry's Law Constant for groundwater target concentrations

CAS	Chemical Name	Site Groundwater Concentration Cgw (ug/L)	Calculated Indoor Air Concentration Cia (ug/m^3)	VI Carcinogenic Risk CR	VI Hazard HQ	Inhalation Unit Risk IUR ($ug/m^3)^{-1}$	IUR Source*	Reference Concentration RfC (mg/m^3)	RFC Source*	Mutagenic Indicator i

Pink highlighting indicates VI carcinogenic risk greater than the target risk for carcinogens (TCR) or VI Hazard greater than or equal to the target hazard quotient for non-carcinogens (THQ).