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August 20, 2018

Mr. David Brownlee
Unit Coordinator
Response and Remediation Program
Georgia Department of Natural Resources
2 Martin Luther King Jr. Drive, SE, Suite 1462 East
Atlanta, Georgia 30334

Reference: 0366660

Subject: Transmittal of Electronic Version of
Voluntary Remediation Program Compliance Status Report
Former Manufactured Gas Plant Site Macon, Georgia
HSI #10511

I have enclosed electronic versions of Transmittal of Electronic version Voluntary Remediation Program Compliance Status Report Former Manufactured Gas Plant Site Macon, Georgia HSI #10511 pdf files on Compact Disc to accompany the hard copy report. This certification states that the electronic copy is complete, identical to the paper copy and virus free.

I, Holly H. McDonald, on August 20, 2018 made a complete electronic copy of the following document:
Transmittal of Electronic Version of the Submittal of the
Voluntary Remediation Program Compliance Status Report
Former Manufactured Gas Plant Site Macon, Georgia
HSI #10511
then confirmed that the electronic copies did not contain a virus utilizing Symantec antivirus software.

You can contact me at 678.486.2700 with any questions or comments.

Best regards,

Holly H. McDonald

Office Manager, ERM Atlanta

Atlanta Gas Light

Greg Corbett, P.E.
Environmental Services
Director

Ten Peachtree Pl, NE
Atlanta, GA 30309
404-584-3719 tel
gcorbett@southernco.com

August 27, 2018

Mr. David Brownlee
Unit Coordinator
Response & Remediation Program
Environmental Protection Division
2 Martin Luther King Jr. Drive, Suite 1054
Atlanta, GA 30334

Subject: **Voluntary Remediation Program Compliance Status Report**
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia
HSI #10511

Dear Mr. Brownlee,

Enclosed please find one hardcopy and two electronic copies (on CDs) of the Voluntary Remediation Program Compliance Status Report (VRP CSR) for the Atlanta Gas Light Company (AGLC) former manufactured gas plant site located in Macon, Georgia (the "Site"). Please note that AGLC has had several inquiries regarding redevelopment plans for several properties on the Site. Considering this, AGLC would like to respectfully request an accelerated review and approval of the VRP CSR and Site closure so that we can move forward with Site restoration activities (such as well abandonment) as expeditiously as possible.

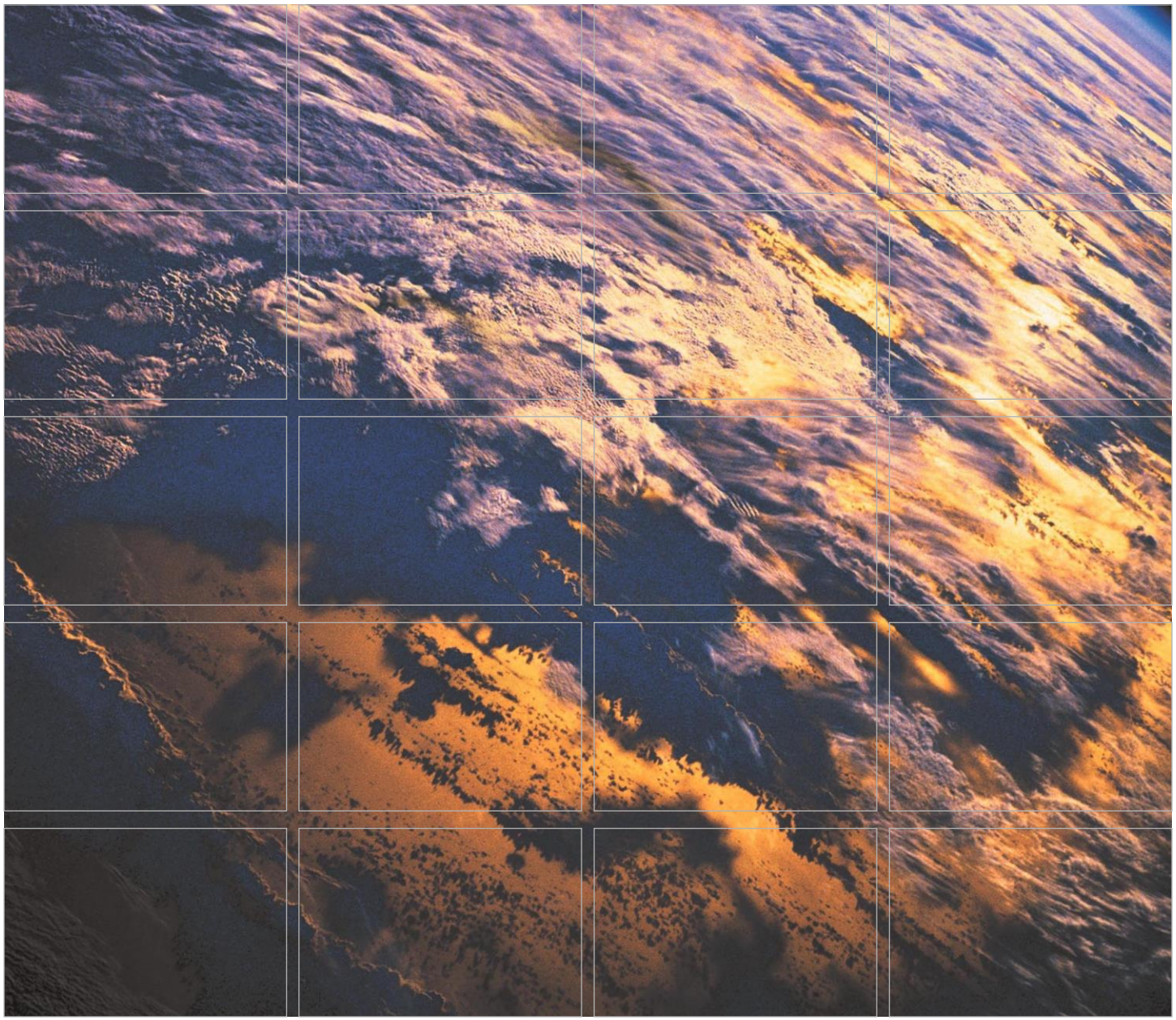
Please feel free to contact me at (404) 584-3719 or e-mail at gcorbett@southernco.com with any questions or comments on this submittal.

Sincerely,

Greg Corbett, P.E.
Environmental Services Director

Copy: ChiQuita George – Georgia Power Company
Scott Laseter - Kazmarek Mowrey Cloud Laseter LLP
Andrea Rimer – Troutman Sanders
Janey Chauvet – Georgia Public Service Commission

Enclosures: VRP CSR



Atlanta Gas Light Company

Atlanta Gas Light

Voluntary Remediation Program Compliance Status Report

Former Manufactured Gas Plant Site
Macon, Georgia
HSI #10511

August 2018

Environmental Resources Management
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The business of sustainability

Atlanta Gas Light Company

Voluntary Remediation Program Compliance Status Report

Former Manufactured Gas Plant Site
Macon, Georgia
HSI #10511

Project No. 0366660

August 2018

Jorge Salcedo, P.G.
Principal in Charge

Adria Reimer, P.G.
Project Manager

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STATEMENT OF FINDINGS

This Voluntary Remediation Program (VRP) Compliance Status Report (CSR) (collectively, VRP CSR) is submitted by Atlanta Gas Light Company (AGLC) and Georgia Power Company (GPC) covering two former manufactured gas plant (MGP) sites located in Macon, Bibb County, Georgia, that are both included as site number 10511 (the Site) on the Georgia Environmental Protection Division (EPD) Hazardous Site Inventory (HSI). The two MGP facilities are referenced in this VRP CSR as the Mulberry Street MGP and the Western Portion MGP.

The VRP CSR was prepared by Environmental Resources Management (ERM) on behalf of AGLC and GPC to satisfy the requirements of the Georgia VRP Act and Consent Orders #EPD-VRP-012 and #EPD-HSR-227. This CSR demonstrates that the Site is in compliance with applicable provisions of the VRP and summarizes the various stages of investigation and corrective action completed at the Site, focusing on those completed since the submittal of the 2004 CSR. Where appropriate, this VRP CSR refers to the March 2000 CSR prepared by Williams Environmental Services, Inc. (Williams, 2000) and the January 2004 CSR prepared by The RETEC Group Inc. (as revised March 2004, RETEC, 2004a) and the certifications of compliance made therein.

In summary, soil, groundwater, sediment, and surface water samples from all phases of investigation were analyzed for Site constituents of interest (COI) and the results of these analyses were used to determine the extent of the constituents associated with former MGP operations. Results of the dozens of investigations, studies, and assessments completed at the Site since 1986 were used to design the corrective actions described in Corrective Action Plan (CAP) documents, Corrective Action Plan Addenda (CAP-A) documents and various work plans prepared since 2000, and the 2014 Voluntary Investigation and Remediation Plan (VIRP) approved by EPD in 2015.

The remediation plan included in the VIRP was designed to mitigate the potential for receptor exposure to residual MGP impacts in soil and groundwater at the Site through the use of engineering and institutional controls. In accordance with the VIRP, unsaturated soils with MGP impacts were excavated and transported off-site, and in situ solidification (ISS) was completed to address MGP impacts in saturated soils and groundwater. Institutional controls in the form of Uniform Environmental Covenants (UECs) restricting land use, groundwater use and/or subsurface disturbance at parcels with impacts from former MGP operations or where ISS engineering controls remain in place will be executed on parcels in accordance with the Georgia Uniform Environmental Covenants Act, OCGA 44-16-1.

Soil

An evaluation of the results of all investigation and corrective actions performed to date on Site soil indicates that soils have been delineated to residential Type 1 risk reduction standards (RRS) or background levels determined in accordance with Hazardous Site Response Act (HSRA) Rules and VRP Act (VRPA) Rules. Soil at all parcels impacted by former MGP operations are either in compliance with default and/or site-specific RRS determined in accordance with HSRA Rules or comply with cleanup standards pursuant to the execution of UECs restricting subsurface disturbance and/or restricting land use of parcels to non-residential

use. Therefore, soil at all properties is in compliance with standards determined in accordance with the VRP. No further investigation or corrective action of soil is warranted.

Groundwater

The extent of MGP-related COI impacts in shallow alluvial groundwater and bedrock groundwater have been delineated to HSRA Type 1 RRS. Shallow alluvial groundwater is in compliance with residential RRS with the exception of an isolated area where the groundwater pathway will be controlled through the execution of UECs restricting the use of groundwater. Bedrock groundwater is in compliance in accordance with the VRP through standards which are protective of potential human and ecological receptors. UECs to prohibit groundwater use will be executed for parcels where residual impacts remain in alluvial and bedrock groundwater for long-term control of potential exposure pathways.

Data collected at the Site over a period of approximately 20 years provides substantial evidence that residual impacts in groundwater does not present a risk to human health and the environment as evidenced by:

- the residual dissolved phase plume in alluvial groundwater is stable as evidenced by:
    - data from nearly twenty years of groundwater monitoring demonstrates that natural attenuation is occurring resulting in a degradation of COI;
    - the effectiveness of corrective actions of source materials including soil excavation and ISS in 2002, 2009 and 2015 has resulted in reduction of COI concentrations and the extent of the plume;
    - detected concentrations of COI in alluvial groundwater are isolated to a small area west of Terminal Avenue within the Macon-Bibb County ROW and on Norfolk Southern active rail line property; and
    - with the exception of the area noted in the previous bullet, concentrations of COI in alluvial groundwater are below residential HSRA RRS rendering the exposure pathway for alluvial groundwater incomplete for the vast majority of the Site.
- the residual impacts in bedrock groundwater are stable as evidenced by:
    - the extent is known, delineated and has not migrated in approximately twenty years of continuous monitoring;
    - as demonstrated by two decades of data, DNAPL and dissolved phase COI are stable and not migrating at steady-state conditions, a condition that is expected to continue based on corrective actions performed to remove source areas, natural attenuation, physical properties of DNAPL, and bedrock hydrogeological studies which have shown no potential for mobility, and
    - further, the bedrock hydrogeological setting (fracture size and type and bedrock competency) provides an impediment to the movement of groundwater and more importantly, impacts in groundwater and therefore does not present a risk to any potential receptors.

Therefore, groundwater at the Macon MGP site is in compliance as determined in accordance with the VRP. No further investigation or corrective action of groundwater is warranted.

Surface Water and Sediment

Surface water and sediments of the Ocmulgee River were previously addressed in the 2004 CSR. Copies of the approval letters for the Sediment Remediation Closure Report and the subsequent Scour Protection Placement Completion Report are included in Appendix A. Monitoring since the 2004 certification of compliance for surface water and sediment has confirmed that the remedy remains effective. Residual impacts in sediments do not pose a risk to potential human or ecological receptors and surface water has not been impacted by former MGP operations. Therefore, no further investigation or corrective action of surface water or sediments related to the Ocmulgee River is warranted.

CERTIFICATION OF COMPLIANCE WITH VRP 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 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.

Based on my review of the findings of this report with respect to the risk reduction standards of the Rules for Hazardous Site Response, Rule 391-3-19-.07, I have determined that soils not previously certified for this site are in compliance with VRP cleanup standards for soil for regulated substances associated with releases from this site. I have also determined that groundwater associated with this site complies with the purposes, provisions, and policies of the Voluntary Remediation Program Act through the use of restrictive covenants to be placed on the property.

Certified by:

Donald F. Carter
Vice President, Compliance & Technical Services
Atlanta Gas Light Company

8/22/2018
Date

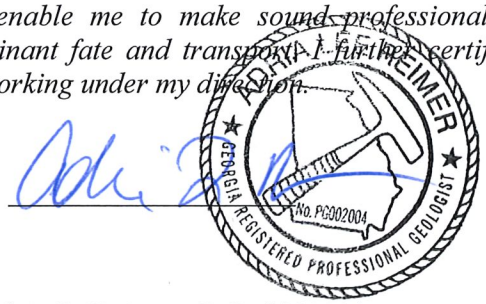
Mark S. Berry
Environmental & Natural Resources Vice President
Georgia Power Company

8/22/2018
Date

PROFESSIONAL CERTIFICATION PAGE

VOLUNTARY REMEDIATION PROGRAM
COMPLIANCE STATUS REPORT
ATLANTA GAS LIGHT COMPANY
FORMER MANUFACTURED GAS PLANT SITE
MACON, GEORGIA
HSI NO. 10511

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



Adria L. Reimer, P.G. #002004

August 24, 2018

1.0 INTRODUCTION

This VRP CSR is submitted by AGLC and GPC for HSI Site number 10511 (the "Site"). For the purposes of this document, the term "Site" includes the portion of AGLC's contiguous property and any non-AGLC owned parcels impacted above applicable cleanup standards by the former MGP operations. The Site location is shown on Figure 1-1 and an aerial photograph of Site and vicinity in shown on Figure 1-2.

1.1 Purpose

This VRP CSR was prepared by Environmental Resources Management (ERM) on behalf of AGLC and GPC to satisfy the requirements of the VRP and Consent Order EPD-VRP-12 for the purpose of delisting the Site from the HSI. Documents previously submitted to and reviewed by EPD confirm the compliance status of sediment and surface water of the Ocmulgee River and soil on portions of the Site with applicable cleanup standards. This VRP CSR demonstrates the compliance status of all portions of the Site with applicable cleanup criteria pursuant to the VRP. This document also contains a summary of investigations and EPD-approved corrective action activities that have been completed at the Site in support of the compliance determination. Data from CAP and CAP-A reports, basis of design work plans (BDWP), Remedial Action Completion Reports (RACR) and Corrective Action Completion Reports (CACR) and CSRs previously submitted to EPD are incorporated by reference in this VRP CSR.

This VRP CSR demonstrates the horizontal and vertical delineation of MGP-related constituents of interest (COI) in soil on properties that were not certified for soil or groundwater compliance in the 2004 CSR (RETEC, 2004a), and documents compliance of those properties with applicable soil standards. This VRP CSR also summarizes data demonstrating the horizontal and vertical delineation of MGP-related COI and reiterates compliance status for soil and sediment on those parcels previously certified in the 2004 CSR. In addition, this VRP CSR demonstrates the delineation and compliance of groundwater at the Site in accordance with the VRP. VRP qualifying properties, adjoining properties and property ownership information is shown on Figure 1-3. Tax parcels and property ownership are also identified in Table 1-1.

1.2 Regulatory Background

Investigation activities associated with the Mulberry Street former MGP operations began in 1986. The portion of the Site where the Mulberry Street former MGP operated is shown on Figure 1-2. The Site was listed on the HSI as site number 10511, on July 24, 1998. Pursuant to HSRA, AGLC and EPD entered into Consent Order EPD-HSR-227 on July 11, 2000 (the "HSRA Consent Order").

To comply with the HSRA Consent Order, the Macon Site Soil and Groundwater CAP ([2001 CAP], ThermoRetec, 2001) proposed corrective actions consisting of soil excavation of unsaturated zone soils and in situ solidification (ISS) of media below the water table. The 2001 CAP focused on the Mulberry Street MGP, as the existence of a second former MGP in the Western Portion (Figure 1-2) was unknown at that time. Therefore, the original CSR submitted for the Site in 2004 (RETEC, 2004a), focused on the compliance status of parcels associated with the Mulberry Street MGP following completion of the excavation and ISS activities in 2002. Parcels with MGP-related soil impacts associated with the Mulberry Street former MGP were

certified in the 2004 CSR as compliant with residential or non-residential RRS for soil or groundwater, as applicable, in compliance with HSRA. Compliance status of soil at these parcels is summarized on Figure 1-4 and in Table 1-2. The EPD-approved RRS for soil at the Macon Site, including EPD-approved background concentrations for COI based on a previous study (Appendix J of the 2000 CSR) are shown in Table 1-3. Compliance details and certification of sediments of the Ocmulgee River (upper and lower outfall) with Type 5 RRS and/or standards established in the EPD-approved CAP for Sediments in the Ocmulgee River (RETEC, 2001) were also included in the 2004 CSR. A copy of the 2004 Certification of Compliance with RRS submitted in the 2004 CSR is included in Appendix A.

Post-remedy compliance groundwater monitoring activities identified continuing groundwater impacts. Approaches to address remaining COI in alluvial groundwater outside the footprint of previous corrective actions in the Mulberry Street MGP area, COI in alluvial groundwater in the Western Portion MGP area, and approaches to address COI in bedrock groundwater were proposed in the Groundwater Corrective Action Plan Addendum (GW CAP-A; RETEC, 2006). The 2006 GW CAP-A provided results of soil and groundwater investigations and pilot test data from activities completed after submittal of the 2004 CSR to support the proposed activities. Corrective actions proposed in the 2006 GW CAP-A to treat alluvial groundwater in the Western Portion MGP area were implemented in 2007. A Focused Feasibility Study for the Alluvium in the Area Downgradient of the ISS Mass (FFS for the ADGISSM; ENSR, 2008) was submitted in 2008 to outline a second phase of ISS activities beyond the 2002 ISS footprint to bring alluvial groundwater in the Mulberry Street MGP area into compliance. The additional ISS work was completed from September 2009 through January 2010, followed by post-remedy compliance groundwater monitoring.

In correspondence dated January 17, 2012, EPD requested submittal of a CAP-A to address remaining COI in alluvial groundwater at the Western Portion former MGP and bedrock groundwater impacts east of the Mulberry Street former MGP. The Western Portion and MW-101 Area Groundwater CAP-A (ERM, 2014a) was submitted to EPD on February 18, 2014 in accordance with the schedule established by EPD. The 2014 CAP-A proposed soil excavation and ISS as the selected corrective actions for the alluvial impacts at the Western Portion MGP.

During a meeting between EPD and AGLC personnel in July 2014, it was agreed that the Macon MGP Site was a candidate for entry into the VRP and subsequently entered into EPD Consent Order EPD-VRP-12 (the “VRP Consent Order”). The VRP Application and VIRP were then submitted to EPD in October 2014 (ERM, 2014b). The Western Portion 2014 CAP-A was included in the VIRP as Appendix C. Qualifying properties in the VRP Application are shown on Figure 1-3. Qualifying properties are parcels and Macon-Bibb County right-of-way (ROW) areas associated with impacts from the Western Portion former MGP operations requiring corrective action as presented in the VIRP, and parcels and ROW areas associated with impacts from the Mulberry Street former MGP operations not previously certified to HSRA RRS in the 2004 CSR. The VRP Application was approved by EPD on May 21, 2015, and the VIRP was approved by EPD on May 26, 2015.

1.3 Document Organization

This CSR is organized into the following sections:

- Section 1.0 gives an introduction.
- Section 2.0 provides Site background and history, including a description of the former MGP operations, a summary of investigations completed prior to submittal of the 2004 CSR, the list of COIs resulting from MGP releases at the Site, and potential sources.
- Section 3.0 presents the Conceptual Site Model (CSM). The CSM includes the general scope of Remedial Investigations (i.e. investigations completed since 2004), Site characteristics, extent of COI, and fate and transport mechanisms.
- Section 4.0 presents a summary of soil investigations completed at the Site to achieve horizontal and vertical delineation MGP impacts.
- Section 5.0 presents a summary of groundwater investigations completed at the Site to achieve horizontal and vertical delineation of MGP impacts.
- Section 6.0 presents soil and groundwater compliance with cleanup goals. Section 6.0 also includes a point of exposure (POE) evaluation to assess the potential for residual groundwater COI concentrations to adversely impact potential receptors. The evaluation demonstrates that residual COI in groundwater do not present a risk at the potential POE, which is located approximately 1,000 ft from the Site. COI concentrations would have to be multiple orders of magnitude higher than concentrations present anywhere at the Site to potentially present a risk.
- Section 7.0 presents a summary of potential exposure pathways and potential sensitive receptors, and overall status of Site compliance with applicable cleanup standards.
- Section 8.0 provides a summary and conclusions regarding the Site.
- Section 9.0 includes the references cited in this document.

2.0 SITE BACKGROUND

2.1 Site Location and Features

The Site is located in Macon, Bibb County, Georgia, with geographic coordinates for the approximate center at 32º 50'03.04" Northern Latitude and 83º 37'17.66" Western Longitude (United States Geological Survey [USGS] Topographic Quadrangle, Macon East, 1985). Releases of COI at the Site resulted from historical operations of two former MGP facilities that date back to the 1800s. The Mulberry Street MGP has been the subject of numerous investigations and corrective actions since the 1980's. The Mulberry Street MGP was situated on land bordered by 6th Street, Walnut Street, 7th Street and Mulberry Street (Figure 1-2 and Figure 2-1).

A second former MGP, the Western Portion former MGP, was located along Terminal Avenue on property currently owned by AGLC and extending onto Macon-Bibb County ROW areas, bounded to the south by 6th Street, to the west by an undeveloped parcel currently owned by Prodigy Holdings, LLC, to the north by Terminal Avenue and to the east by Walnut Street (Figure 1-2 and Figure 2-1). Investigations focused on the Western Portion MGP began in 2005.

In addition to the property surrounding the two former MGPs, the Site includes Central City Park (CCP) owned by Macon-Bibb County, ROW portions of Terminal Avenue, 6th Street, Mulberry Street, Walnut Street, and 7th Street owned by the Macon-Bibb County, and railroad ROW areas owned by Norfolk Southern and CSX Transportation (Table 1-1 and Figure 1-3). The current land use for all developed parcels comprising the Site and adjacent parcels is commercial/industrial (i.e., non-residential).

2.2 General Manufactured Gas Plant History

MGPs commonly operated in the 1800s through the 1950s for producing manufactured gas using coal gas processes, water gas/carbureted gas processes, and/or oil gas processes. The gas was primarily used for lighting and heating. The coal gas process involved the carbonization of coal in retorts (ovens) that produced gas consisting of hydrocarbon elements of the coal. The water gas process involved heating coke or coal in a generator, and subsequently injecting steam into the heated vessel that produced gas consisting of hydrogen and carbon monoxide. The carbureting process further included the injection and cracking of oil, creating a gas with hydrocarbon elements and a higher British thermal unit (BTU) content. The oil gas process involved injecting oil into a heated vessel, producing a gas consisting of the hydrocarbon elements of the oil. Each of these processes resulted in the generation of residual material such as tars, liquors, sludges, coal fragments, and gas purifying wastes. This residual material includes by-product like material (BPLM), commonly described as oil-like material (OLM) or tar-like material (TLM) residue, and non-aqueous phase liquid (NAPL).

2.2.1 Mulberry Street MGP Site

The 2000 CSR (Williams, 2000) included a detailed summary of former operations at the Mulberry Street MGP Site and surrounding properties as determined by review of Sanborn Fire Insurance maps (1884, 1889,1895, 1908, 1920, 1924, 1951, and 1969; Appendix A of the 2000 CSR), historical photographs, and aerial photographs (1920, 1949, and 1950). A 1930 appraisal

of the facility (Appendix B of the 2000 CSR) was also used to compile an operational history of the former MGP.

Historical documentation indicates that all three gas generating processes discussed above were utilized at the Mulberry Street MGP over the course of its operational history, which began in the mid-1850s and continued for nearly 100 years. Structures formerly located on the property included three gas holders, four tar wells, several purifying tanks, and various oil and crude oil tanks (RETEC, 2001). The locations of former MGP structures are shown on Figure 2-2.

All buildings and surficial equipment shown on Figure 2-2 were removed between 1924 and 1951 with the exception of the Purifier House, which was used as a workshop until it and its subsurface structures were removed in 2001. Detailed information on former operations and removal of MGP structures can be found in the 2000 CSR, the 2001 CAP and the 2004 CSR.

2.2.2 Western Portion MGP Site

A detailed description of former operations and associated structures at the Western Portion MGP is unavailable because the history of operations predates typical historical records (e.g., Browns Directory). However, an artist rendering of Macon in 1872 depicts a two-holder gas plant located northwest of 6th Street where Terminal Avenue is currently located. The Western Portion MGP is estimated to have operated from at least 1872 based on the artist rendering (Figure 2-3), to some time before 1884 based on the absence of the MGP plant on the 1884 Sanborn fire insurance map, which is the first available fire insurance map for the area.

Observations made during the excavation of test pits in 2008 in the Western Portion MGP area revealed the presence of brick and wood fibers potentially associated with MGP structures. Results of forensic analyses performed on samples collected during the August 2009 Supplemental Site Characterization (SSCR; ECM, 2009) indicated that the impacts were related to an MGP operation involving pyrolysis of wood resins, which was different from historical operations performed at the Mulberry Street MGP where the carbureted water gas process involved pyrolysis of coal. As documented in the CACR (ERM, 2016a), brick walls and the brick bottom of a gas holder were encountered on the property between Terminal Avenue and 6th Street, west of the intersection of 6th Street and Mulberry Street during excavation activities completed in the Western Portion. The walls and bottom of the holder and surrounding soils were excavated and removed as part of corrective action activities.

2.3 Previous Investigations

Assessment of soil and groundwater at the Mulberry Street MGP began in 1986. Activities included geophysical exploration, test pit excavation and the collection of soil and groundwater samples for laboratory analysis. Additional work completed in 1990-1991 included a review of available historical information (including Sanborn maps), completion of 22 soil borings for visual observations for residual BPLM, soil sample collection for laboratory analysis, installation of 6 groundwater monitoring wells, collection and laboratory analysis of groundwater samples, slug testing of monitoring wells, and a limited survey of potential human and environmental receptors (LAW, 1991a; LAW 1991b; LAW 1992).

Eighty-six soil borings, 19 groundwater monitoring wells, and 5 structure wells were installed between December 1997 and February 1998 as part of an environmental assessment to define the horizontal and vertical extent of COI in soil and groundwater and investigate for the potential presence of NAPL (Williams, 1998). Source material in the form of TML and OLM was observed in subsurface former MGP structures on the Mulberry Street MGP property during the environmental assessment conducted from December 1997 to February 1998 (Williams, 1998). Monitoring wells were installed downgradient of the former structures to monitor for potential NAPL, and the structure wells (Figure 2-2) were installed to allow for the measurement and collection of residual NAPL. No measurable NAPL was observed in the monitoring wells. Measurable amounts of NAPL were present in structure wells SW-1 and SW-2 (less than 1 foot), and TLM was identified in SW-4 (less than 0.5 foot).

Investigations conducted at the Mulberry Street MPG portion of the Site between March 1999 and February 2000 included completion of more than 100 soil borings for visual observations and laboratory analysis; installation of 10 groundwater monitoring wells; and geophysical investigations of bedrock conditions. These investigations were conducted as part of the environmental assessment completed by Williams (RETEC, 2004a). Investigation methods and results were reported in the 2000 CSR. Soil samples were collected for visual observation of BPLM, field screening for the presence of VOCs using closed headspace procedures with a flame ionization detected (FID) or photoionization detector (PID), and for laboratory analysis for COI. From 1999 to 2000 over 100 additional borings were completed for soil sample collection, visual observation, field screening and laboratory analysis during the Compliance Status Investigation completed by Williams (Williams, 2000; RETEC, 2004a). A total of 86 soil borings were completed after submittal of the 2001 Soil and GW CAP, most as part of a source delineation investigation completed between April 16, 2001 and June 1, 2001. Details of activities, including drilling methods, soil sample collection and handling and boring logs were included in the Source Delineation Investigation Report (ThermoRetec, 2001).

Details of these investigations were previously submitted to EPD in various reports (LAW, 1991a; LAW, 1991b; Williams, 2000; RETEC, 2000; RETEC, 2001; RETEC, 2004a; RETEC, 2004c; RETEC, 2004d). These reports include information regarding rationale for boring locations, drilling logs, soil screening and collection methods, borehole abandonment techniques, sample handling and preservation techniques, decontamination procedures and laboratory methods. Therefore, a discussion of the methods and procedures used during these investigations has not been included in this report. These investigation and characterization activities were used to delineate COI in soil and groundwater and to design corrective actions to bring the Site into compliance with applicable standards.

2.4 Site-Specific Constituents of Interest

Releases at MGP sites in general involve tar, oil, slag, coal fragments, ash and associated sludges that are complex mixtures of different SVOCs, lesser amounts of phenolics and VOCs, and some inorganic compounds such as various metals and cyanide. The ash and slag are considered to be essentially inert materials, as the organic constituents are burned off in the process of producing gas. The Gas Research Institute (Management of Manufactured Gas Plant Sites, Volume I, Wastes and Constituents of Interest, October 1987 and later revisions) identifies a list of chemicals present at most MGP sites. The list of MGP-related Site-specific

COI addressed in this VRP CSR were developed based on the Gas Research Institute list plus compounds detected during the Preliminary Assessment (LAW, 1991a) and Site Inspection (LAW, 1992) above the applicable HSRA notification concentrations in soils or above background levels in groundwater. In correspondence dated January 17, 2012, EPD requested that COI listed in the 2014 CAP-A match those presented in the 2004 CSR. Site-specific COI, consisting of VOCs, SVOCs and inorganic compounds, are presented in Table 2-1. Natural attenuation (NA) parameters (Table 2-1) have also been collected at the Site to assess groundwater conditions and evaluate degradation of COI.

2.5 Source of Release

2.5.1 Mulberry Street MGP Site

Former MGP structures and associated subsurface remnants were identified and documented in the 1991 Preliminary Assessment (PA; LAW, 1991a), the Site Inspection (SI; LAW, 1991b), and Environmental Assessment Report (EA; Williams, 1998) and included Gas Holders 1, 2, and 3; Tar Wells 1, 2, and 3; the Tar and Liquor Well (Tar Well No. 4); and the Purifying Room/Exhaust and Motor Room (Figure 2-2).

Other MGP structures, equipment, or storage areas were identified from the 1930 appraisal and Sanborn maps, including oil tanks, a coal trestle, a carbonizing plant, a fuel/water gas room, a coke shaker and conveyor, crude oil tanks, a meter house, additional tar wells and tar kettles, an oxide-drying platform, and purifiers.

Six surface soil samples were collected in October 1991 (LAW, 1991a) near former Gas Holders 1 and 2 and former Tar Wells 2 and 3. Compounds associated with MGP operations, including volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals were detected at all 6 locations. All of the potential sources listed above, including those investigated in 1991, could have contributed to the release of regulated substances, but the extent of each source's contribution is uncertain. Extensive subsurface investigations completed at the Site have provided sufficient data to define the extent of MGP-related impacts to soil and groundwater from each of these potential sources.

2.5.2 Western Portion MGP Site

Information on the type and location of plant structures at the Western Portion MGP is limited, as the only available depiction is the 1872 artist rendering showing 2 gas holders, where Terminal Avenue is currently located (Figure 2-3). Operations at the plant appear to have ceased prior to 1884 based on the absence of the former gas holders from the first Sanborn Map published in that year. Investigation of the area northwest of 6th Street began in 2005. In 2007, soil and groundwater impacts requiring additional investigation were identified during the demolition of structures on the property northwest of the intersection of 6th Street and Mulberry Street. Data collected during investigation and delineation activities completed between 2007 and 2013 indicated impacts to soil and groundwater from the Western Portion MGP on portions of properties presently owned by AGLC, Norfolk Southern, Prodigy Holdings LLC, and the Macon-Bibb County ROW areas (Figure 1-3).

Although identification of specific potential sources at the Western Portion MGP is not possible due to sparsity of historical information, extensive subsurface investigations have provided

sufficient data to define the extent of MGP-related impacts to soil and groundwater from former operations.

3.0 CONCEPTUAL SITE MODEL

This section presents a brief description of the remedial investigations and delineation of Site COI completed since submittal of the 2004 CSR, and presents the CSM, including the Site geologic and hydrogeologic setting, and aquifer characteristics. This section also presents a summary of the geologic conditions that govern the distribution of dense NAPL (DNAPL) in bedrock fractures and preclude DNAPL migration beyond the isolated area where currently present.

As shown on Figure 1-4 and discussed in Section 1.2, soils at numerous parcels and in ROW areas were certified in the 2004 CSR and those certifications remain applicable. As such, the data presented in this section and in Section 4.0 are specific to areas not certified in 2004, and detail the activities completed to investigate and bring these areas into compliance.

Information pertaining to the corrective actions completed between 2000 and submittal of the 2004 CSR (Figure 3-1) and the 2004 certification of parcels as shown on Figure 1-4 and provided in Appendix A can be found in the 2004 CSR. Information pertaining to CSM development can be found in the 2004 CSR, the 2008 Focused Feasibility Study (FFS) for Alluvium in the Area Downgradient of the ISS Mass, the VIRP and VRP Semiannual Progress Reports.

3.1 Remedial Investigations Since 2004

This section briefly describes both delineation sampling and post-corrective action confirmation sampling performed at the Site to the extent needed to certify MGP COI-impacted parcels that were not certified in the 2004 CSR. The discussion is divided into the MW-101 area, the Western Portion former MGP and the ADGISSM based on differences in the dates of discovery, investigation and corrective action (Figure 3-1). Field methods and quality assurance/quality control (QA/QC) procedures were performed in accordance with U.S. EPA's Standard Operating Procedures during the investigations, as documented in reports previously submitted to EPD, including the 2006 GW CAP-A, 2008 RACR for Bedrock Groundwater, the 2008 FFS for ADGISSM, the 2014 CAP-A and the 2014 VIRP.

3.1.1 MW-101 Area

Groundwater monitoring completed from 2002 through 2004 in the Mulberry Street MGP area indicated the need for additional investigation and corrective action near MW-101, cross-gradient of the 2002 ISS (Figure 2-1). In July 2004, soil borings were completed in the MW-101 area for visual inspection for residual MGP-impacts, and to install injection and observation wells for pilot testing of an *in-situ* remedy. Testing to evaluate the effectiveness of an oxygen diffusion technology (iSOC®) to promote biodegradation of COI in the alluvial aquifer at MW-101 was initiated in July 2004 (Figure 3-1). Testing continued in the MW-101 area until February 2005, when concentrations of dissolved COI were reduced to below laboratory detection limits.

Minimal TLM was observed in 2 additional borings completed in the MW-101 area in November 2005. To aggressively treat the minimal TLM in the saturated zone, the 2006 GW CAP-A recommended ISCO. Implementation of the recommendations in the 2006 GW CAP-A were suspended when the Western Portion MGP was discovered, and groundwater monitoring in the

MW-101 was suspended until 2009. The 2011 Focused Feasibility Study – Western Portion and MW-101 Area (ECM, 2011) presented ISS as the recommended remedy for the MW-101 area; however, as detailed in the 2014 VIRP (Appendix C), groundwater monitoring results since 2013 showed natural attenuation of dissolved phase COI to be occurring in the area, as evidenced by decreasing concentrations at MW-101 and a lack of COI detections at well locations less than 100 feet downgradient of MW-101. As the MW-101 area is within the Type 5 property boundary already certified in the 2004 CSR and groundwater use at the property is already restricted through the execution of UECs, the 2014 VIRP recommended continued monitoring of groundwater at MW-101 to confirm lack of COI migration to downgradient wells and continued attenuation of COI at MW-101.

3.1.2 Western Portion MGP

This section briefly describes soil investigation activities performed since February 2005 in the Western Portion MGP area (Figure 1-2 and Figure 3-1) to the extent needed to provide evidence of the horizontal and vertical delineation of COI in unsaturated soil at parcels impacted by Western Portion former MGP operations.

Groundwater monitoring conducted following completion of the 2002 ISS indicated the need for additional investigation and corrective action in the area upgradient of the ISS, near MW-09 at the intersection of 6th Street and Mulberry Street (Figure 2-1). The Pilot Test Work Plan (PTWP; RETEC, 2004e) outlined plans to evaluate the effectiveness of remediation using either iSOC® or ISCO in the MW-09 area. Pilot testing of iSOC® was conducted in 2005 (Figure 3-1). Results indicated that residual impacts in the saturated zone near MW-09 were not amenable to aerobic bioremediation (RETEC, 2006). Soil investigations completed from November 2005 through March 2006 along Mulberry Street, 6th Street and on parcels west of 6th Street indicated MGP-impacts (primarily TLM) were more extensive than previously thought, and ultimately led to the identification of the Western Portion MGP.

Subsequently, the GW CAP-A recommended additional investigation near MW-09 to further characterize the extent of impacts and evaluate remedial options. The recommended investigation began in August 2006. ISCO injections were implemented in 2007 in accordance with recommendations in the GW CAP-A (Figure 3-1) but were suspended in December 2007 due to the need for additional delineation of residual BPLM in the unsaturated and saturated zones. Additional investigations were completed in 2008, which included test pit excavations to further identify impacts.

In August 2009, 41 soil borings were completed in the Western Portion MGP area. Forensic fingerprint sample analyses indicated the impacts in the area were MGP-related but were from operations different from those performed at the Mulberry Street MGP (ECM, 2011). An additional 20 soil borings and 11 groundwater monitoring wells were completed in 2010 (ECM, 2011) to provide data for a remedial alternatives evaluation. In 2013, over 100 soil borings were advanced to complete the delineation of COI in surface and subsurface soil and evaluate compliance of unsaturated soil with RRS (ERM, 2014a).

In summary, the conclusion from these investigations was that additional corrective action beyond that already completed in the Western Portion MGP area, as documented in the Western Portion and MW-101 Area Groundwater CAP-A (ERM, 2014a), was required. The

proposed remedy included excavation of unsaturated soils and ISS of saturated soils to address MGP source materials below the water table. A summary of the corrective action completed in the Western Portion was included in Appendix A of the 2nd Semiannual VRP Progress Report (ERM, 2016b). Compliance of soil and groundwater in this area is summarized in Section 6.0 and certifications are included in this report.

3.1.3 Area Downgradient of the ISS Mass

The main objective of investigation in the ADGISSM was to identify impacts in the saturated alluvium identified during the implementation of the bedrock remedy in this area as documented in the Remedial Action Completion Report for Bedrock Groundwater (AECOM, 2008). The investigation data was used to design an appropriate remedy for soil and groundwater and assess the area for any unsaturated zone impacts not addressed during soil excavation in the area in 2002.

Between November 2006 and May 2007, a total of 25 soil borings were completed in the ADGISSM. Details of the investigations, including boring locations, borehole drilling techniques, unsaturated zone soil collection methods, field screening of soil with a PID for the presence of organic vapors, and visual observations of soil samples were submitted to EPD in the FFS for the Alluvium in the ADGISSM (ENSR, 2008) and the Remedial Action Completion Report for the Area Downgradient of the ISS Mass (RACR; AECOM, 2010). In summary, visual observations and field screening using a PID did not indicate MGP-impacts in the unsaturated zone; therefore, no soil samples were collected from the vadose zone for laboratory analysis.

In 2009, soil excavation and ISS activities were completed in the ADGISSM to address residual MGP-related TLM in saturated soil and associated groundwater impacts (AECOM, 2010). Soil used to backfill the footprint of the 2009 ISS mass included soil previously excavated within the ADGISSM to allow for ISS, supplemented with imported backfill. Backfill soil was tested prior to use at the Site. Laboratory analyses showed reported concentrations for all analytes tested in the backfill were below Type 2 RRS approved by EPD for the Site.

The ADGISSM is located within the boundaries of a parcel currently owned by the Macon-Bibb County Urban Development Authority, which was certified in the 2004 CSR to HSRA Type 5 RRS. No vadose zone soil impacts were observed during the 2006-2007 investigations, nor during the implementation of corrective actions to address saturated zone impacts in 2009, and backfill materials are in compliance with Type 2 RRS. As such, soils in the ADGISSM remain in compliance with the RRS pursuant to HSRA.

3.1.4 Macon Iron & Paper Stock Company

Twelve soil borings were completed at the former Macon Iron and Paper Stock Company (MI&P) as due diligence samples in March 2013 using direct push technology (DPT; Figure 3-2). A surface soil sample (0-2 feet below ground surface; ft bgs) and a subsurface sample were collected at each location for laboratory analysis. Sample handling, field screening, logging and laboratory analytical methods were consistent with those discussed above. Analytical results for MGP-related VOCs, SVOCs and metals are summarized in Table 3-1. Soil boring logs and laboratory reports are included in Appendix B.

Sample results indicate that detected concentrations of VOCs, SVOCs and metals were all below even Type 1 RRS as calculated pursuant to HSRA except for benzene at 2 locations (DDSB-8 and DDSB-10; Table 3-1). Although benzene was not detected at DDSB-9, the laboratory detection limit for benzene for this sample (2.8 mg/kg) was above the HSRA Type 1 RRS (0.50 mg/kg). Likewise, although chloromethane was not detected at DDSB-8, the laboratory detection limit for chloromethane for this sample (0.095 mg/kg) was above the HSRA Type 1 RRS (0.04 mg/kg).

3.2 Physical Setting

The Site topography ranges between elevations 285 to 330 ft above mean sea level (ft AMSL; United States Geological Survey [USGS] Topographic Map Macon West and Macon East, Georgia; Figure 1-1). Land use for parcels that comprise the Site and adjoining properties is industrial/ commercial. An active Norfolk Southern rail line is located northwest of the Site, across Terminal Avenue. Properties owned by Norfolk Southern and CSX Transportation, which include active rail lines, are located north and south of the intersection of Walnut Street and 7th Street to the east of the former Mulberry Street MGP. CCP is located east of these rail lines. The Ocmulgee River flows northwest to southeast in this area of Macon and is approximately 1,000 ft north-northeast of the Site at the closest point.

3.2.1 Regional Geology and Hydrogeology

The Site is located in the Coastal Plain physiographic province of Georgia, which in Bibb County is divided into three distinct regions that include the Sand Hills, Red Hills and Tifton Upland (Clark and Zisa, 1976). The Site lies within the Sand Hills region which is characterized by light-colored sands and clays of Late Cretaceous age that slope gently towards the southeast (Husted et. al. 1978; Legrand 1962; RETEC 2006). The Site is underlain by up to 40 ft of Pleistocene- to recent-age alluvial deposits described as unsorted sand, gravel, and clay (RETEC, 2006; ENSR, 2008).

Below the alluvial deposits, the Late Eocene upper sand member of the Barnwell red sands grade downward into interbedded yellow sand and clay (Husted et. al., 1978). The Cretaceous-age Tuscaloosa Formation lies unconformably below the Barnwell Formation and consists of fine- to coarse-grained, subangular, micaceous, arkosic sands that are interbedded with gray to green, locally iron-stained kaolinitic, micaceous sandy clays (Legrand, 1956; Husted et. al. 1978). The base of the Tuscaloosa in this area dips slightly to the southeast and lies unconformably above Pre-Cambrian and older Paleozoic crystalline bedrock that includes mica schist, felsic gneiss and schist, and granite and granite gneiss (Couch et. al., 1996).

Sand and gravel deposits within the alluvium are the most permeable geologic deposits in the vicinity of the Site. Recharge to the Tuscaloosa formation occurs in outcrop areas west of the Ocmulgee River, and groundwater in the alluvium and Tuscaloosa is expected to discharge into the Ocmulgee River (ENSR, 2008). The Paleozoic-aged and older igneous and metamorphic rocks, and associated saprolite generally exhibit low transmissivities.

3.2.2 Site Geology

Numerous investigations completed at the Site identified geologic units consisting of fill material; unconsolidated alluvial deposits; sandy clays of the Tuscaloosa Formation; a clayey to silty

saprolite; and a granitic gneiss bedrock (Williams, 2000; RETEC, 2006). Throughout most of the Site, the fill material is comprised of a combination of sand, silt, clay, and gravel and is encountered from the ground surface to depths ranging from approximately 0.2 to 15 ft below ground surface (ft bgs).

The alluvial deposits underlying the fill material generally grade downward from sandy clays and clayey sands, to silty sands, further to sands and gravelly sands (RETEC, 2006). The alluvial sands and gravels have been subdivided into upper, middle, and lower sands and gravels (ENSR, 2008).

The alluvial deposits overlie the Cretaceous-age Tuscaloosa Formation (where present) and the older, underlying saprolite. The Tuscaloosa Formation is generally found west and north of Sixth Street and tapers off in the western/northwestern portion of the Mulberry Street MGP Site, consistent with the orientation of the overlying beds. The Tuscaloosa is encountered from 5 to 23 ft bgs and thickness ranges from approximately 3.5 to 11 ft. (ENSR, 2008).

The base of the Tuscaloosa formation lies unconformably above a saprolite unit. Saprolite, a product of rock decomposition that is formed through in situ chemical weathering, is characteristic of the region (Pavich, 1996). It is characterized by the presence of relict structures present in the original unweathered rock and exhibits the original rock makeup. The saprolite encountered at the Site is generally a clayey silt characterized by relict foliation and structures associated with the parent igneous and metamorphic rock. The thickness of the saprolite at the Site ranges from approximately 6.5 to 30 ft (RETEC, 2006; ENSR, 2008).

The saprolite at the Site is not considered to be a porous media due to the documented limited number of fractures observed during subsurface investigations. The decomposition of granitic gneiss, abundant in both muscovite and biotite mica, has formed sheet silicates that weather readily into clays. The resulting saprolite has a low flow capacity with low permeability and little to no secondary porosity (RETEC, 2006; ENSR, 2008; ECM, 2011). The saprolite contact, as determined from review of historic boring logs and cross-sections, generally dips downward from southwest to northeast (Figure 3-3). The thickness of saprolite across the Site ranges from 30 ft in the western portion of the Site to approximately 6.5 ft west of the intersection of Walnut and 7th Streets. Saprolite thickness in the vicinity of this intersection is observed to generally be consistent at approximately 6.5 ft (RETEC, 2006; ECM, 2011; ERM, 2011).

The underlying bedrock consists of a granitic gneiss containing both open and fused fractures that diminish with depth (RETEC, 2006). A downhole geophysical study was performed by COLOG in bedrock groundwater monitoring wells MW-12DD, MW-22D, MW-23D and MW-24D in 1999 (Appendix E of the 2000 CSR). In June 2005, COLOG performed geophysical logging in ten well boreholes at the Site (RETEC, 2006, Appendix D). The results of the geophysical logging demonstrated that the fractures vary in aperture and dip angles range from 10 to 85 degrees from horizontal. Bedrock fractures demonstrate a primary fracture orientation to the east and southeast and flow lines are generally parallel to fracture orientations (Figure 3-3). Topographic changes in the top of bedrock at the Site generally mimic top of saprolite topographic changes in the vicinity of the intersection of Walnut and 7th Streets where saprolite thickness is approximately uniform, so that top of saprolite contours noted on Figure 3-3 in this area denote approximate elevation variations in the top of bedrock. As such, top of saprolite “low” and “high” areas indicate corresponding top of bedrock lows and highs.

Detailed information on the Site geology was obtained from several phases of CSR and supplemental investigations. These data were used to generate conceptual geologic cross section views of the Site's subsurface stratigraphy. Cross sections that depict the geology of the Site before soil excavation and ISS in the ADGISSM and Western Portion area were provided in previous CSRs (RETEC, 2004a). These cross sections have been updated to reflect the change in geology due to soil removal activities and replacement of impacted soil with clean, fill material. Geologic cross-sections (A-A', B-B', C-C', D-D') illustrating the current Site geology and hydrogeological conditions are presented in Figures 3-4 through 3-6.

Groundwater is present in portions of the fill material, the alluvium, the Tuscaloosa Formation, saprolite and bedrock. Groundwater is typically first encountered at a depth ranging from 6-20 ft bgs. During Site restoration activities following the 2002, 2009 and 2015 soil excavation and ISS actions, excavated areas of the Site were backfilled with either imported backfill material consisting primarily of clays, silty clays and sandy clays, and/or excavated soil tested for compliance with reuse criteria. The material placed in the excavated areas was compacted to at least 95 percent compaction, resulting in a low permeability.

3.2.3 Site Hydrogeology

3.2.3.1 Alluvium Hydrogeology

The alluvium groundwater monitoring network at the Site consists of 29 wells completed in the shallow alluvium and 3 wells, identified as intermediate wells, completed deeper in the alluvium (Table 3-2). The most recent groundwater level gauging event at the Site was completed on February 19, 2018 (Table 3-3). As shown on Figure 3-7, alluvial groundwater flow direction observed during the February 2018 event is in an easterly direction, towards the Ocmulgee River. Hydraulic conductivity in the alluvium at the Site is estimated to be 1.68 x 10-3 centimeters per second (cm/sec; RETEC, 2006), or 4.76 ft/day. Since 2006, the hydraulic conductivity and effective porosity reported in the 2006 CAP-A have been used to estimate groundwater seepage velocity. Seepage velocity in the alluvial aquifer for the February 19, 2018 event was estimated from the product of hydraulic conductivity (K) and horizontal hydraulic gradient (i), divided by effective porosity (ne). Based on these parameters, the February 2018 alluvial seepage velocity is approximately 1.1 ft/day in the western portion of the Site and approximately 0.26 ft/day in the eastern portion (see Table 3-4 for seepage velocity calculations and Appendix C for gradient calculations). The calculated approximate seepage velocities are consistent with those previously-reported to EPD in semiannual groundwater monitoring reports.

3.2.3.2 Bedrock Hydrogeology

The bedrock groundwater monitoring network at the Site consists of 34 wells, of which 4 wells are completed at depths of greater than 70 ft bgs to provide vertical delineation data and are identified as deep bedrock wells (Table 3-5). Groundwater levels at bedrock groundwater monitoring well locations were most recently gauged on February 19, 2018 (Table 3-6). Figure 3-3 shows the hydraulic potential in shallow bedrock wells for February 19, 2018. DNAPL was detected at MW-111D and MW-309D in February 2018, consistent with previous events. Observed DNAPL thickness where present is noted in Table 3-5.

Groundwater occurrence and movement within fractured bedrock aquifers is controlled by a combination of hydraulic gradients, fracture orientations and fracture connectivity. As shown on Figure 3-8, the hydraulic potential in bedrock decreases across the Site from approximately west to east-southeast. The observed drop in hydraulic potential combined with evidence of the orientation of bedrock fractures (Figure 3-2) indicates that movement of groundwater in the bedrock aquifer is primarily to the east/southeast towards the Ocmulgee River. Since fractured bedrock aquifers are inherently anisotropic and heterogeneous, calculation of seepage velocity may not be representative using bulk porosity estimates. However, a range of porosity estimates may provide bounds on the estimated groundwater seepage velocity in the bedrock aquifer. Multiple seepage velocities are presented in Table 3-4 using porosity estimates from literature and by solving three-point problems for different areas of the Site using the February 2018 groundwater elevation measurements. The calculated range of seepage velocities in the bedrock aquifer in February 2018 at the western portion of the Site was between 0.08 and 6.17 ft/day, and between 0.05 and 3.63 ft/day in the eastern portion of the Site (see Appendix C for gradient calculations). The calculated approximate seepage velocities are consistent with those previously-reported to EPD in semiannual groundwater monitoring reports.

Measured hydraulic conductivity in bedrock aquifers varies from well to well based on the fracture network the individual borehole intersects. To get the most reasonable estimate of groundwater occurrence and movement in the aquifer, the best approach is to assess numerous wells, and to use more than one evaluation method. In an effort to more fully assess groundwater movement in the bedrock aquifer beyond the groundwater seepage velocities estimated above, the following paragraphs summarizes investigations at the Site to refine understanding of the bedrock aquifer fracture system and groundwater occurrence in bedrock fractures.

Extensive geophysical and aquifer testing has been performed at the Site to refine understanding of the fracture network and hydrogeological characteristics of the bedrock aquifer in the eastern area of the Site where MGP-related impacts are observed in bedrock groundwater. In summary, results of the testing demonstrate that bedrock beneath the Macon MGP Site contains a relatively small number of low-yielding fractures. Ambient groundwater flow rates in fractures under equilibrium conditions ranges from less than 0.0001 gallons per minute (gpm) to 0.0024 gpm. Therefore, unless water is pumped from the bedrock zone, the rate of flow in this zone is very low to almost no flow (RETEC, 2006). Details of bedrock groundwater level monitoring activities, aquifer characterization investigations and conclusions regarding potential for movement of groundwater in the bedrock aquifer are provided below.

Sustainable Yield Pumping Test

A sustainable yield pumping test performed in bedrock well MW-12D in October 2003 (Appendix M, RETEC, 2006) showed that steady-state equilibrium was achieved with a pump discharge rate of 0.5 gpm. Based on interpretation of the pumping test data, a hydraulic conductivity of 3.4E-06 cm/sec (9.6E-03 ft/day) was calculated for the pumping well (RETEC, 2006). The pumping test results demonstrate that the bedrock aquifer provides limited groundwater yield in the immediate vicinity of the Site.

Geophysical Logging

Data from downhole geophysical studies performed in four bedrock wells in November 1999 combined with core samples recovered during drilling operations were used to identify the strike and dip of a set of potentially water-producing fractures east of the Site. The results of this investigation were presented in Appendix E-5 of the 2000 CSR. Additional bedrock geophysical studies were completed in 2005 (RETEC, 2006 CAP-A) and included extensive downhole geophysical testing of ten bedrock wells, providing additional information on the strike and dip of potentially water-producing fractures.

Geophysical logging was performed at well locations in 1999 (Williams, 2000) and 2005 (RETEC, 2006). In regard to the pattern of water-bearing fractures at the Site, the 2005 results provided more substantial information than the 1999; therefore, that event is the focus of this section. Ten boreholes were assessed to determine fracture orientation and aperture. In addition, fracture density and ambient flow conditions were evaluated to determine location and capacity of water-bearing fractures. The results showed that the dominant water-bearing fracture or fractures at 90% of the well locations was, on average, within the top 28% of the open corehole interval, and that fracture aperture and density decreases with depth, signifying that the majority of groundwater movement in the bedrock is in the shallow portion of the aquifer.

Ambient flow testing in the coreholes (e.g., assessment of flow through fractures under static, non-pumping, steady-state conditions) identified only ambient horizontal flow as opposed to vertical flow. This observation indicates that there is little to no vertical hydraulic gradient in the wells, likely because there are fewer fractures at depth so coreholes were less likely to intersect a water-bearing fracture below the upper, shallow bedrock zone. Flow testing was also completed under pumping conditions to assess the impact of groundwater withdrawal on the capacity of water-bearing fractures.

The flow capacity of water-bearing fractures was evaluated and reported as an interval or fracture-specific hydraulic conductivity. A table summarizing the results of the study was included in the 2006 CAP-A, and is included in this VRP CSR as Table 3-7. As shown in the table, the fracture with the highest flow capacity under static conditions was observed at MW-113D near the top of the corehole at approximately 35 ft bgs (0.022 gpm). Wells were also tested under pumping conditions. The fracture with the highest flow capacity under pumping conditions (13.9 gpm) was IW-3, a well used during the 2004 ISCO injections (see Section 3.0) which was abandoned during the 2009 soil excavation and ISS activities as it was located within the footprint of the 2009 ISS mass.

Under ambient conditions, the average flow was 1.35 gpm, in contrast to under pumping conditions where the average flow rate for all wells was 123 gpm. The median rates under ambient and pumping conditions were 0.0009 gpm and 0.31 gpm, respectively.

The following conclusions are drawn from the study:

- In ten wells tested, only thirty-two water-bearing fractures or fracture zones were identified.
- The average length of the intervals where flow was detected in tested wells ranged from approximately 0.1 ft to 0.3 ft, with the exception of MW-110 and MW-111 where fracture zones with measured low were estimated to range from 0.1 to 0.6 ft.

- Groundwater movement in the bedrock aquifer occurs primarily in fractures in the upper portion of the bedrock zone, near the saprolite/bedrock interface.
- Fracture density and water-bearing capacity decreases with depth.
- The combined length of all intervals where flow was observed was approximately 5.6 ft, representing less than 1.5% of the total length of bedrock aquifer tested which was approximately 470 ft.
- Under ambient, non-pumping conditions, groundwater movement in the bedrock aquifer is little to none with a maximum flow rate of 0.002 gpm.

Pneumatic Slug Testing

Testing was completed in MW-110D, MW-111D, MW-200D, MW-207D and ISCO injection well IW-1 between November 2006 and February 2007. Hydraulic conductivity values from pneumatic slug testing ranged from 4.6E-04 to 9.2E-04 cm/sec (1.3 to 2.6 ft/day), with the exception of MW-110D which was 7.1E-03 cm/sec (20 ft/day). The higher value is likely due to a larger-aperture water-bearing fracture intersected by the well (ENSR, 2008).

In summary, there is little to no movement of groundwater in the bedrock aquifer under static conditions. In regard to fate and transport of dissolved phase COI, bedrock characterization activities at the Site show low potential for migration of COI in bedrock groundwater. This conclusion is supported by laboratory analytical data of groundwater samples collected at the Site for more than 20 years that shows that dissolved phase COI have not migrated more than 400 ft from the intersection of Walnut Street and 7th Street (see Section 6.4.1).

3.2.4 Distribution of DNAPL in Bedrock

DNAPL is present at the Site at bedrock monitoring wells MW-111D and MW-309D (Table 3-6). DNAPL was first observed at MW-111D in 2006 during groundwater extraction activities at the well completed as part of ISCO corrective actions. DNAPL has been detected at MW-309D since installation in 2013. Although DNAPL was not observed during installation of the well, it entered the well during well development as groundwater was pumped from the well. As noted in the VIRP and further discussed in subsequent VRP Progress Reports, DNAPL was observed during the installation of MW-305D, located east of the 2009 ISS along the eastern side of 7th Street, in 2013. The DNAPL was encountered at the top of bedrock, at the saprolite/bedrock interface at a depth of approximately 31 ft bgs at the MW-305D location. DNAPL has never been detected in MW-305D.

In 2007, in response to the detection of DNAPL at former MW-110D and at MW-111D, NAPL adsorbent (FLUTe) liners were inserted into select bedrock wells in order to investigate the presence of DNAPL and the location of NAPL-bearing fractures in the test wells if present. FLUTe work at well MW-200D (within the footprint of the 2009 ISS, subsequently abandoned prior to the ISS and replaced by existing MW-200DR) provided additional insight into the depth of the major BPLM-bearing fractures. At this well location, three fractures between approximately 27 to 33 ft bgs contained evidence of mobile DNAPL. At other wells where FLUTes were installed, the only evidence of DNAPL was noted as a few blebs in the liners at MW-201D at 29 ft. bgs and MW-110D at 33.7 ft. bgs.

As presented in the VRP 3rd Semiannual Progress Report (ERM, 2016c), DNAPL samples were collected from MW-111D and MW-309D for characterization, and the reported viscosities at 10°C were 347 and 350 millipascal-second (mPa-s), respectively. The viscosity of water at 10°C is approximately 1.3 mPa-s, significantly lower than the viscosity of the Macon MGP site DNAPL. Consequently, the high viscosity of the DNAPL limits mobility in the subsurface, so that distribution is not only controlled by the presence, orientation and connectivity of fractures and joints, but also by the aperture of the features (because migration will stop once the viscous forces [entrance pressures] are too high for the substance to enter an opening). Once entrance pressures are exceeded, the DNAPL will become immobile.

The occurrence of DNAPL in the shallow bedrock zone at MW-305D, MW-200DR and MW-111D and lack of DNAPL observations in deeper fractures at MW-305D demonstrates that the driving forces of DNAPL migration are not sufficient for DNAPL to migrate vertically to deeper fractures in the bedrock. As originally presented to EPD in Figure 3-6 of the 2004 CSR and included herein as Figure 3-2, top of saprolite “low” areas, which mimic top of bedrock “low” areas, exist northeast of former Mulberry Street MGP property. Over the last 150 years (i.e., since operation of the MGPs and source release of DNAPL), data indicates that DNAPL has migrated along the saprolite/bedrock interface to these lower elevation saprolite and corresponding bedrock surface area lows. Groundwater monitoring well data shows that DNAPL has migrated a distance of approximately 75 ft from the former MGP property and pooled in the areas of saprolite and bedrock surface lows in the vicinity of MW-111D and MW-305D. The bedrock groundwater well network is robust in this area; the lack of DNAPL observation at nearby wells supports the conclusion that the horizontal migration of DNAPL is limited as it pools in areas of saprolite and bedrock surface lows. In addition, the absence of visual indicators of DNAPL at MW-309D during installation coupled with DNAPL entry to the well while pumping indicates that the DNAPL was immobile under ambient, non-pumping conditions and the extraction of groundwater from the well induced movement of the DNAPL to the well.

Vacuum enhanced fluid recovery (VEFR) events were completed at the Site over several years beginning in 2011 in an effort to evaluate the feasibility of removal of dense NAPL (DNAPL) from MW-111D and MW-302D. VEFR events were later discontinued based on evidence that they were causing destabilization and possible accelerated migration of dissolved phase COI. In a comment letter dated February 21, 2017, EPD concurred that VEFR events have not been effective in remediating DNAPL and that VEFR events could accelerate migration or destabilization of the dissolved phase plume.

The observed limited extent of DNAPL at the Site is consistent with the immobile nature of the DNAPL and the geologic setting. The extent of DNAPL in the bedrock setting at the Site is considered of limited consequence, based on the following Site-specific observations:

- The presence of DNAPL has been delineated at the Site;
- The DNAPL areal extent is limited to the bedrock surface low area near the intersection of Walnut and 7th Streets, and is present only within road ROWs adjacent to the Site;
- DNAPL has been removed, decontaminated, or immobilized to the extent practicable;
- The site geology (for example bedrock micro-fractures and bedrock topography) creates an impediment to migration of DNAPL;

- The maximum distance of DNAPL migration beyond the former MGP property boundary is approximately 75 ft, over approximately 150 years.

4.0 SOIL INVESTIGATION

The soil investigations summarized in Sections 2 and 3 provided the data required to delineate the vertical and horizontal extent of COI in soil at the Site. The EPD-approved RRS for the Macon Site, including EPD-approved background concentrations for COI based on a previous study (Appendix J of the 2000 CSR) are shown in Table 1-3. Soil delineation standards under the VRP are the HSRA Type 1 RRS. As a result of the numerous soil investigations completed at the Site, soil has been delineated to VRP standards protective of human health and the environment. Numerous previously-submitted reports provide extensive details of the various investigations completed to delineate COI in soil at the Site. The following sections provide the information required to demonstrate the achievement of delineation of soil to VRP standards. The following sections summarize the results of all soil delineation activities.

4.1 Horizontal and Vertical Extent of MGP Impacts and COI in Soil

4.1.1 Mulberry Street MGP Delineation of Residual MGP Impacts

The extent of visual observations of BPLM in soil and vertical and horizontal delineation of COI to EPD-approved background concentrations in the Mulberry Street former MGP portion of the Site were completed in 2002 and reported in the 2004 CSR. As noted in the 2004 CSR, AGLC previously obtained EPD's concurrence that concentrations of COI in the area (Figure 4-2 and 4-3 of the 2004 CSR) as "Former Iron & Paper Stock Company, Oil Company and Junkyard" are not related to the former MGP operations, and this area is not considered to be part of the Site.

As documented in the 2004 CSR, delineation of Site COI to background concentrations for parcels associated with the Mulberry Street MGP has been completed. Accordingly, VRP delineation requirements have already been met in the eastern portion of the Macon MGP Site.

4.1.2 Western Portion MGP Delineation of Residual MGP Impacts

Soil investigation activities described in detail in the 2014 VIRP and the 2016 CACR were performed to define the extent of site-specific COI exceeding EPD-approved background concentrations and applicable non-residential RRS at the Western Portion MGP section of the Site. Vertical and horizontal delineation of residual MGP impacts in unsaturated and saturated soil was demonstrated in the 2014 Western Portion CAP-A, which was included as Appendix C of the VIRP submitted in 2014. In summary, locations of observations of residual impacts are shown on Figure 4-1 and observation data are tabulated in Table 4-1. The limits of the 2015-2016 Western Portion ISS were determined in part on the extent of residual MGP impacts observed in unsaturated and saturated zones to ensure that corrective actions encompassed the entirety of the area of residual MGP-related impacts. Confirmation soil samples were collected during implementation of the soil excavation and ISS corrective measures outlined in the VIRP and completed in 2015-2016 to confirm compliance of soils remaining on VRP qualifying parcels with applicable RRS. Methods and results used to determine compliance with RRS have been provided in the CACR (ERM, 2016a).

4.1.2.1 Western Portion MGP Delineation of Volatile Organic Compounds

VOCs in soils in the Western Portion were delineated in 2013 to HSRA Type 1 RRS in accordance with VRP requirements. The locations of delineation borings (highlighted yellow) are shown on Figure 4-2 (surface soil to a depth of 2 ft bgs) and Figure 4-3 (subsurface soil, 2 ft bgs to water table), which demonstrate that VOCs in unsaturated soils are delineated horizontally and vertically. Analytical results for VOCs in surface soil (0-2 ft bgs) are included as Table 4-2. Results for VOCs in subsurface soils (from 2 ft bgs to top of the water table) are included as Table 4-3.

4.1.2.2 Western Portion MGP Delineation of Semi-Volatile Organic Compounds

SVOCs in soils in the Western Portion were delineated in 2013 to HSRA Type 1 RRS in accordance with VRP requirements. The locations of delineation borings are shown on Figure 4-4 (surface soil) and Figure 4-5 (subsurface soil), which demonstrate that SVOCs in unsaturated soils have been delineated horizontally and vertically. Analytical results for SVOCs in surface soil (0-2 ft bgs) are included as Table 4-4. Results for subsurface soils (from 2 ft bgs to top of the water table) are included as Table 4-5.

4.1.2.3 Western Portion MGP Delineation of Inorganic Compounds

Inorganic COI associated with the former MGP operations have been delineated to HSRA Type 1 RRS in the Western Portion MGP according to VRP requirements. The locations of delineation borings are shown on Figure 4-6 (surface soil) and Figure 4-7 (subsurface soil), which demonstrate that inorganic COI in unsaturated soils have been delineated horizontally and vertically. Analytical results for inorganic COI in surface soil (0-2 ft bgs) and subsurface soils (from 2 ft bgs to top of the water table) are included as Table 4-6 and Table 4-7.

5.0 GROUNDWATER INVESTIGATION

As a result of the numerous groundwater investigations completed at the Site since 2002, groundwater at the Site has been delineated to VRP standards protective of human health and the environment. Details of groundwater monitoring results have been extensively detailed in reports previously submitted to EPD. The following sections provide the information required to demonstrate the achievement of delineation to VRP Standards.

5.1 General Approach and Rationale

Objectives of groundwater investigations have been to define the horizontal and vertical extent of dissolved COI, collect sufficient data to support development of appropriate corrective actions and, following the extensive corrective actions conducted at the Site, to confirm that the Site meets applicable cleanup goals. The network of groundwater monitoring wells has been adapted over the course of numerous investigations and corrective actions in order to effectively determine groundwater flow and gradients across the Site to evaluate characteristics of COI plume migration and monitor groundwater conditions in on-site and off-site areas. The existing groundwater monitoring network is shown on Figure 2-1. Well construction information for alluvial groundwater and bedrock groundwater monitoring wells is displayed in Table 3-2 and Table 3-5, respectively. Boring logs and well construction diagrams for all Site wells have been provided to EPD in previously submitted reports.

5.2 Horizontal and Vertical Extent of Constituents of Interest in Groundwater

Delineation standards under the VRP allow for the delineation of COI to the default HSRA Type 1 (residential) RRS (Table 5-1). The most recent groundwater sampling event was completed in February 2018. All existing alluvial and bedrock groundwater monitoring wells were sampled for Site COI and NA parameters in February 2018, with the exception of MW-111D and MW-309D where DNAPL was observed at the time of the event. February 2018 analytical results for alluvial wells and bedrock wells are presented in Table 5-2 and Table 5-3, respectively. Groundwater sampling records for each well sampled are included in Appendix D. Laboratory analytical reports are included as Appendix E. Data validation information is included as Appendix F. A summary of historical groundwater analytical data for the Site COI and NA parameters collected for the groundwater monitoring program (since 2001) is provided as Appendix G.

The horizontal delineation of benzene and naphthalene in alluvial groundwater to HSRA Type 1 RRS is presented on Figure 5-1 and Figure 5-2. As shown in Table 5-2, no VOCs other than benzene are detected in alluvial wells above HSRA Type 1 RRS. Naphthalene was detected above HSRA Type 1 RRS at the same well locations with benzene exceedances above Type 1 RRS. Concentrations of benzo(a)anthracene and chrysene detected at MW-12IR and MW-205, and benzo(b)fluoranthracene at MW-21 are equal to or above the HSRA Type 1 RRS but below the HSRA Type 2 RRS. As none of these wells are perimeter locations, horizontal delineation to HSRA Type 1 RRS in alluvial groundwater for VOCs and SVOCs is complete based on non-detections at surrounding locations.

Cadmium was detected at two alluvial well locations and chromium at one location above the HSRA Type 1 RRS (Table 5-2). As no VOCs or SVOCs were detected at any of these three locations, and because the wells are in different areas of the Site with either no detection or detections below Type 1 RRS of cadmium and chromium at wells between these locations, the exceedances are isolated and may be indicative of natural occurrence of these constituents in the environment.

The horizontal delineation of benzene in bedrock groundwater to HSRA Type 1 RRS is presented in Figure 5-3. Benzene is detected at a concentration slightly above the HSRA Type 1 RRS at MW-308D. Benzene concentrations detected at MW-308D since 2015 show a decreasing trend (Appendix G). The well is located in Terminal Avenue near the Norfolk Southern rail line. Installation of additional bedrock wells to complete delineation is impracticable due to the adjacent, active Norfolk Southern rail line which limits ability to safely use a drill rig in the area, and the ISS mass north and east of the well. VOC and SVOC COI have never been detected above HSRA Type 1 RRS at MW-108D or MW-08D, which are located approximately 200 ft and 450 ft, respectively, east of MW-308D, in the direction of decreasing hydraulic potential. In addition, no other COI are detected at MW-308D above HSRA Type 1 RRS, indicating that all other Site COI are delineated in this area.

The only other VOC detected above HSRA Type 1 RRS is in bedrock groundwater is toluene, which was only detected at one location, MW-305D. Surrounding wells with no detections of toluene serve as delineation points and indicate the limited occurrence of toluene at MW-305D.

Naphthalene in bedrock groundwater has been horizontally delineated as shown on Figure 5-4. As noted in previous reports, no VOCs or SVOCs have ever been detected at perimeter monitoring wells MW-22D (monitored since 2005), MW-23D (monitored since 2003), MW-26D (monitored since 2004) or MW-27D (monitored since 2001). Also noted in previous reports, COI concentration detections and fluctuations occurring since 2014 at MW-24D appear to be the result of bedrock aquifer disturbances such as drilling and/or DNAPL recovery activities near the intersection of Walnut Street and 7th Street, which destabilize the plume. Data collected in 2016 and 2017 indicate that the time to reach steady-state conditions at MW-24D after a bedrock disturbance as described above is likely to be at least a year. The February 2018 detection of naphthalene at MW-24D appears to be a residual result of the most recently completed DNAPL recovery event at MW-111D and MW-309D, which was conducted in June 2016. Benzene was not detected at MW-24D, indicating the naphthalene detection is likely due to intra-well variability caused by the previous disturbance of static groundwater conditions and not indicative of plume migration.

Concentrations of benzo(a)anthracene and chrysene detected at MW-12DRR and MW-110D, and benzo(a)anthracene at MW-204D and MW-206D, are equal to or slightly above the HSRA Type 1 RRS. None of these wells are perimeter locations; therefore, delineation to HSRA Type 1 RRS for these compounds is complete by non-detections at surrounding locations. The only inorganic COI detected in bedrock groundwater samples above the HSRA Type 1 RRS is barium, with a single detection of cyanide that exceeded the Type 1 RRS (Table 5-2). Barium detections and the cyanide detection are limited to wells located near the intersection of Walnut Street and 7th Street where benzene and/or naphthalene also exceed Type 1 RRS. No inorganic COI are detected above HSRA Type 1 RRS in wells located in the Western Portion MGP area

nor in perimeter wells MW-22D, MW-23D, MW-26D and MW-27D, demonstrating delineation of inorganic COI. Deep bedrock monitoring wells MW-27DD and MW-205DD complete vertical delineation of VOCs, SVOCs and inorganic compounds.

Cross-sections showing horizontal and vertical delineation of all Site-related COI are included as Figure 3-3, Figure 3-4 and Figure 3-5.

6.0 COMPLIANCE WITH VRP STANDARDS

6.1 Soil Compliance – Mulberry Street MGP Area

All soils at the Site are in compliance with EPD-approved HSRA RRS cleanup standards or with VRP standards determined using exposure area averaging methods. The HSRA RRS and the VRP standards were calculated using EPD-approved methods and are protective of human health and the environment in accordance with requirements for delisting from the HSI. As noted in Section 1, soils impacted by former operations at the Mulberry Street MGP were certified as compliant with applicable RRS in the 2004 CSR (Table 1-2, Figure 1-4 and Appendix A). Numerous previously-submitted reports provide details of the completion of delineation and corrective actions in accordance with EPD-approved CAP, CAP-A or other basis of design documents and the 2004 CSR and the results of soil sampling demonstrating compliance of the certified parcels.

6.2 Soil Compliance – Western Portion MGP Area

The 2016 CACR presented the activities completed to address soils impacted by former Western Portion MGP operations. As demonstrated below, soil on parcels impacted by Western Portion MGP former operations is in compliance with HSRA RRS using either a point-by-point comparison, or by using an area averaging approach in accordance with the VRP, whereby the average concentration of any COI remaining in soil on an individual property after corrective action is at or below the RRS cleanup value. For the Site, the average concentration is defined as the 95% upper confidence limit (UCL) of the average utilizing ProUCL software. Both the point-by-point and area averaging methods for demonstrating compliance with cleanup standards are recognized and acceptable to EPD for certifying Site closure and delisting under the VRP. Figure 6-1 through Figure 6-3 show locations of the corrective actions completed at the Western Portion MGP. Corrective actions to bring soil into compliance with VRP standards by parcel are summarized below. Detailed information regarding rationale for design of the corrective actions, soil boring drilling logs, soil screening and collection methods, borehole abandonment techniques, sample handling and preservation techniques, decontamination procedures and laboratory methods are described in the 2014 VIRP and the 2016 CACR.

Excavation and ISS corrective actions in the Western Portion MGP began in May 2015 (Figure 3-1). Vadose zone soils that were impacted above established RRS or were observed to contain MGP-related BPLM were excavated for off-site disposal. The ISS treatment area encompassed the full horizontal and vertical extent of alluvial soils where MGP-derived BPLM was observed during previous investigations. The ISS mass extends at least 2 ft into the saprolite except in isolated areas where refusal was encountered at a depth estimated to be shallower than top of saprolite. In addition, three widths of ISS columns were installed around the perimeter of the ISS area, extending at least 5 ft into the saprolite, to increase the probability that the ISS was installed into competent material to eliminate potential for migration of COI. Excavation, ISS and restoration activities were completed in April 2016 (ERM, 2016a).

The horizontal and vertical extent of MGP impacts in soil and delineation of VOC, SVOC and inorganic COI in the Western Portion are shown on Figures 4-2 through 4-7, and laboratory analytical results are presented in Tables 4-2 through 4-7. These figures depict all boring

locations within the Western Portion corrective action area where soils were determined to be compliant with residential RRS calculated pursuant to HSRA for VOCs, SVOCs and inorganic compounds. The laboratory analytical results were used to identify areas where soil is in compliance with residential standards so that those soils could be stockpiled for reuse as backfill during Site restoration following implementation of excavation and ISS corrective actions proposed in the 2014 VIRP. Areas where COI in soil exceeded residential RRS were delineated and the soil excavation areas included in the planning of Western Portion corrective actions were designed to remove soils identified above residential RRS.

Confirmation soil samples were collected from excavation area sidewalls and floors during the 2015-2016 Western Portion corrective actions to verify limits of soil removal to achieve compliance. Excavation limits were expanded, and confirmation samples collected from the limits of the expanded excavation to confirm removal of soils with COI above applicable HSRA RRS, when additional excavation was deemed necessary. The 14 excavation areas were discussed in the CACR (ERM, 2016a). The excavation areas and locations of confirmation samples collected from sidewalls and floors are shown on Figures 6-1 through 6-3.

- Excavations completed from 0-2 ft bgs (Figure 6-1):
    - Areas 1 and 3 represent excavations completed to a depth of 2 ft bgs within the footprint of the ISS area. The majority of Area 2 was within the limits of the ISS, with a small portion extending beyond the footprint to the south, into the Macon-Bibb County ROW. Excavation areas 4 through 7 represent excavations completed to a depth of 2 ft bgs beyond the footprint of the ISS.
- Excavation completed from 2-6 ft bgs (Figure 6-2)
    - Excavation 8 was completed from 2 ft bgs to 6 ft bgs with small areas in the north (on AGLC property), in the south (Macon-Bibb County ROW) and southwest (AGLC property) beyond the ISS area. Excavation 9 was completed from 2 ft bgs to 6 ft bgs within the footprint of the ISS, and area 10 was completed from 2 ft bgs to 6 ft bgs beyond the ISS area.
- Excavations completed from 6 ft bgs to the water table (Figure 6-3):
    - Areas 11 through 14 were completed from 6 ft bgs to 10 ft bgs within the ISS footprint.

As shown on Figures 6-1, 6-2 and 6-3, soils were either excavated and transported off-site for disposal or were stockpiled for re-use as backfill.

6.2.1 Compliance of Backfill Soil with VRP Standards

Stockpiled soils on-Site that met standards were used for backfill for site restoration. These soils were sampled at a frequency of one sample per 250 cubic yards of soil to confirm that reused soils met applicable RRS. Details of the excavation activities and confirmation sampling were provided in the CACR. All stockpile soil used as backfill at the Site is in compliance with residential RRS.

A total of 62 soil samples were collected and analyzed for all Site COI; results are shown in Table 6-1. With the exception of benzo(a)pyrene, no COI were detected above HSRA

residential RRS (Type 1 and/or Type 2); therefore, backfill is in compliance with residential standards for all COI except benzo(a)pyrene using the point-by-point evaluation method.

Compliance of backfill soil with residential Type 1 and/or Type 2 RRS for benzo(a)pyrene was assessed using the area averaging method. The UCL (95% confidence interval) for benzo(a)pyrene for the soil samples was determined to be 0.543 µg/L, which is well below the HSRA Type 1 RRS of 1.64 µg/L. Therefore, backfill soil complies with VRP standards. Outputs from the UCL calculations are included as Appendix H.

6.2.2 Compliance of Norfolk Southern Property (West of Terminal Avenue) with VRP Standards

Locations of the 23 soil borings advanced on the Norfolk Southern property west of Terminal Avenue are shown on Figure 4-1. No BPLM impacts were observed in unsaturated soils collected from any of the 23 borings. Laboratory analytical results for unsaturated soil samples collected from borings SB-910 through SB-914 in March 2013 (ERM, 2014a) are presented in Tables 4-2 through 4-7. No VOCs, SVOCs or inorganic compounds in surface or subsurface samples were detected above the HSRA Type 4 (non-residential) RRS approved for the property. Compliance with Type 4 RRS is consistent with current and anticipated future use of this property.

An investigation completed in November 2013, described in detail in the 2016 VIRP, confirmed visual indication of MGP residual impacts in borings NS-1, NS-2, NS-3, NS-6 and NS-8 (Table 6-2 and Figure 4-1). Meetings with Norfolk Southern during the design phase of the Western Portion remedy led to the understanding that the “double main line” west of Terminal Avenue where MGP impacts were observed is critical to the Norfolk Southern operations. Since invasive remediation was not possible on the property, this area will be designated as in compliance with VRPA clean up criteria for soil through use of institutional controls.

Institutional controls, in the form of a UEC, will be used to prevent excavation below 2 ft bgs to mitigate potential exposure to residual MGP impacts in the saturated zone. Compliance status is shown on Figure 6-4.

6.2.3 Compliance of Prodigy Woodworks Sub-parcel of R081-0135 with VRP Standards

This parcel is owned by Prodigy Woodworks and was subdivided from Parcel No. R081-0076 and is located at 310 6th Street, adjacent to the southern corner of the intersection of Mulberry Street and 6th Street (Figure 1-3). The larger parcel from which R081-0135 was subdivided (previously OC-26-3A) was certified as complying with Type 2 RRS in the 2004 CSR, which was approved by EPD in a letter dated December 7, 2004; a copy of which is included in Appendix A. As summarized previously, additional soil investigations were completed on this property during the pre-design investigation to delineate the extent of potential residual MGP impacts beneath the building previously located on this parcel. Minimal, residual MGP impacts (BPLM stringers and blebs) have been identified in saturated subsurface soils beneath the new sub-parcel (Figure 4-1 and Table 4-1). Although no unsaturated soil impacts were identified at this parcel, as a conservative measure, institutional controls in the form of a UEC will be used to prevent groundwater extraction or use on the property. Currently, ground surface at the parcel is

concrete and the area is used as a parking lot. The anticipated long-term use of the parcel is for parking.

6.2.4 Compliance of Macon-Bibb County Right-of-Ways with VRP Standards

COI in unsaturated soil at the Macon-Bibb County parcel and within ROWs were delineated to HSRA Type 1 RRS prior to implementation of corrective actions in 2015 (Figures 4-2 through 4-7 and Tables 4-2 through 4-7). COI within the corrective action footprint that exceeded HSRA residential RRS (Type 1 and/or Type 2) were excavated and sent off-site for disposal during the remedial activities. Confirmation samples from excavation sidewalls and floors were collected and analyzed for COI to verify removal of soil above HSRA residential RRS. In instances where COI were detected in the confirmation sample above the target cleanup level, additional excavation was completed, and confirmation samples collected until laboratory analytical results showed compliance with RRS.

6.2.4.1 Surface Soil (0-2 ft bgs)

Excavation Area 6 and portions of Areas 1 and 2 were completed on Macon-Bibb County property (Figure 6-1). Within Area 6, the only COI detected above HSRA residential standards in surface soil during pre-design investigations were benzo(a)anthracene, benzo(a)pyrene, fluoranthene, antimony, arsenic, beryllium, copper and lead; therefore, confirmation samples from this excavation were analyzed for these COI. Confirmation samples within Areas 1 and 2 were analyzed for benzo(a)anthracene, benzo(a)pyrene and arsenic based on the pre-corrective action investigations. As discussed in the CACR, additional soil excavation was completed in 6th Street to address impacts observed while disconnecting a gas service line in corrective action area. Confirmation samples from this excavation were analyzed for all Site COI. Analytical results for surface soil confirmation samples collected from property owned by the Macon-Bibb County are included in Table 6-3.

Benzo(a)pyrene, arsenic and lead were the only COI detected in surface soil samples on Macon-Bibb County property that exceeded HSRA residential RRS. Statistical evaluation of the confirmation sample results shows that the UCL for benzo(a)pyrene (1.21 mg/kg) is below the HSRA residential standard (1.64 mg/kg). The UCL for arsenic (13.52 mg/kg) is below the HSRA residential standard (25 mg/kg), and the UCL for lead (219.9 mg/kg) is below the HSRA residential standard (400 mg/kg). Outputs for the UCL calculations are included as Appendix H.

6.2.4.2 Subsurface Soil (2 ft bgs to Water Table)

Locations of excavation confirmation samples on Macon-Bibb County property collected below 2 ft bgs are shown on Figures 6-2 and 6-3. Benzo(a)anthracene was the only COI detected above HSRA residential RRS during the pre-design investigations and was therefore the only COI analyzed in confirmation samples. The analyte was not detected above HSRA Type 1 RRS in any of the confirmation samples collected (Table 6-4).

6.2.4.3 Summary of Macon-Bibb County Right-of-Way Compliance

Utility corridors were constructed in Terminal Avenue, Mulberry Street and 6th Street for the benefit of the Macon-Bibb County by removing soil within the corridors to 10 ft below street grade. The corridors were backfilled with stockpiled soil, which is in compliance with residential

RRS (see Section 6.2.1). The Macon-Bibb County property complies with HSRA residential RRS for soil (Figure 6-4) and VRP standards for groundwater through execution of an environmental covenant to restrict groundwater use. The UECs will also include restrictions on excavation within the ISS footprint where applicable (Figure 6-4).

6.2.5 Compliance of AGLC Parcel with VRP Standards

COI in unsaturated soil at the AGLC parcel R073-0384 were delineated to HSRA Type 1 RRS prior to implementation of corrective actions initiated 2015. COI within the excavation that exceeded HSRA residential RRS (Type 1 or Type 2) were identified prior to implementation of corrective action and were sent off-site for disposal during the excavation activities. Confirmation samples from excavation sidewalls and floors were analyzed for COI that exceeded HSRA residential RRS. Surface and subsurface soils at the AGLC parcel are in compliance with HSRA residential RRS as detailed below.

6.2.5.1 Surface Soil (0-2 ft bgs)

Only benzene and chloromethane were detected above residential standards in borings on the former MI&P property in March 2013 (Table 3-1). Excavation Area 7 (Figure 6-1) was designed to address these COI. Confirmation sample results for Area 7 presented in Table 6-5 show that neither benzene nor chloromethane were detected in confirmation soil samples. As such, surface soil in the northern portion of the AGLC parcel is in compliance with residential standards as calculated under HSRA.

Benzo(a)anthracene, benzo(a)pyrene and arsenic were the only COI detected in surface soil samples collected from borings completed as part of remedial design investigations in the southern portion of the AGLC parcel that exceeded HSRA residential RRS. Excavation Areas 2 and 3 were designed to address these impacts (Figure 6-1). Confirmation sample results for Area 2 presented in Table 6-5 show benzo(a)anthracene and arsenic were not detected in any samples above HSRA residential criteria. Benzo(a)pyrene was detected in three samples above HSRA residential standards. The confirmation samples represent the extent of excavation and the concentration of benzo(a)pyrene that remains on the property beyond the excavation limits. ProUCL was used to statistically evaluate benzo(a)pyrene concentrations in the confirmation samples. The UCL for benzo(a)pyrene was determined to be 4.695 mg/kg, which is above residential RRS and below non-residential RRS. Outputs for the UCL calculations are included as Appendix H.

Based on investigations and corrective actions completed at the Site, benzo(a)pyrene is the only COI that potentially remains at the AGLC parcel in surface samples above residential standards as calculated under HSRA. The approximate area of the AGLC parcel is 2.73 acres, and can be divided into three subareas based on available data:

1. The northern subarea, approximately 1.87 acres (68.5% of total parcel area) is represented by data collected in March 2013 at DDSB locations. Benzo(a)pyrene results for surface soils collected in March 2013 from DDSB locations (Table 3-1) in the northern portion of the AGLC parcel (Figure 3-2) were statistically evaluated to establish a UCL representative of the area. The calculated UCL was 0.145 mg/kg, an order of magnitude below the residential RRS of 1.64 mg/kg (Appendix H).

2. A second subarea is within the ISS footprint, which was backfilled with stockpiled soil and represents approximately 0.45 acres (16.5% of total parcel area). As noted above, stockpiled soil is in compliance with residential RRS under HSRA for all COI.
3. The final subarea is the southern portion of the parcel where soil was not excavated and is represented by the confirmation soil samples collected for Area 2 as shown in Figure 6-1 (approximately 0.41 acres, or 15% of total area).

Using this data to represent the AGLC parcel in its entirety, a weighted average UCL for benzo(a)pyrene was calculated to assess compliance with residential RRS:

Area Description	Area (ac)	Benzo(a)pyrene UCL (mg/Kg)
Northern Subarea of Parcel	1.87	0.145
Backfill Area	0.45	0.543
Southern Subarea /Unexcavated Portion	0.41	4.695
Entire Parcel (UCL)	**2.73**	**0.894**
Type 1 RRS (under HSRA)		1.64
Parcel Compliant with Residential RRS?		**Yes**

6.2.5.2 Subsurface Soil (2 ft bgs to Water Table)

Subsurface soil on the AGLC parcel beyond the limits of excavation Areas 8, 9 and 10 (Figure 6-2 and 6-3) were determined to be in compliance with HSRA residential RRS during remedy pre-design investigations. Areas 8, 9 and 10 were designed to address detections of benzene, benzo(a)anthracene, arsenic and chromium in subsurface soil within the limits of excavation. Confirmation samples collected the excavation areas are present in Table 6-6 and locations are shown on Figure 6-2 and Figure 6-3. No COI were detected above HSRA residential RRS in subsurface samples.

6.2.5.3 Summary of AGLC Parcel Compliance

Surface and subsurface soils at the AGLC parcel (parcel no. R073-0384) are in compliance with residential RRS (Figure 6-4). Compliance has been demonstrated using point-by-point comparison of COI concentrations in soil to VRP standards except in the case of benzo(a)pyrene where exposure area averaging methods were used.

6.3 Groundwater Compliance with Site-Specific VRP Standards

The following sections summarize the compliance status of groundwater at the Macon Site. Alluvial groundwater and bedrock groundwater compliance are discussed separately as the location of residual COI impacts in alluvial groundwater only exists in the western portion of the

Site and residual COI impacts in bedrock groundwater exist in the eastern portion of the Site. Further, potential exposure pathways for alluvial groundwater and bedrock groundwater are different due to the depth of impacted groundwater, and the differences in aquifer characteristics that govern the applicability of potential pathways. Under the VRP, appropriate VRP standards to use for comparison to COI concentrations and/or the methods used to evaluate whether residual dissolved phase COI concentrations may pose an adverse risk to potential receptors is based on potentially complete exposure pathways.

6.3.1 Alluvial Groundwater Compliance

Alluvial groundwater at the Site is in compliance with HSRA Type 1 RRS with the exception of the limited area defined by groundwater monitoring wells AMW-14, AMW-15 and MW-205 where benzene and naphthalene were detected at levels above HSRA Type 1 RRS (Figure 5-1, Figure 5-2 and Table 5-2). Isolated detections of benzo(a)anthracene and chrysene at MW-12IR and MW-205, and benzo(b)fluoranthracene at MW-21 are equal to or above the HSRA Type 1 RRS but below the HSRA Type 2 RRS. Isolated detections of chromium at AMW-11 and cadmium at MW-11 and MW-28, as discussed in Section 5.2, exceed HSRA Type 1 and HSRA Type 2 RRS. However, as no VOCs or SVOCs were detected at any of these three locations, and because the wells are in different areas of the Site with either no detection or detections below Type 1 RRS of cadmium and chromium at wells between these locations, the exceedances are may be indicative of natural occurrence of the compounds in the environment and are not attributable to former MGP operations. As such, the only area of the Site where concentrations of MGP-related COI exist is the area adjacent to the western boundary of the Western Portion ISS on the Norfolk Southern property west of Terminal Avenue, and in the Macon-Bibb County ROW along Terminal Avenue adjacent to the Norfolk Southern parcel where corrective action could not be completed due to the active Norfolk Southern rail line (Figure 5-1 and Figure 5-2).

As discussed in Section 6.2.2, meetings with Norfolk Southern during the design phase of the Western Portion remedy led to the understanding that the “double main line” west of Terminal Avenue where MGP impacts were observed is critical to the Norfolk Southern operations and invasive remediation was not possible on the property. As such Norfolk Southern has agreed to restrict groundwater use in this area and the area will be designated as in compliance with VRP standards for groundwater through use of institutional controls. Macon-Bibb County has also agreed to restrict groundwater use in the ROW and the area will be designated as in compliance with VRP standards for groundwater through use of institutional controls.

6.3.1.1 Alluvial Groundwater Plume Stability and Natural Attenuation of Constituents of Interest

Alluvial groundwater COI plume stability and the extent to which aquifer conditions are conducive to NA were evaluated in order to assess the potential for impacts to alluvial groundwater to migrate beyond the limits of the groundwater use restrictions. In addition, the NA evaluation can be used to conservatively assess the potential for COI to persist at current locations at concentrations that may potentially pose an adverse risk of vapor intrusion at any future enclosed structures (although the construction of a structure on the Norfolk Southern rail line property or within the Macon-Bibb County ROW is highly unlikely). NA in an aquifer limits

the migration of dissolved phase COI and ultimately results in decreased COI concentrations as COI are naturally oxidized by microorganisms to innocuous end-products such as water and methane.

Snapshots of the distribution of dissolved phase COI (benzene and naphthalene, specifically) in alluvial groundwater in 2000-2001, 2013-2015 and the current, 2018 distribution are shown on figures in Appendix I. DNAPL has not been detected in alluvial wells; therefore, this plume stability demonstration focuses on dissolved phase COI. The figures provide a demonstration of how corrective actions have effectively been implemented to reduce the size of the dissolved phase plume. Additionally, the lack of migration from the source release areas to downgradient wells demonstrates the stability of the plume extent. In particular, benzene and naphthalene have been below Type 1 RRS in downgradient perimeter wells, and even at wells located between corrective action areas and the perimeter wells since 2000, as indicated by monitoring well locations highlighted in green.

As a threshold point, it is important to recognize that the releases at the Site are quite old, dating back a minimum of 80 years and likely more than 150 years. Despite the passage of many decades, the groundwater impacts have not spread more than a few hundred feet downgradient from the two MGPs, even before corrective action. Data collected at the Site over a period of approximately 20 years demonstrates clearly that:

- groundwater flow conditions in the alluvial aquifer have remained consistent over time (Figure 6-5);
- the alluvial groundwater monitoring network has been capable of detecting any potential migration from cross-gradient and downgradient flow;
- the plume is no longer migrating but, rather, has been shrinking since the first phase of soil excavation and ISS in 2002; and
- detected concentrations of COI are limited to a small, isolated area west of Terminal Avenue within the Macon-Bibb County ROW at Terminal Avenue and on Norfolk Southern property adjacent to an active rail line; and
- with the exception of the area noted in the previous bullet, all detected concentrations of COI in alluvial groundwater are below residential HSRA RRS rendering the exposure pathway for alluvial groundwater incomplete for the vast majority of the Site.

As discussed below, evaluation of NA parameters indicate that dissolved phase COI are unlikely to migrate beyond the current extent at AMW-14, AMW-15 and MW-205 due to the ongoing occurrence of natural biodegradation processes at the Site. These processes have been evaluated during numerous quarterly and semiannual groundwater monitoring events and reported in previously-submitted semiannual monitoring reports. As noted in the previous reports, the observed distributions of dissolved oxygen (DO), oxidation-reduction potential (ORP), nitrate, nitrogen, carbon dioxide, methane, iron, and ferrous iron appear to be related to the distributions of dissolved MGP-related organic COI and, therefore, provide evidence that natural biodegradation processes are occurring.

When DO is present in groundwater at sites impacted by non-chlorinated organic contaminants, microorganisms will preferentially use the oxygen as a terminal electron acceptor as they oxidize organic compounds to carbon dioxide and water. However, when oxygen is not present or has been consumed, microorganisms may use available alternative electron acceptors (nitrate, ferric iron, sulfate, manganese (IV), and carbon dioxide) to metabolize organic compounds. In the course of this process, electron acceptors are converted to their respective reduced forms (nitrite, ferrous iron, sulfide, manganese (II), and methane), which are then released as byproducts of the metabolic processes. Thus, measuring and comparing concentrations and distributions of electron acceptors and reduced metabolic byproducts to concentrations and distributions of organic constituents can reveal a pattern indicative of biodegradation activity.

Groundwater samples with elevated concentrations of organic COI and/or methane generally exhibited lower DO values as oxygen is consumed during biodegradation of organic compounds. Laboratory measurements of groundwater samples collected in February 2018 indicated the lowest concentration of DO was in the sample collected at MW-205 (1.6 mg/L; Table 5-2). DO measurements at AMW-14 and AMW-15 were 4.0 mg/L and 4.6 mg/L, respectively, which are each below the average DO measurement of 6.58 mg/L for samples collected in February 2018 (Table 5-2). Low ORP measurements, such as the measurement of -67.87 millivolts at MW-205, suggest that biodegradation of MGP-related organic constituents is consuming available oxygen which results in an anaerobic environment near the well.

Nitrate was not detected at AMW-14, AMW-15 or MW-205 (Table 5-2), suggesting that biodegradation of benzene and naphthalene at these locations may be occurring through a nitrate reduction pathway. Methane was detected at AMW-14, AMW-15 and MW-205, providing evidence that biodegradation is occurring via reduction of carbon dioxide to methane as methane in groundwater occurs exclusively as a by-product of the anaerobic biodegradation of organic compounds. Detection of ferrous iron at the three locations with benzene and naphthalene detections provides an indication that biodegradation of organic COI may also be occurring via the iron reduction pathway.

Historical and recent data indicate that biodegradation of MGP-related organic COI is naturally occurring at the Site and in this area in particular, such that these concentrations will continue to decline going forward. Based on consistency of past groundwater flow conditions which allows for prediction of the direction of any potential future plume migration, combined with evidence of historical plume shrinkage due to corrective actions and, to a lesser extent, ongoing NA processes, the data support that COI in alluvial groundwater in the restricted use areas will continue to decrease and will not migrate beyond the extent of these areas.

In summary, alluvial groundwater at the Site is in compliance with residential (Type 1 and/or Type 2) RRS, with the exception of an isolated area where institutional controls will be used to restrict groundwater use to achieve compliance in accordance with the VRP.

6.3.2 Bedrock Groundwater Compliance

Under the VRP, groundwater cleanup to the extent necessary to protect human health and the environment can be evaluated based on exposure of potential receptors via potentially complete exposure pathways. Per the VRP statute, groundwater compliance and delisting from the HSI

can be achieved by demonstrating that remaining dissolved phase concentrations will not exceed exposure-pathway specific standards at the identified point of exposure (POE) where a receptor could come into contact with remaining COI at concentrations that may pose a risk. The POE is defined in the VRP as the nearest of:

- closest existing downgradient drinking water supply well;
- likely nearest future location of a drinking water well where public water supply is not currently available and is not likely to be made available in the foreseeable future; or
- hypothetical point of drinking water exposure located at a distance of 1,000 ft downgradient from the delineated contamination.

There are no existing water supply wells within a 1,000 ft radius used for drinking water, or any other use. Public water is currently available to the area and will continue to be available in the future; therefore, evaluation based on current or future drinking water well installation is not applicable. The relevant POE therefore becomes a hypothetical well at a distance of 1,000 ft from the extent of COI impacts.

As shown on Figure 5-4 and 5-5 and noted in previous VRP Semiannual Progress Reports, detections of VOCs and SVOCs above laboratory detection limits are isolated to an area close to the Mulberry Street ISS mass, near the intersection of Walnut Street and 7th Street. Detections of VOCs and SVOCs do not extend more than 400 feet from MW-111D, a location where DNAPL has been observed since 2006. No COI have ever been detected at perimeter wells MW-22D, MW-23D, MW-26D or MW-27D (all located less than 1,000 ft from MW-111D), indicating that the area where dissolved phase COI are present is limited in extent and there is no migration of the dissolved phase plume at concentrations nearing HSRA Type 1 RRS beyond a distance of approximately 400 ft from MW-111D. In summary, data collected at the Site provides a demonstration that a hypothetical well located 1,000 ft from remaining dissolved phase MGP-impacts and residual DNAPL would not be impacted by COI above Type 1 RRS.

6.3.2.1 Bedrock Groundwater Plume Stability

An evaluation of historical dissolved phase COI and DNAPL distribution was conducted as part of a bedrock groundwater plume stability assessment to reasonably predict the potential for a hypothetical well to be impacted COI from former MGP operations in the future. Figures included as Appendix J present a history of the distribution of dissolved phase COI and DNAPL in bedrock groundwater. Snapshots of distribution of dissolved phase COI (benzene and naphthalene, specifically) in bedrock groundwater in 2000-2002, 2013-2015 and 2018 are shown. The figures provide a demonstration of the lack of migration of COI and limited occurrence of DNAPL during approximately 20 years of groundwater monitoring. Benzene and naphthalene detections in groundwater have been and continue to be limited to the east corner of the 2009 ISS and have not extended more than 400 ft from MW-111D, and DNAPL has never been detected at a distance of more than approximately 75 ft east of the 2009 ISS.

Benzene and naphthalene concentrations detected in bedrock perimeter wells and other bedrock wells located between the perimeter wells and the area of corrective actions completed since 2000 have been, and remain, below Type 1 RRS for approximately 20 years, as indicated by monitoring well locations highlighted in green (Appendix J). A conceptual model of the

conditions at the intersection of Walnut Street and 7th Street, where residual impacts exist in bedrock groundwater, is shown in Figure 6-6. Data collected at the Site over a period of approximately 20 years provides substantial evidence that:

- the plume extent is known, delineated and has not migrated in approximately twenty years of continuous monitoring;
- DNAPL and dissolved phase COI are stable and not migrating, a condition that is expected to continue based on corrective actions performed to remove source areas, natural attenuation, physical properties of DNAPL, and bedrock hydrogeological studies which have shown no potential for mobility, and
- Further, the bedrock hydrogeological setting (fracture size and type and bedrock competency) provides an impediment to the movement of impacts in groundwater and therefore does not present a risk to any potential receptors.

In summary, no migration of dissolved phase COI is expected beyond the current extent based on the long history of available sampling data. Further, the area of DNAPL impact is in a steady state with no further migration expected.

6.3.2.2 Bedrock Groundwater Point of Exposure Evaluation

There are no drinking water wells located within 1,000 ft of the Macon Site, and based on land use in the area, the availability of public water, and the low yield of the bedrock aquifer, installation of a well in the area is highly improbable. Evaluation of all potentially complete pathways whereby a receptor may come into contact with dissolved phase COI or DNAPL indicates that the most likely, reasonable POE is the Ocmulgee River. The Ocmulgee River is located approximately 1,000 ft from the Site and is the likely discharge point for groundwater in the area, acting as a barrier to migration of dissolved phase COI. As such, the Ocmulgee River will be considered as the most likely POE for the purpose of evaluating protection of human health and the environment and status of groundwater compliance with the VRP.

At the closest point, the Ocmulgee River is located approximately 1,000 ft northeast of the Site (Figure 1-1). Hydraulic potential in bedrock groundwater is towards the Ocmulgee River (Figure 3-7). Thus, as a conservative exercise, a calculation was performed to determine the concentration of each detected COI in groundwater beneath the Site that could potentially result in groundwater concentrations at the point of discharge to the river in exceedance of drinking water standards, which are even more conservative than applicable In Stream Water Quality Standards. As shown in Table 6-7, the resulting concentrations are orders of magnitude higher than the highest concentrations present anywhere at the Site. Ocmulgee River surface water gauge information used in the calculations is included as Appendix K.

In summary, there are numerous bedrock groundwater monitoring wells located between the Site and the Ocmulgee River that have never had a detection of COI above laboratory detection limits and/or above Type 1 RRS (MW-22D, MW-23D, MW-113D, MW-112D, MW-27D, MW-26D). Data from years of groundwater monitoring at the Site demonstrate that dissolved phase COI are isolated to one localized area of the Site and are unlikely to migrate beyond 400 ft from that area. The POE evaluation shows that even under extreme circumstances (modeling using

very conservative inputs and assumptions), the residual dissolved phase impacts in bedrock at the Site do not pose a risk to a potential receptor at the groundwater POE.

6.4 Summary of Soil and Groundwater Compliance Status

As a result of the numerous corrective actions completed at the Site since 2002, soil at all parcels comprising the Macon Site are in compliance with residential or non-residential HSRA RRS, as applicable to current and future property use or in compliance with VRP standards using engineering and/or institutional controls. Groundwater at the Site is either in compliance with HSRA Type 1 RRS, in compliance with VRP requirements through the execution of UECs or is in compliance with VRP requirements based on cleanup standards demonstrated to be protective of human health and the environment.

7.0 EXPOSURE ASSESSMENT

No complete pathways exist at the Site that would result in receptor exposure to Site COI above concentrations protective of human health or the environment. Land use surrounding the Site is primarily industrial/commercial. VRP qualifying properties associated with former operation of MGPs at the Site consist of undeveloped parcels, Macon-Bibb County ROWs and active rail lines. Investigations and corrective actions were previously completed on several adjacent properties under the HSRA program, and certifications of compliance for soil at those properties were included in the 2004 CSR (Appendix A). Certifications of compliance for soil at remaining properties impacted by former MGP operations are included in this VRP CSR. Potential receptors were identified in the VIRP through the evaluation of potentially complete exposure pathways based on existing and potential future land use, and the physical setting of the Site. This Section provides an update of the exposure assessment provided in the VIRP based on current and anticipated Site conditions.

This section examines (a) whether individuals may be present on the subject properties, and are therefore identified as potential receptors, and (b) whether there is a reasonable likelihood for activities that can result in contact with environmental media containing site-related COI; i.e., potentially complete exposure pathways.

Potential receptors and their exposure pathways are identified in the VIRP based on current and reasonably anticipated, or covenant-defined, future land use and groundwater use. The first study to identify potential receptors was summarized in the 2000 CAP. The potential receptor survey included a land use survey, water well survey, and an evaluation of surface water flow/storm water runoff conditions. The water well survey was updated in the VIRP to reflect current information provided by the Macon Department of Public Health in September 2014.

7.1 Soil Pathway

The 2004 CSR included compliance certifications and supporting data for numerous properties, City ROWs and CCP. The current and expected future use of these areas was re-assessed as part of the VRP CSR process. The standards used to certify the properties per current and expected future use remain applicable; surface and subsurface soils have been addressed to the extent necessary to be protective of human health and environment and no future action is required. Compliance status of soil at properties certified in the 2004 CSR is shown on Figure 1-4.

Surface and subsurface soil at parcels associated with the Western Portion MPG, including the City ROWs, are in compliance HSRA-calculated residential standards and land use restrictions (i.e., institutional controls limiting land use to nonresidential purposes only) are not needed to prevent unacceptable exposure to potential receptors, with two exceptions. Institutional controls are necessary for the Norfolk Southern Parcel and the sub-parcel at the corner of Mulberry Street and 6th Street (owned by Prodigy Woodworks), where corrective actions were not completed based on the property owners' desire to instead execute UECs to mitigate potential risk to any current or future receptors. Potential receptors at the Norfolk Southern property are authorized railroad personnel who perform track maintenance and inspection activities. Reported COI concentrations in the surface soil currently meet HSRA non-residential risk-based

standards, and Norfolk Southern intends to execute a covenant to limit disturbance of the soil (including surface and subsurface) to protect the integrity/safety of the rail line and limit interruption of rail service. With the execution of the UECs, pathways associated with potential exposure to COI in soil will be incomplete and the parcels will comply with requirements of the VRPA.

Institutional controls will be implemented at parcels where digging restrictions are required to maintain the integrity of ISS masses though execution of UECs. Compliance status of soil at properties associated with the former Western Portion MGP are shown on Figure 6-4.

7.2 Groundwater Pathway

Alluvial groundwater at the Site is in compliance with HSRA residential RRS with the exception of an isolated area on property owned by Norfolk Southern used as an active rail line, and the adjacent Macon-Bibb County ROW. The portion of the Norfolk Southern property with residual dissolved phase impacts was enrolled in the VPR in 2014 as a qualifying property with the Site, as impacts in the area where known but could not be addressed due to the rail line operations. Norfolk Southern intends to implement institutional controls on the property, including groundwater use restrictions and vapor mitigation measures if a building is constructed on the property in the future to mitigate the potential for the groundwater to indoor air pathway to be complete. The groundwater pathway will be addressed upon execution of the UEC. Likewise, UECs restricting groundwater use will be implemented for the portion of Terminal Avenue adjacent to the Norfolk Southern property where residual COI remain, to bring the impacted portion of Terminal Avenue into compliance with VRP standards.

Institutional controls will also be implemented at the Prodigy Woodworks sub-parcel property to restrict the use of groundwater and require vapor investigation and/or mitigation prior to any future construction. The property will comply with VRP standards upon execution of the UEC. Residual impacts in bedrock groundwater are delineated to HSRA residential Type 1 RRS and do not extend more than 400 ft from the Site despite many decades (and perhaps more than a century) passing since the inception of the release. The area with bedrock groundwater impacts consists primarily of Macon-Bibb County ROWs and rail road properties. Groundwater is not currently used as a water supply for industrial or drinking water purposes in the vicinity of the Macon former MGP Site. The Macon-Bibb County Water Department provides water to the area surrounding the Site. The public water system draws water from the Ocmulgee River at a location approximately 3 miles upstream from the Site, and the river is the only source of water for the Macon system (ERM, 2014b).

As noted in the VIRP, based on a search of United Stated Geological Survey records, information obtained from the Macon-Bibb County Health Department, there are no known water supply wells within 1,000 ft of the extent of known impacts in bedrock groundwater. A windshield survey completed in February 2018 around the Site did not identify any water supply wells located between the Site and the Ocmulgee River. Of the wells identified within a mile of the site (based on United States Geological Survey records and information obtained from the Macon-Bibb County Health Department) none are located downgradient of the Site between the Site and the Ocmulgee River (groundwater discharge point). Wells located upgradient, cross-gradient, or on the other side of the Ocmulgee River (which is believed to act as a hydraulic

boundary to groundwater flow) within a mile appear to be used solely for industrial use (e.g., process water, irrigation), with no public supply or domestic use identified.

It is unlikely that a well would be installed in this isolated area in the future as public water is available, and the bedrock zone is unsuitable for water supply as it naturally provides limited groundwater yield. Further, before a private water well can be installed in Bibb County, the property owner or authorized agent must first apply for a permit with the Environmental Health Department[1] which would be unlikely to receive County or City approval. As such, there are no current groundwater receptors and the potential future use of groundwater in the area is highly unlikely.

Data provided in this VRP CSR demonstrate that use of groundwater for any purpose in the vicinity of the Site is impracticable and the Macon-Bibb County would not permit the installation of a water supply well. Therefore, there are no current or reasonably conceivable pathways for a receptor to be exposed to groundwater. In any event, evaluation of the potential for residual dissolved phase COI or DNAPL in bedrock to adversely impact a hypothetical well located 1,000 ft from the Site shows that the POE would not be impacted. Therefore, dissolved COI and DNAPL remaining in place do not pose a risk to human health or the environment, no further evaluation is warranted, and bedrock groundwater is in compliance with requirements of the VRP. As a conservative measure, however, groundwater use restrictions will be implemented through the use of UECs on the parcels shown on Figure 7-1 and as indicated on the Compliance Certification included in this VRP CSR.

In summary, comparison of groundwater monitoring data to applicable VRP standards for groundwater do not indicate any concentrations of COI above the VRP standards. Therefore, no further investigation, monitoring, or remediation for groundwater is warranted.

7.3 Indoor Air

Vapor intrusion (VI) is a constituent transport process that can occur when vapors from subsurface sources form and migrate upwards toward overlying buildings. There are no buildings present on the parcels included as VRP qualifying properties. There are only two properties where residual impacts remain in the subsurface; the Norfolk Southern property where soil is in compliance with standards protective of construction workers (Type 4 RRS) and minor residual impacts remain in saturated soil and groundwater, and the Prodigy Woodworks parcel at the corner of Mulberry Street and 6th Street. UECs will be executed for both properties requiring an assessment for VI potential, or vapor mitigation measures during construction of any enclosed structure, thus addressing the vapor pathway in the event of future construction.

VI is not a concern for residual bedrock groundwater impacts near the intersection of Walnut Street and 7th Street, as documented in the correspondence from AGLC to EPD dated March 22, 2017. As stated in that correspondence, VOCs can only partition to the vadose zone from the shallowest groundwater zone present at a given site. There is no VI pathway from bedrock groundwater impacts to a structure, as the shallow groundwater functions as a clean “cap”,

[1] http://northcentralhealthdistrict.org/bibb-county-environmental-health-department/

preventing VOC partitioning from bedrock groundwater into the vapor phase. As such, the VI pathway is not a complete pathway for current or future land use.

7.4 Surface Water Pathway

Although groundwater in the alluvial and bedrock zones eventually flows to the Ocmulgee River, as explained above, existing groundwater data indicate that dissolved phase COI in groundwater are attenuating rapidly and evaluation of the plume indicates that COI from the Site would not reach the river at any concentration. COI are not being transported to surface water through overland flow/storm water runoff. As a conservative measure, the potential for dissolved phase COI to reach the Ocmulgee River at concentrations that may adversely affect surface water quality was evaluated. The evaluation showed that even using conservative assumptions, groundwater discharge to the river will not impact surface water quality. Therefore, the Ocmulgee River, and users of this resource, are not identified as receptors for site-related COI.

7.5 Covenants and Controls

UECs have been prepared in accordance with Georgia Rule 391-3-19-08(7), to prohibit activities that may substantially interfere with engineering controls (i.e., the ISS mass) in place on any property. UECs prohibiting activities that would result in exposure to residential individuals to soils beneath the upper 2 feet of soil that would result in exposure to regulated substances above applicable RRS or to allow for unacceptable risks of vapor intrusion will be executed for properties where ISS was completed in 2002, 2009 and 2015 to avoid interference with the control. As noted previously, UECs restricting groundwater use will be executed as proposed in Figure 7-1. Requirements for assessment of the potential for VI at a future structure on the Norfolk Southern property and the Prodigy Woodworks property will be included in the covenants.

A copy of the draft UECs for each parcel was submitted to EPD for approval prior to the submittal of this VRP CSR, and are also included as Appendix L. Comments have not been received from EPD as of the submittal date of this document.

8.0 SUMMARY AND CONCLUSIONS

Activities completed at the Macon former MGP Site since submittal of the 2000 CSR and the 2004 CSR to EPD have served to supplement the data collected since 1986 and confirm the understanding of Site conditions. The fundamental conclusions that are derived from these activities consist of the following:

- The impacts above background concentrations and/or HSRA-calculated Type 1 (residential) RRS in soil and groundwater at the Site have been delineated horizontally and vertically. Sediments in the Upper and Lower Outfalls of the Ocmulgee River have been delineated horizontally and vertically in compliance with sediment removal and clean-up goals in accordance with the standards established per the approved Corrective Action Plan for Sediments in the Ocmulgee River dated January 5, 2001.
- As a result of soil removal and ISS activities in 2002, 2009 and 2015, soils on all affected parcels, ROWs, railroad parcels, and CCP are in compliance with applicable cleanup standards for soil based on HSRA RRS. Certification pages are included in this report for parcels previously certified in the 2004 CSR (Appendix A), and for parcels where corrective actions were implemented in 2015 in accordance with the VIRP and as documented in the 2016 CACR.
- Sediment remediation was completed in 2002. The sediments in the Ocmulgee River are in compliance with sediment removal and clean-up goals in accordance with the standards established per the approved Corrective Action Plan for Sediments in the Ocmulgee River dated January 5, 2001, as documented in previous reports and correspondence (Appendix A). Testing of surface water collected from the Ocmulgee River indicates that the surface water has not been impacted by former MGP operations.
- Groundwater at the Site is in compliance with either HSRA Type 1 RRS or VRP standards and groundwater use restrictions for certain parcels will be implemented through use of environmental covenants.
    - the residual dissolved phase plume in alluvial groundwater is stable as evidenced by:
        - data from nearly twenty years of groundwater monitoring demonstrates that natural attenuation is occurring resulting in a degradation of COI;
        - the effectiveness of corrective actions of source materials including soil excavation and ISS in 2002, 2009 and 2015 has resulted in reduction of COI concentrations and the extent of the plume;
        - detected concentrations of COI are isolated to a small area west of Terminal Avenue within the Macon-Bibb County ROW and on Norfolk Southern active rail line property; and
        - with the exception of the area noted in the previous bullet, alluvial groundwater concentration are below residential HSRA RRS rendering the exposure pathway for alluvial groundwater incomplete for the vast majority of the Site.
    - the residual impacts in bedrock groundwater are stable as evidenced by:

    - the extent is known, delineated and has not migrated in approximately twenty years of continuous monitoring;
    - as demonstrated by two decades of data, DNAPL and dissolved phase COI are stable and not migrating, a condition that is expected to continue based on corrective actions performed to remove source areas, natural attenuation, physical properties of DNAPL, and bedrock hydrogeological studies which have shown no potential for mobility, and
    - further, the bedrock hydrogeological setting (fracture size and type and bedrock competency) provides an impediment to the movement of impacts in groundwater and therefore does not present a risk to any potential receptors.
- The existing groundwater monitoring network is robust, and the period of post-corrective action groundwater monitoring has demonstrated that groundwater flow at the Site is consistent in terms of flow direction and gradient.

Based on the conclusions of this VRP CSR and parcel certifications for all qualifying parcels, AGLC and GPC request EPD's concurrence, and requests that the Site be delisted from the HSI upon the execution and recording of UECs for relevant portions of the Site. The proposed UECs for the affected parcels are included in Appendix L.

9.0 REFERENCES

AECOM, 2008. Remedial Action Completion Report for Bedrock Groundwater. Prepared by AECOM Inc., December 2008.

AECOM, 2010. Remedial Action Completion Report for the Area Downgradient of the In-Situ Solidification Mass. Prepared by AECOM Inc., April 2010.

Clark, W.Z., and A.C. Zisa, 1976. Physiographic map of Georgia: Georgia Geological Survey SM-4, reprinted 1988, scale 1:2,000,000.

Couch, C.A. E.H. Hopkins and P.S. Hardy, 1996. Influences of Environmental Settings on Aquatic Ecosystems in the Apalachicola-Chattahoochee-Flint River Basin. USGS Water-Resources Investigations Report: 95-4278.

ECM, 2009. Supplemental Site Characterization - MW-09 Area, Former Manufactured Gas Plant, Macon, Georgia, HSI No. 10511. Prepared by Environmental Cost Management, October 2009.

ECM, 2011. Focused Feasibility Study – Western Portion and MW-101 Area – Former Manufactured Gas Plant, Macon, Georgia, HSI No. 10511. Prepared by Environmental Cost Management, April 2011.

ENSR, 2008. Focused Feasibility Study for Alluvium in the Area Downgradient of the ISS Mass. Prepared by ENSR Corporation, August 2008.

ERM, 2011. Data Gap Investigation Report. Prepared by Environmental Resources Management, April 2011.

ERM, 2014a. Western Portion and MW-101 Area Groundwater Corrective Action Plan Addendum. Prepared by Environmental Resources Management, February 2014.

ERM, 2014b. Voluntary Investigation and Remediation Plan. Prepared by Environmental Resources Management, October 2014.

ERM, 2016a. Corrective Action Completion Report for Remediation of the Former Manufactured Gas Plant Site – Western Portion. Prepared by Environmental Resources Management, May 2016 (Appendix A of the VRP 2nd Semiannual Progress Report).

ERM, 2016b. VRP 2nd Progress Report. Prepared by Environmental Resources Management, May 2016.

ERM, 2016c. VRP 3rd Progress Report. Prepared by Environmental Resources Management, November 2016.

Husted, John E. et. al., 1978. Optimum Water Management in Kaolin Mining for Aluminum Production. Georgia Institute of Technology, Atlanta, Georgia. Prepared for OWRT/U.S. Department of Interior. November 1978.

LAW, 1991a. Preliminary Assessment, Former Manufactured Gas Plant Site Macon, Georgia. Prepared by LAW Environmental, Inc., December 1991.

LAW, 1991b. Site Investigation, Former Manufactured Gas Plant Site Macon, Georgia. Prepared by LAW Environmental, Inc., December 1991.

LAW, 1992. Site Inspection, Former Manufactured Gas Plant Site, Macon, Georgia. Prepared by LAW Environmental, Inc., 1992.

Legrand, H. E. 1962. Geology and Groundwater Hydrology of the Atlantic and Gulf Coastal Plain as Related to Disposal of Radioactive Wastes. United States Department of the Interior Geological Survey. January 1962.

Pavich, M.J. 1996. Appalachian piedmont regolith: Relations of saprolite and residual soils to rock-type. Geotechnical Special Publication. Issue 63. http://pubs.er.usgs.gov/publication/700177.

RETEC, 2002a. Sediment Remediation Closure Report, Upper and Lower Outfall – Ocmulgee River. Prepared by The RETEC Group, Inc., March 2002.

RETEC, 2002b. Soil Remediation Closure Report for OU2 and OU4. Prepared by The RETEC Group, Inc., December 2002.

RETEC, 2004a. Compliance Status Report. Prepared by The RETEC Group, Inc., January 2004; revised March 2004.

RETEC, 2004b. Scour Protection Placement Completion Report, Upper and Lower Outfall – Ocmulgee River. Prepared by The RETEC Group, Inc., July 2004.

RETEC, 2004c. Basis of Design Work Plan for Bedrock Groundwater. Prepared by The RETEC Group Inc., February 2004, revised April 20, 2004 and June 30, 2004.

RETEC, 2004d. Bedrock Characterization Work Plan, Prepared by The RETEC Group Inc., December 2004.

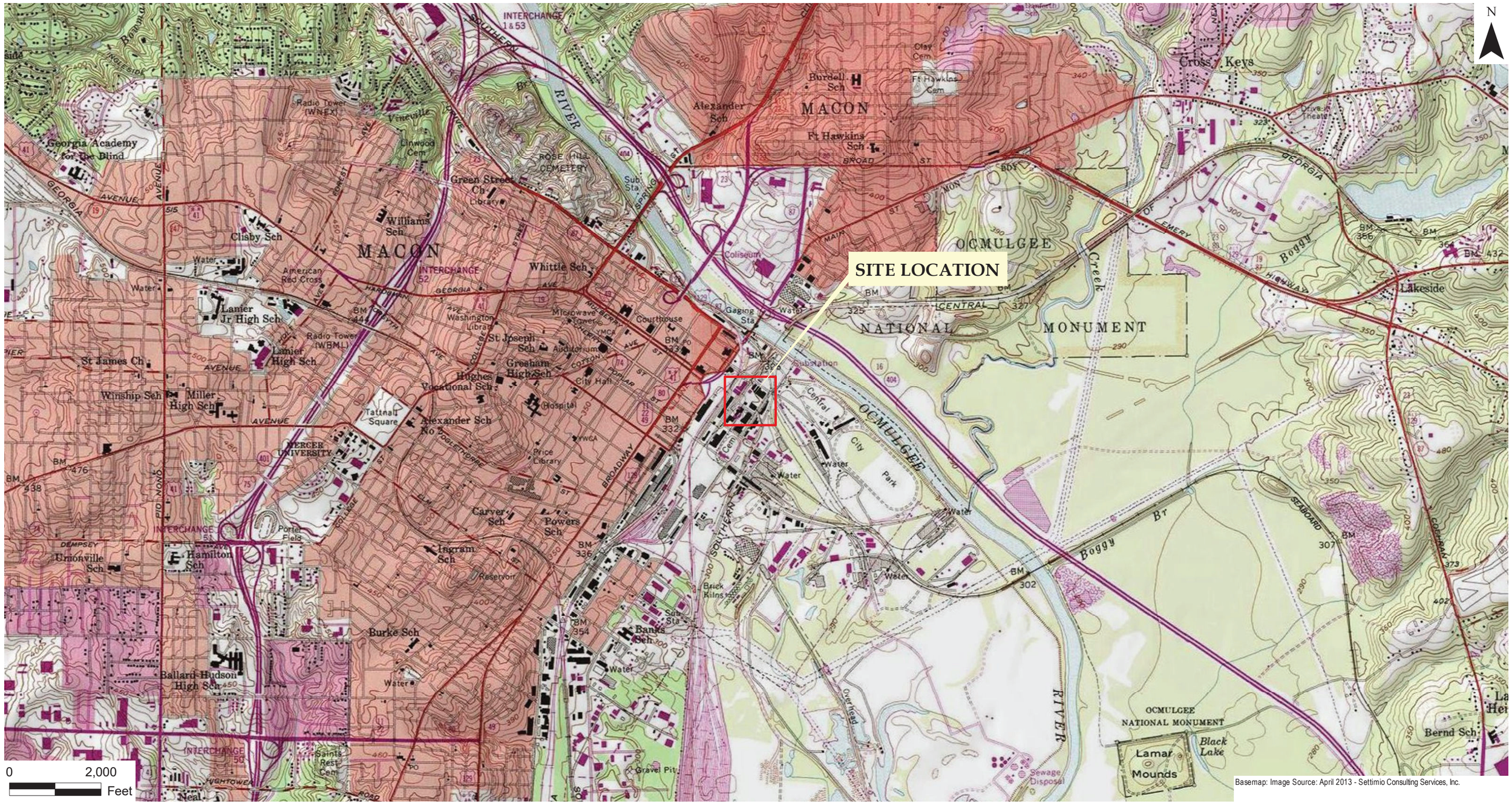
RETEC, 2004e. Pilot Test Work Plan for MW-09 Area. Prepared by The RETEC Group Inc., December 2004.

RETEC, 2006. Groundwater Corrective Action Plan Addendum. Prepared by The RETEC Group, Inc., June 2005; revised April 2006.

ThermoRetec, 2001. Macon Site Soil and Groundwater Corrective Action Plan. Prepared by ThermoRetec Consulting Corporation, October 2000, revised December 2000, February 6, 2001, and December 2001.

Williams, 1998. Environmental Assessment Report. Prepared by Williams Environmental Services, Inc., March 1998.

Williams, 2000. Compliance Status Investigation Report. Prepared by Williams Environmental Services, Inc., March 2000.1991a



Basemap: Image Source: April 2013 - Settimio Consulting Services, Inc.

ERM

Environmental Resources Management

DESIGN:	H Sartain	DRAWN:	M Gearman	CHKD.:	A Reimer
DATE:	2/19/2018	SCALE:	AS SHOWN	REVISION:	0

FILE: 0366660 AGL Resources Macon GW Pathforward.AR\05 - ERM Outputs\Figures\AGL_Macon\MXD\2017-04 4thVRPRptFig01_Topo.mxd

CONTOUR INTERVAL 10 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

GEORGIA

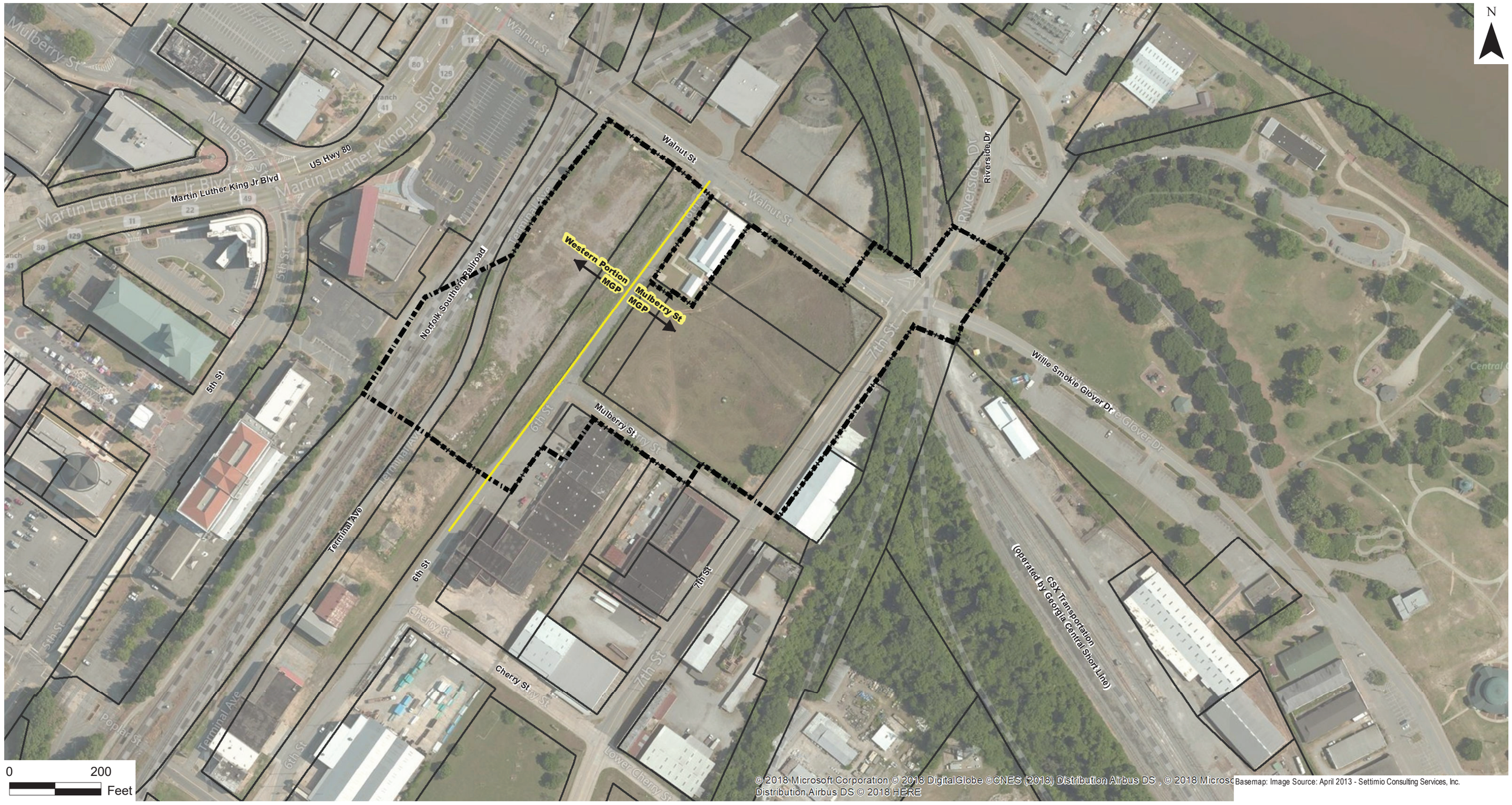
QUADRANGLE LOCATION

FIGURE 1-1 - TOPOGRAPHIC SITE LOCATION MAP

Atlanta Gas Light Company

Former Manufactured Gas Plant

Macon, Bibb County, Georgia



ERM

Environmental Resources Management

DESIGN:	H Sartain	DRAWN:	M Gearman	CHKD.:	A Reimer
DATE:	2/22/2018	SCALE:	AS SHOWN	REVISION:	0

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Property Line

VRP Applicant & Qualifying Properties Boundary

MGP = Manufactured Gas Plant

FIGURE 1-2 - Aerial Photograph of Site and Vicinity

Atlanta Gas Light Company

Former Manufactured Gas Plant

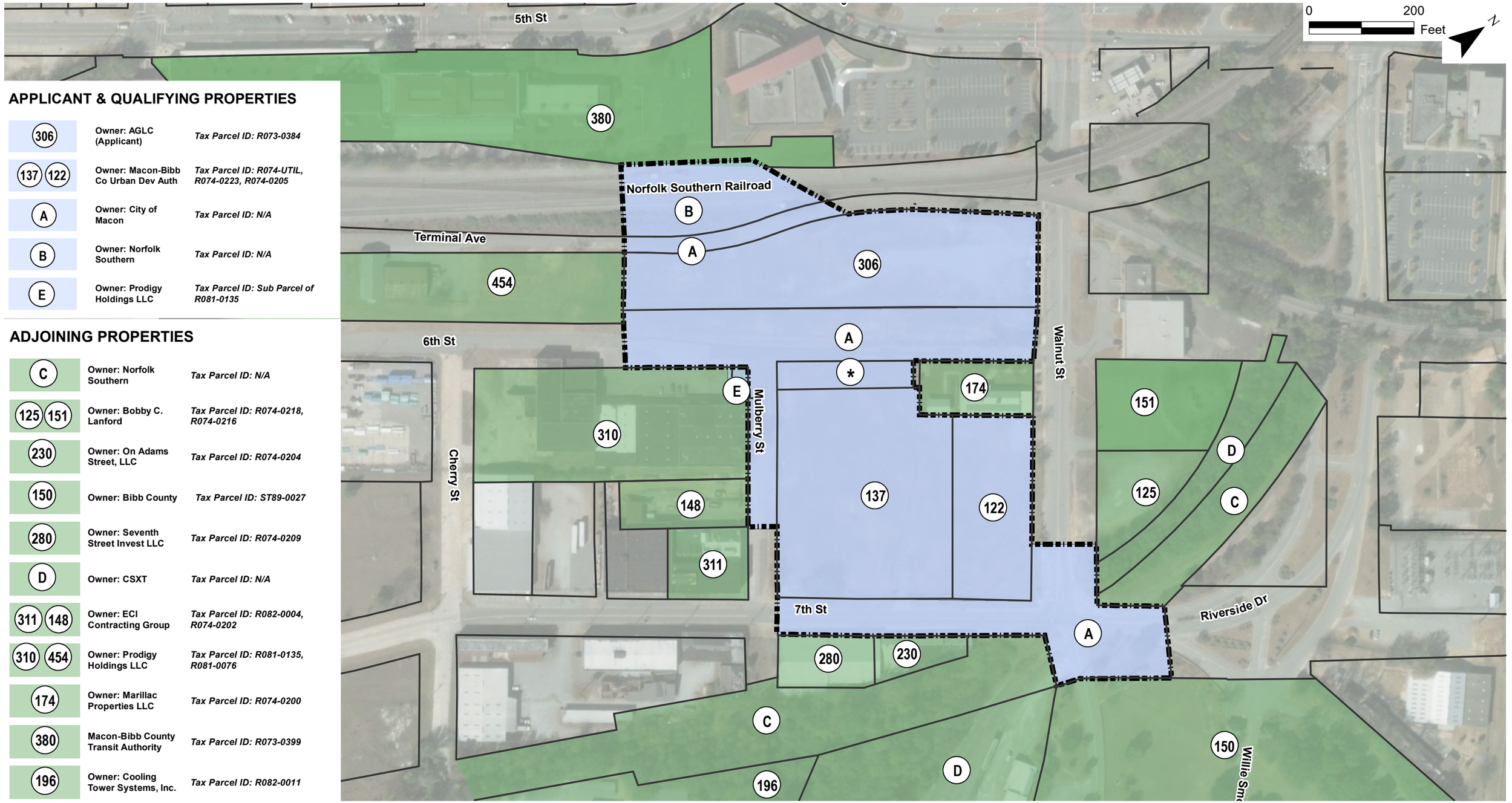
Macon, Bibb County, Georgia

APPLICANT & QUALIFYING PROPERTIES

306	Owner: AGLC (Applicant)	*Tax Parcel ID: R073-0384*
137 122	Owner: Macon-Bibb Co Urban Dev Auth	*Tax Parcel ID: R074-UTIL, R074-0223, R074-0205*
A	Owner: City of Macon	*Tax Parcel ID: N/A*
B	Owner: Norfolk Southern	*Tax Parcel ID: N/A*
E	Owner: Prodigy Holdings LLC	*Tax Parcel ID: Sub Parcel of R081-0135*

ADJOINING PROPERTIES

C	Owner: Norfolk Southern	*Tax Parcel ID: N/A*
125 151	Owner: Bobby C. Lanford	*Tax Parcel ID: R074-0218, R074-0216*
230	Owner: On Adams Street, LLC	*Tax Parcel ID: R074-0204*
150	Owner: Bibb County	*Tax Parcel ID: ST89-0027*
280	Owner: Seventh Street Invest LLC	*Tax Parcel ID: R074-0209*
D	Owner: CSXT	*Tax Parcel ID: N/A*
311 148	Owner: ECI Contracting Group	*Tax Parcel ID: R082-0004, R074-0202*
310 454	Owner: Prodigy Holdings LLC	*Tax Parcel ID: R081-0135, R081-0076*
174	Owner: Marillac Properties LLC	*Tax Parcel ID: R074-0200*
380	Macon-Bibb County Transit Authority	*Tax Parcel ID: R073-0399*
196	Owner: Cooling Tower Systems, Inc.	*Tax Parcel ID: R082-0011*



Environmental Resources Management

DESIGN:	H Sartain	DRAWN:	M Gearman	CHKD.:	A Reimer
DATE:	8/27/2018	SCALE:	AS SHOWN	REVISION:	0

FILE: 0366660 AGL Resources Macon GW Pathforward AR\05 - ERM Outputs\Figures\AGL_Macon\MXD\2017 04 4th\VRPPrgRpt\Fig 1-3 PropOwn.mxd

280 Address Number (per Macon-Bibb County Tax Assessors GIS)

* Unnumbered Parcel (per Macon-Bibb County Tax Assessors GIS)

Property Line

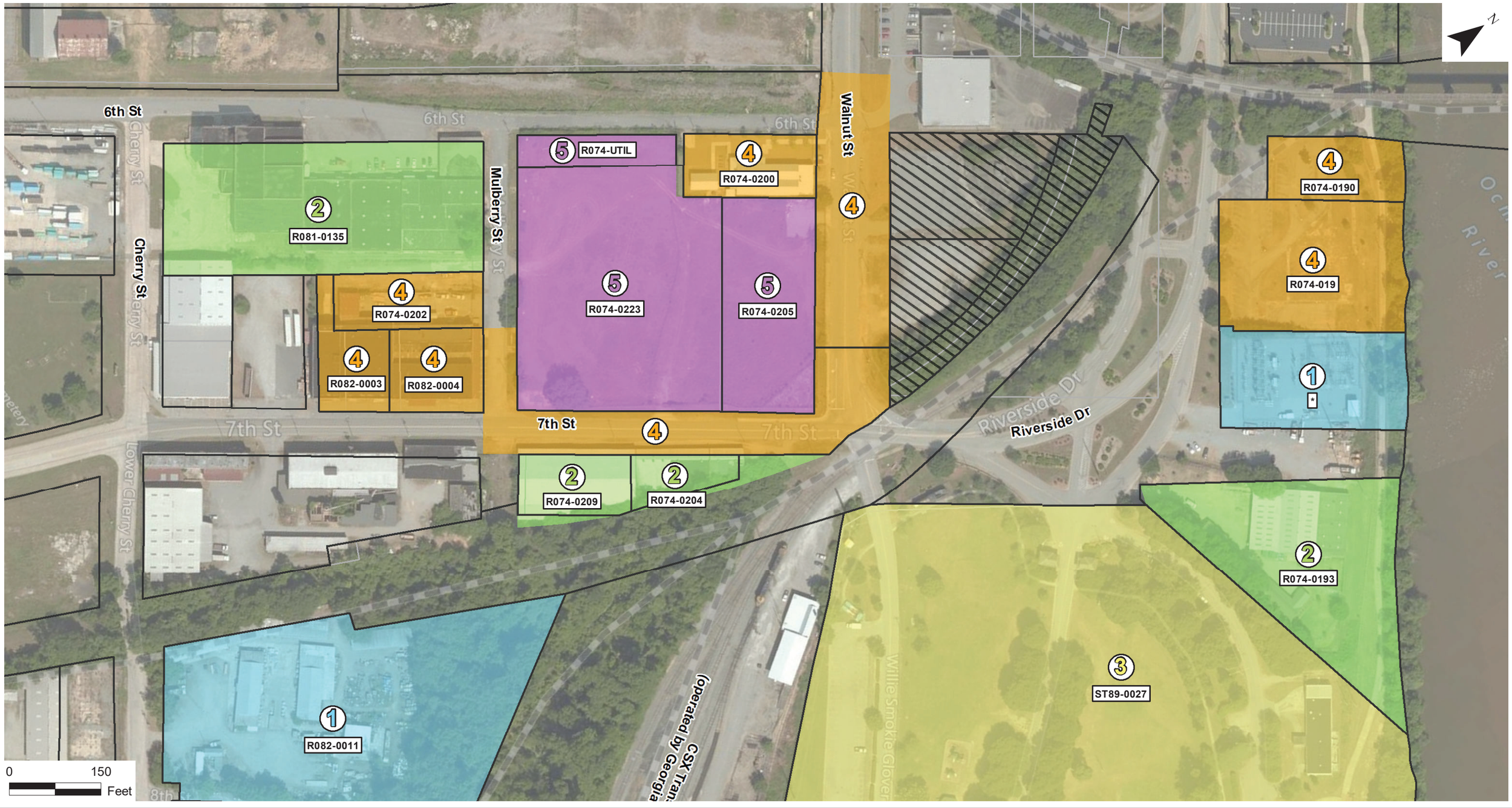
VRP Applicant & Qualifying Properties Boundary

FIGURE 1-3 - PROPERTY OWNERSHIP MAP

Atlanta Gas Light Company

Former Manufactured Gas Plant

Macon, Bibb County, Georgia



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DATE:	4/19/2018	SCALE:	AS SHOWN	REVISION:	0

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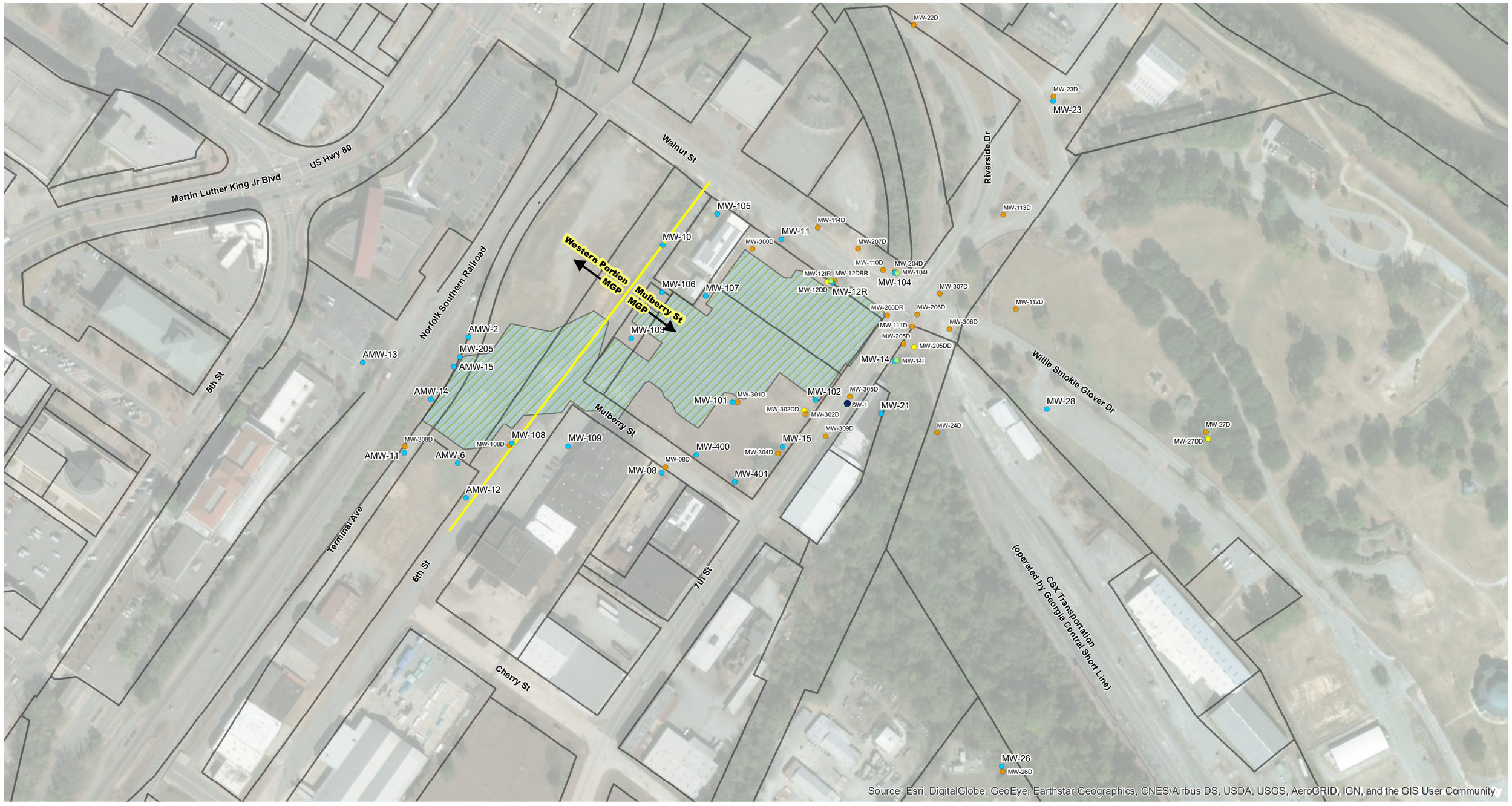
- Property Line
- ① Type 1 RRS
- ② Type 2 RRS
- ③ Type 3 RRS
- ④ Type 4 RRS
- ⑤ Type 5 RRS
- Soil Impact Not Associated with MGP Impacts
- R074-0190 Tax Parcel ID
- * Unnumbered Parcel (per Macon-Bibb County Tax Assessors GIS)

FIGURE 1-4 - 2004 CSR PARCEL SOIL CERTIFICATIONS

Atlanta Gas Light Company

Former Manufactured Gas Plant

Macon, Bibb County, Georgia



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DATE:	6/22/2018	SCALE:	AS SHOWN	REVISION:	0

FILE: 0366660 AGL Resources Macon GW Pathforward.AR\05 - ERM Outputs\Figures\AGL_Macon\MXD\2017 04 4th\RPPrgRpt\Fig 1-5_Site&Wells.mxd

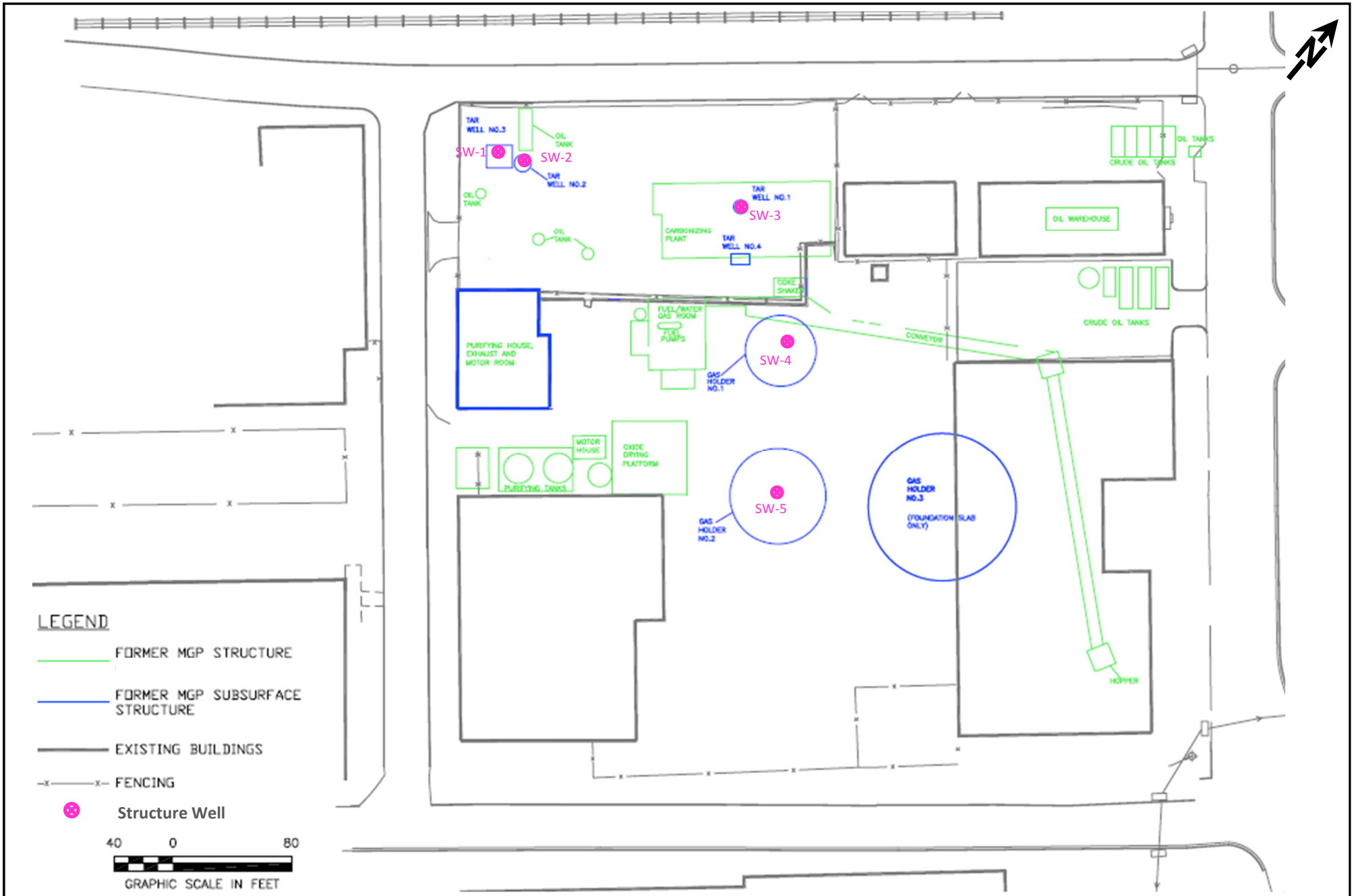
- Shallow Well
- Intermediate Well
- Sump Well (Installed as part of DNAPL investigation)
- Shallow Bedrock Well
- Deep Bedrock Well
- Property Line
- ISS Mass

N

0 200 Feet

FIGURE 2-1
SITE LAYOUT & GROUNDWATER MONITORING WELL NETWORK

Atlanta Gas Light Company
Former Manufactured Gas Plant
Macon, Bibb County, Georgia

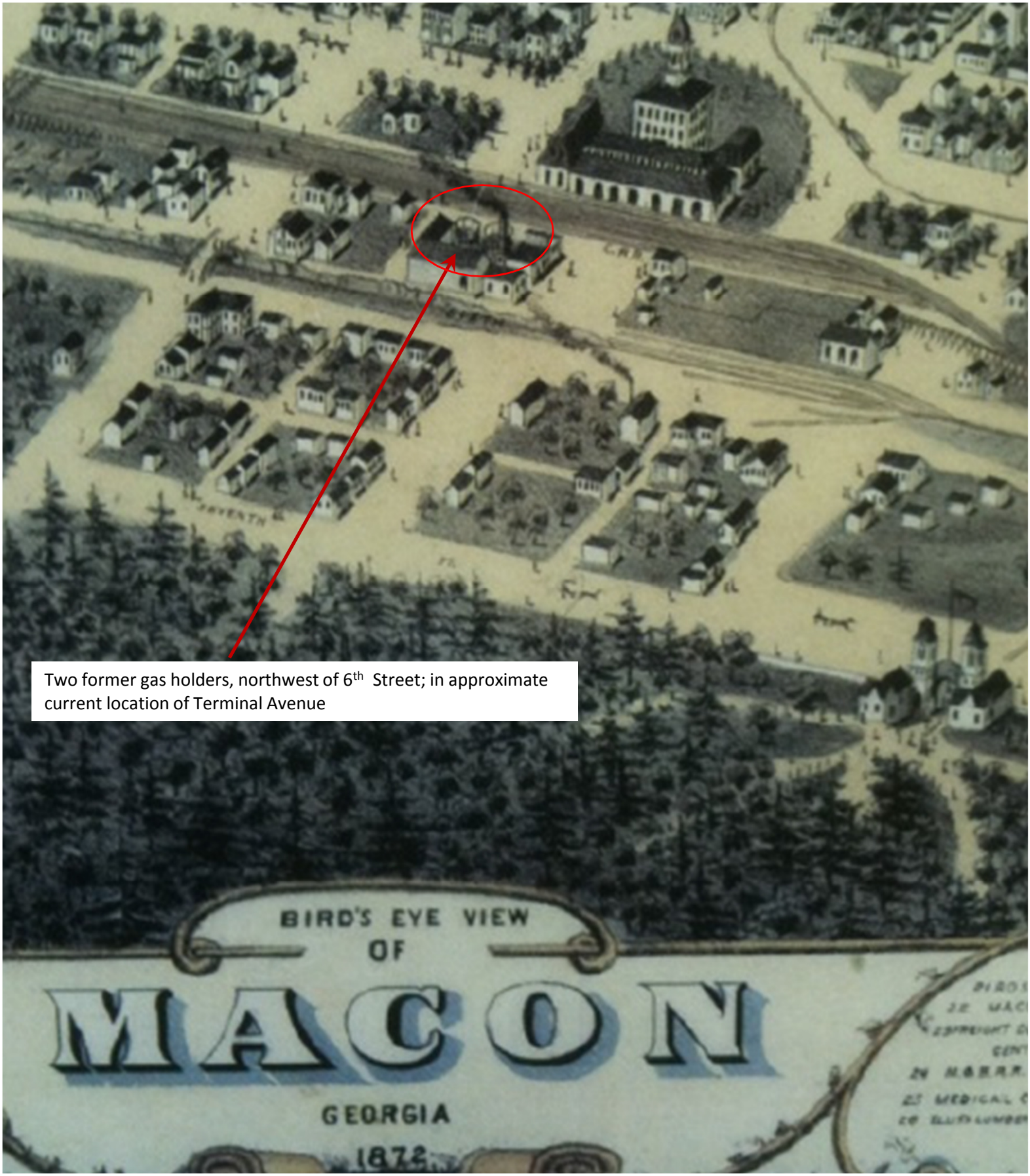


From: Soil and Groundwater CAP (RETEC, 2001)

Environmental Resources Management

Figure 2-2
Location of Former MGP Structures (Pre-Excavation and ISS)
Mulberry Street MGP

ATLANTA GAS LIGHT COMPANY
Former Manufactured Gas Plant
Macon, Bibb County, Georgia



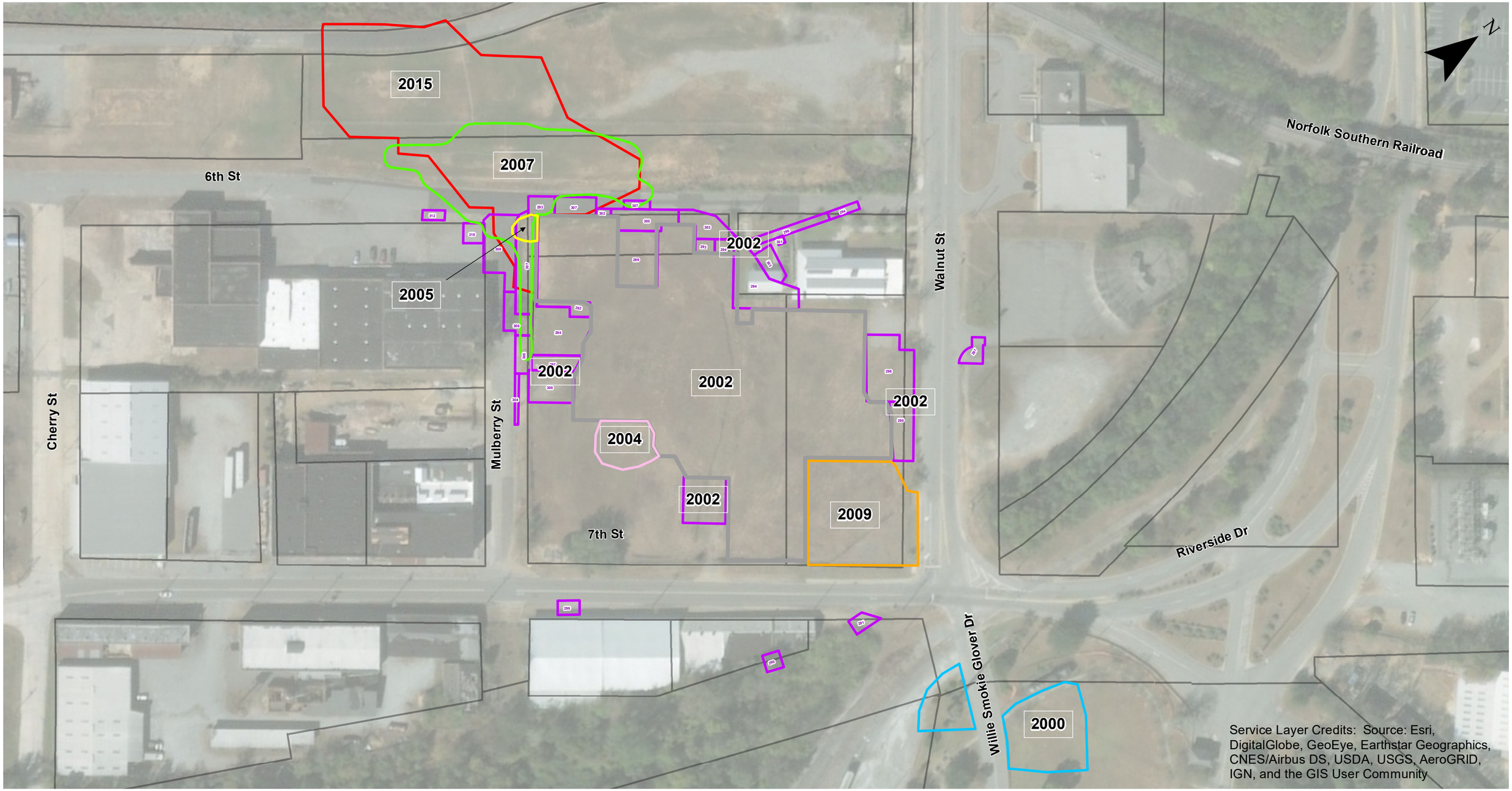
From: MW-09 Area Supplemental Site Characterization Report, ECM, 2009

Environmental Resources Management

Figure 2-3

1872 Artist Rendering- Former MGP Structures (Pre-Excavation and ISS)
Western Portion MGP

ATLANTA GAS LIGHT COMPANY
Former Manufactured Gas Plant
Macon, Bibb County, Georgia



Environmental Resources Management

DESIGN:	NWT	DRAWN:	SPV/LCR	CHKD.:	NGV
DATE:	6/22/2018	PN#:	0176740	REVISION:	1
FILE:	P:\Projects\0366660 AGL Resources Macon GW Pathforward.AR\11_AGLMaconGIS\MXD\Cristian Edits 06082018\Fig 2-3 AGLMcnRemed.mxd				

FIGURE 3-1
PREVIOUS CORRECTIVE ACTIONS
Atlanta Gas Light Company
Former Manufactured Gas Plant
Macon, Bibb County, Georgia

- ISS Area - 2002
- ISS Area - 2015
- ISS Area - 2009
- Estimated Excavation Area - 2000
- Excavation Area - 2002
- MW-101 Area ISOC® Pilot Test - 2004 thru 2005
- MW-09 Area ISOC® Pilot Test - 2005
- Extent of ISCO - 2007
- Property Line

ERM

IMAGE SOURCE: APRIL 2013 - SETTIMIO CONSULTING SERVICES, INC.

Environmental Resources Management

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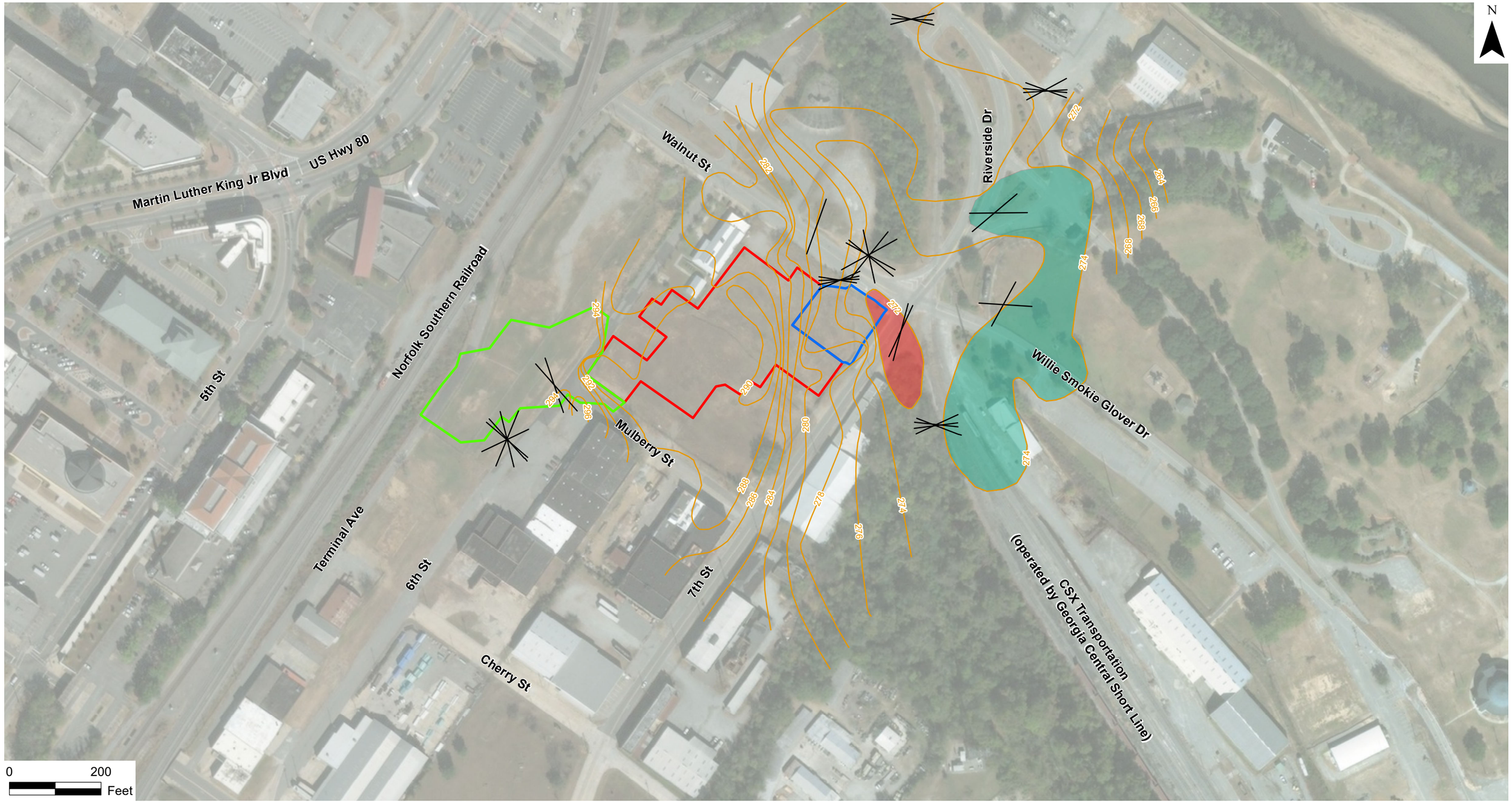
DATE: 5/14/2013	PN#: 0176740	REVISION: 2

FILE: S:\AGL\GIS\2013\2013 05-May ENV DUE DILGNCE\AGL MACON F2.mxd

FIGURE 3-2
SOIL BORING LOCATIONS AT FORMER
MACON IRON AND PAPER COMPANY PROPERTY
Atlanta Gas Light Company
Former Manufactured Gas Plant
Macon, Bibb County, Georgia

⊗ Soil Boring

ERM



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FILE: P:\Projects\0366660 AGL Resources Macon GW Pathforward.AR\11_AGLMaconGIS\MXD\Cristian Edits 06082018\Fig 3-1_SapSrfcAppxFracOrient.mxd

- Bedrock Fracture Orientation
- Saprolite Surface Contour
- Bedrock High
- Bedrock Low

In Situ Solidification (ISS) Mass

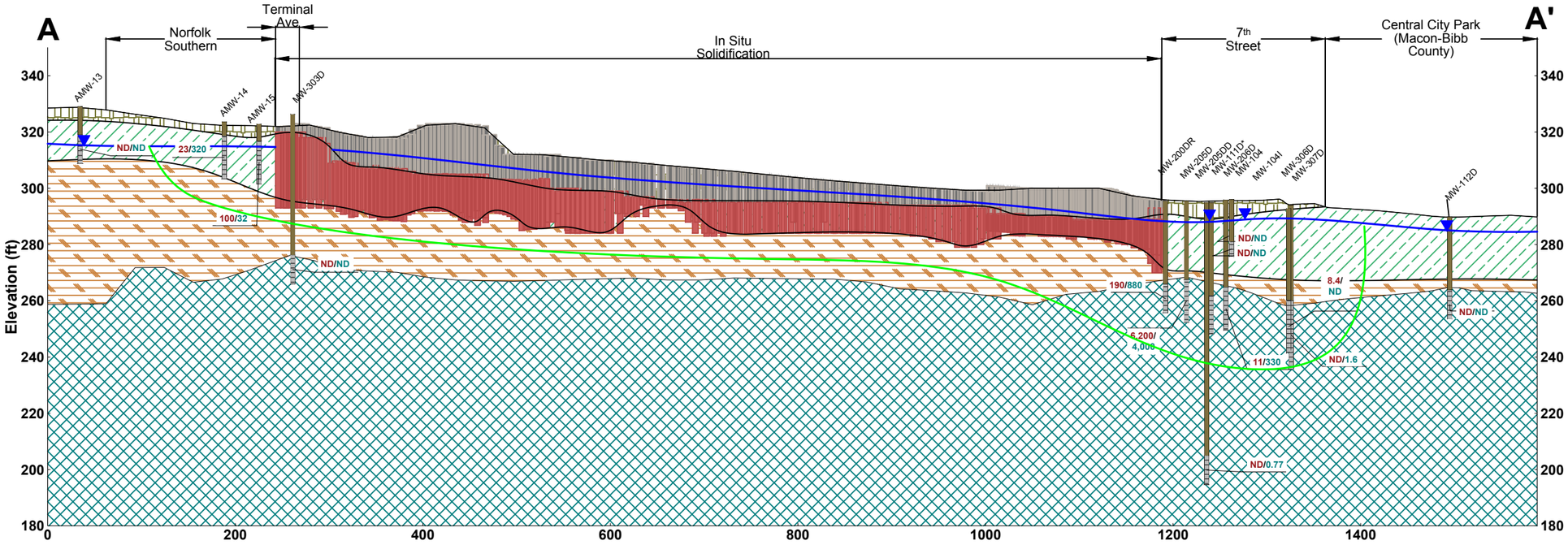
- 2002
- 2009
- 2015

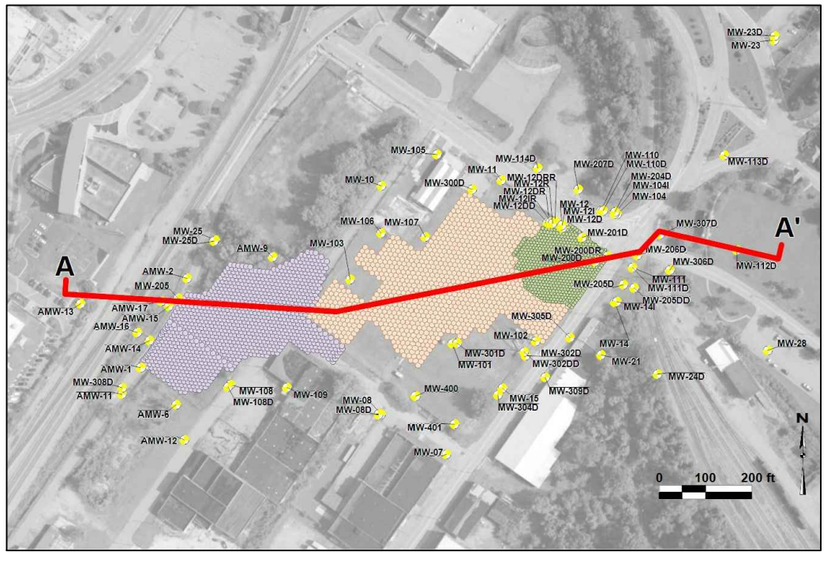
FIGURE 3-3 - SAPROLITE SURFACE CONTOURS & APPROXIMATE FRACTURE ORIENTATIONS

Atlanta Gas Light Company

Former Manufactured Gas Plant

Macon, Bibb County, Georgia





Notes:
*** DNAPL Observed in MW-111D**
(2006 - 2018)

ISS = In situ Solidification

ug/L = micrograms per liter

COI = Constituents of Interest (Benzene, Naphthalene)

ft = feet

ND = Non-Detect at Lab reporting limit

Most recent analytical result for each well included (February 2018)

Laboratory Reporting Limits:
Benzene = 5.0 ug/L
Naphthalene = 0.50 ug/L

Type I RRS = Default, Residential Risk Reduction Standard

Lithology
- Fill
- Alluvium
- Saprolite
- Bedrock

ISS Completion
- Clean Backfill
- ISS Mass

Well Casing
Screened or Open Corehole Interval

Groundwater Level (ft)

Benzene Concentration (ug/L)

Naphthalene Concentration (ug/L)

Delineation of Site COI to Type I RRS

Figure 3-4
Cross Section A-A'

Atlanta Gas Light Company

Former Manufactured Gas Plant
Macon, Bibb County
Georgia

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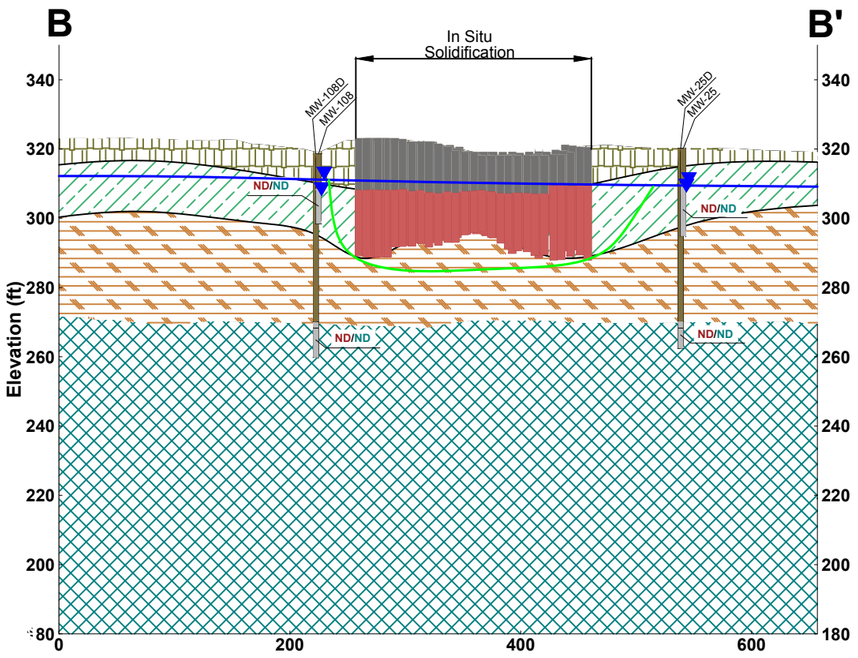
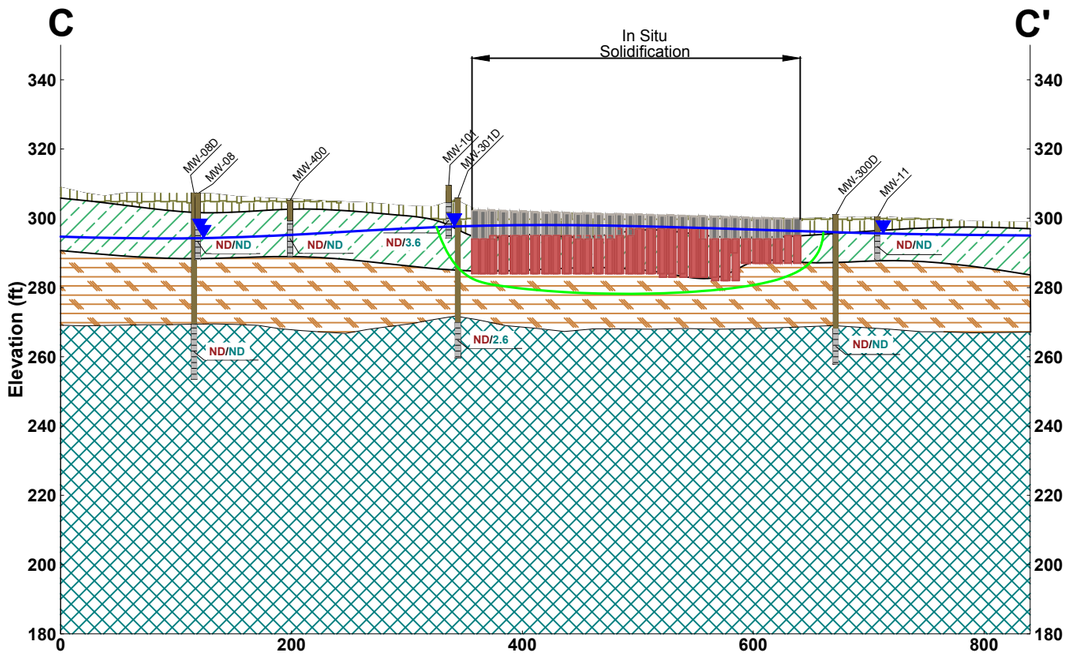
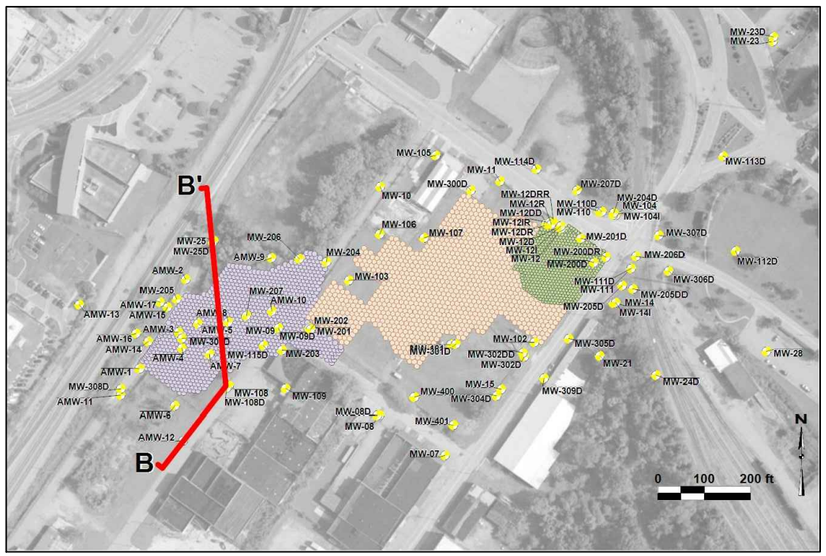
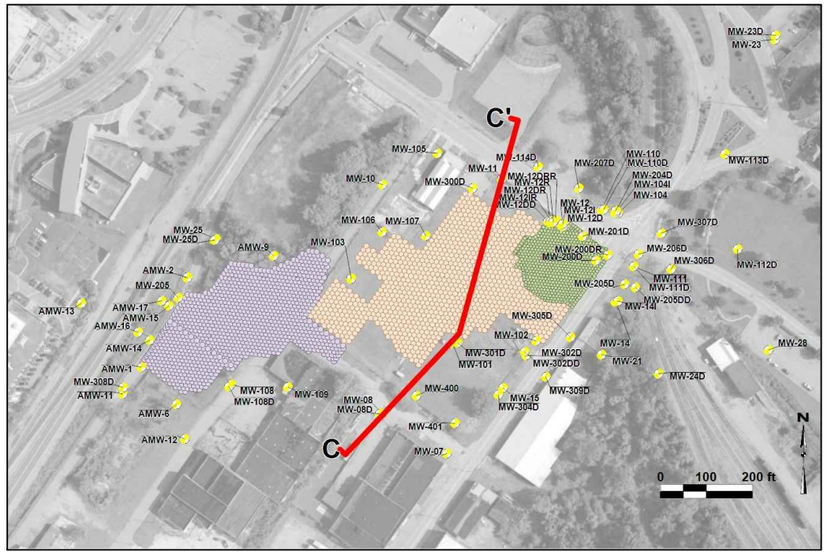
06/22/2018









Lithology

- Fill
- Alluvium
- Saprolite
- Bedrock

ISS Completion

- Clean Backfill
- ISS Mass

- Well Casing
- Screened or Open Corehole Interval
- Groundwater Level (ft)
- Benzene Concentration (ug/L)
- Naphthalene Concentration (ug/L)
- Delineation of Site COI to Type I RRS

ISS = In situ Solidification
ug/L = micrograms per liter
COI = Constituents of Interest (Benzene, Naphthalene)
ft = feet
ND = Non-Detect at Lab reporting limit

Most recent analytical result for each well included (February 2018, except MW-25, April 2015 and MW-25D, August 2015)

Laboratory Reporting Limits:
Benzene = 5.0 ug/L
Naphthalene = 0.50 ug/L

Type I RRS = Default, Residential Risk Reduction Standard

Figure 3-5
Cross Section B-B' and C-C'

Atlanta Gas Light Company

Former Manufactured Gas Plant
Macon, Bibb County
Georgia

ERM

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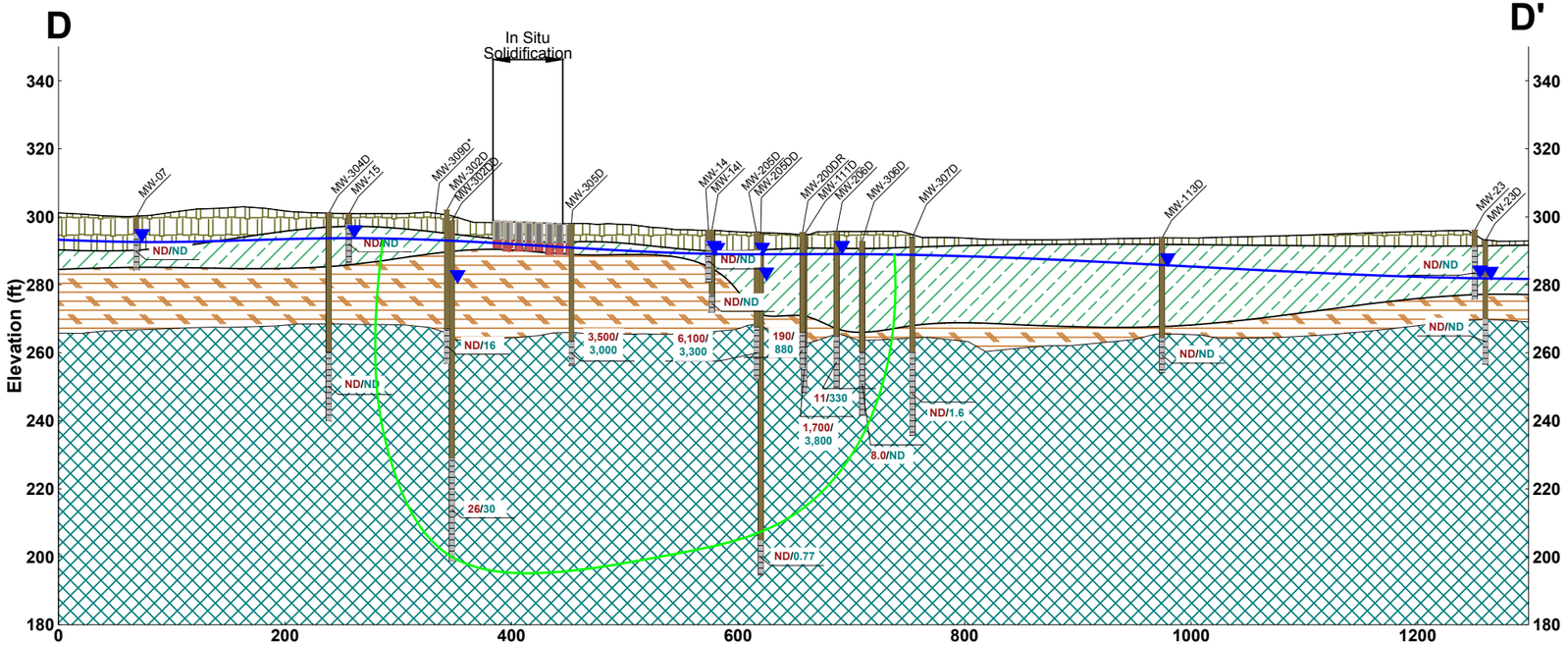
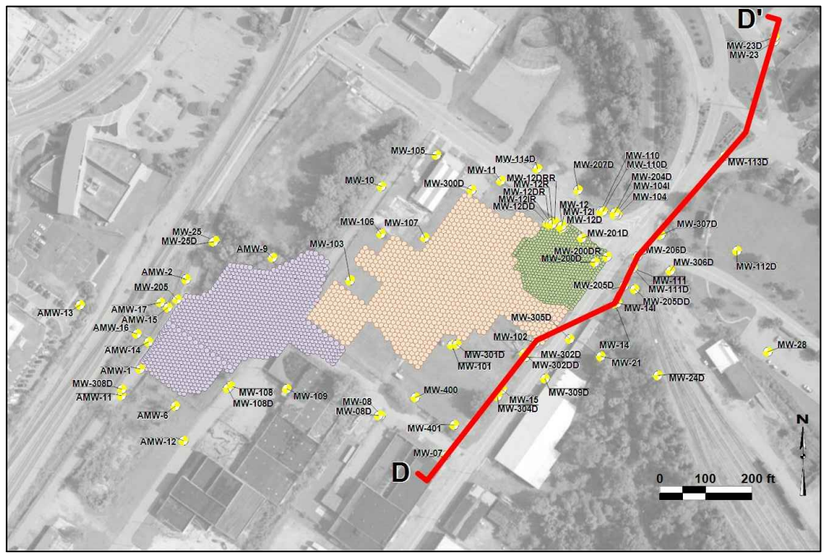
06/22/2018





Notes:
*** DNAPL Observed in MW-309D after installation in July 2015**

ISS = In situ Solidification

ug/L = micrograms per liter

COI = Constituents of Interest (Benzene, Naphthalene)

ft = feet

ND = Non-Detect at Lab reporting limit

Most recent analytical result for each well included (February 2018)

Laboratory Reporting Limits:
Benzene = 5.0 ug/L
Naphthalene = 0.50 ug/L

Type I RRS = Default, Residential Risk Reduction Standard

Lithology
- Fill
- Alluvium
- Saprolite
- Bedrock

ISS Completion
- Clean Backfill
- ISS Mass

- Well Casing
- Screened or Open Corehole Interval
- Groundwater Level (ft)

Benzene Concentration (ug/L)

Naphthalene Concentration (ug/L)

Delineation of Site COI to Type I RRS

Figure 3-6
Cross Section D-D'

Atlanta Gas Light Company

Former Manufactured Gas Plant
Macon, Bibb County
Georgia

ERM

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06/22/2018

N

MW-105
296.97

MW-10
297.45

MW-11
295.61

Walnut St

MW-104
289.97

MW-104I
289.27

MW-12IR
289.10

MW-12R
293.00

MW-106
297.53

MW-107
297.38

MW-103
297.72

AMW-2
313.25

MW-205
314.25

AMW-15
315.04

AMW-13
315.05

Norfolk Southern Railroad

AMW-14
316.15

MW-14
289.07

MW-14I
288.52

MW-101
296.70

MW-102
293.35

MW-21
289.88

MW-28
286.41

Willie Smokie Glover Dr

MW-108
311.11

MW-109
306.45

MW-400
294.26

MW-15
293.72

AMW-11
315.43

AMW-6
314.40

MW-08
294.27

MW-401
293.88

AMW-12
312.14

Terminal Ave

6th St

7th St

Cherry St

CSX Transportation
(operated by Georgia Central Short Line)

316 314 312 310 308 306 304 302 300 298 296 294 292 290 288

0 150 Feet

Basemap: Image Source: April 2013 - Settimio Consulting Services, Inc.

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Environmental Resources Management

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DATE:	6/26/2018	SCALE:	AS SHOWN	REVISION:	0

FILE: 0366660 AGL Resources Macon GW Pathforward.ARI\05 - ERM Outputs\Figures\AGL_Macon\MXD\2017 04 4th\RPPrgRpt\Fig 3-2 GWAlluv.mxd

- Shallow Well
- Intermediate Well
- Groundwater Elevation Contour (FT AMSL)
- Inferred Groundwater Elevation Contour (FT AMSL)
- Groundwater Flow Direction
- Property Line
- ISS Mass

NOTES:

288.52 = Groundwater Elevation (ft AMSL)

FT AMSL = Feet Above Mean Sea Level

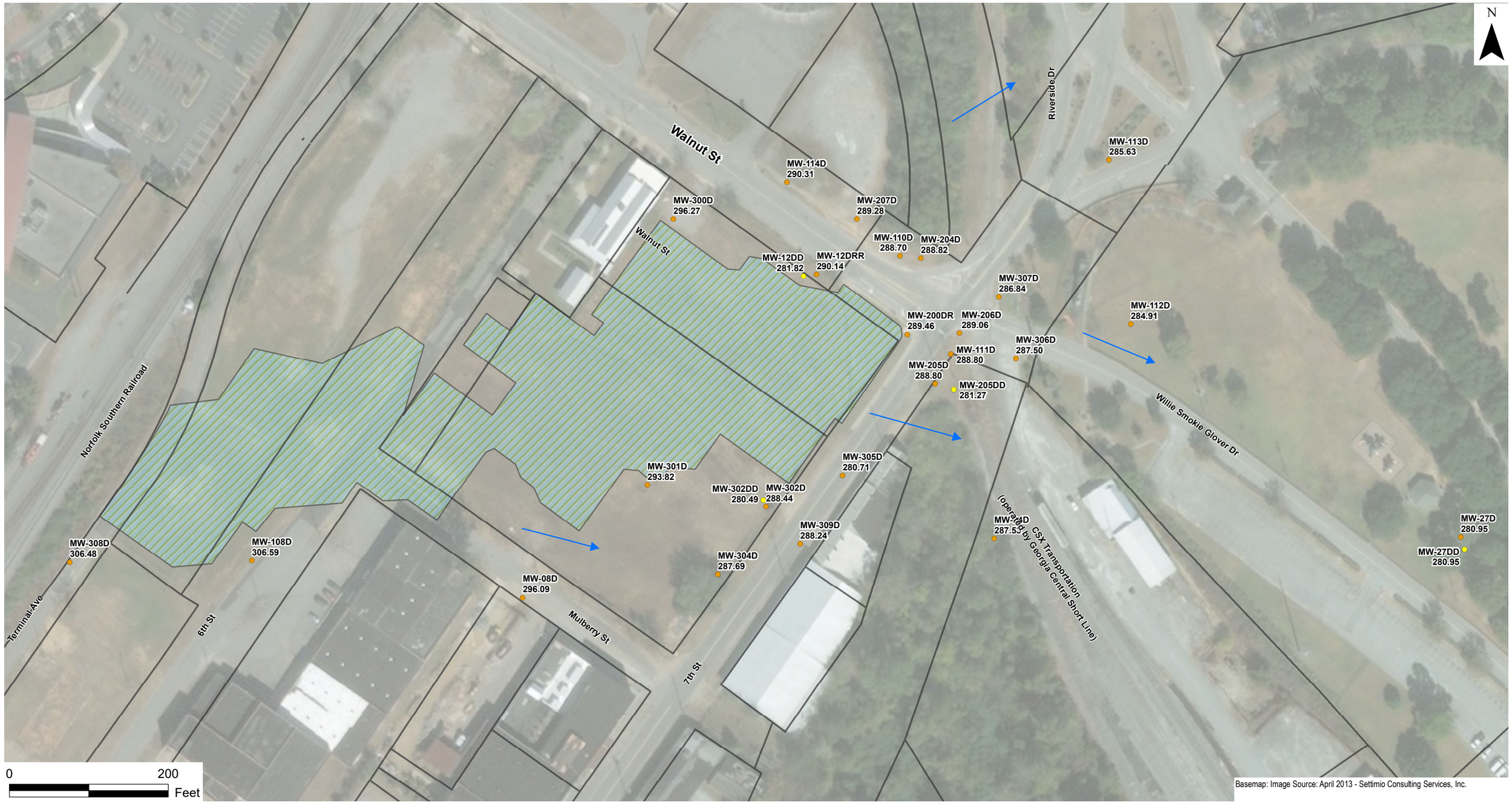
Intermediate wells MW-14I and MW-12IR not used in contouring.

FIGURE 3-7 - ALLUVIAL GROUNDWATER ELEVATION MAP - FEBRUARY 19, 2018

Atlanta Gas Light Company

Former Manufactured Gas Plant

Macon, Bibb County, Georgia



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FILE: 0366660 AGL Resources Macon GW Pathforward.AR\05 - ERM Outputs\Figures\AGL_Macon\MXD\2017 04 4thVRPPrgRpt\Fig 3-3 GWBdrk.mxd

NOTES:

- Shallow Bedrock Well
- Deep Bedrock Well
- Apparent Direction of Hydraulic Potential
- Property Line
- ISS Mass

280.71 = Groundwater Elevation (Ft AMSL)

Deep bedrock wells MW-12DD, MW-27DD, MW-205DD and MW-302DD not used in hydraulic potential calculations.

FT AMSL = Feet Above Mean Sea Level

FIGURE 3-8 - HYDRAULIC POTENTIAL IN SHALLOW BEDROCK WELLS - FEBRUARY 19, 2018

Atlanta Gas Light Company

Former Manufactured Gas Plant

Macon, Bibb County, Georgia

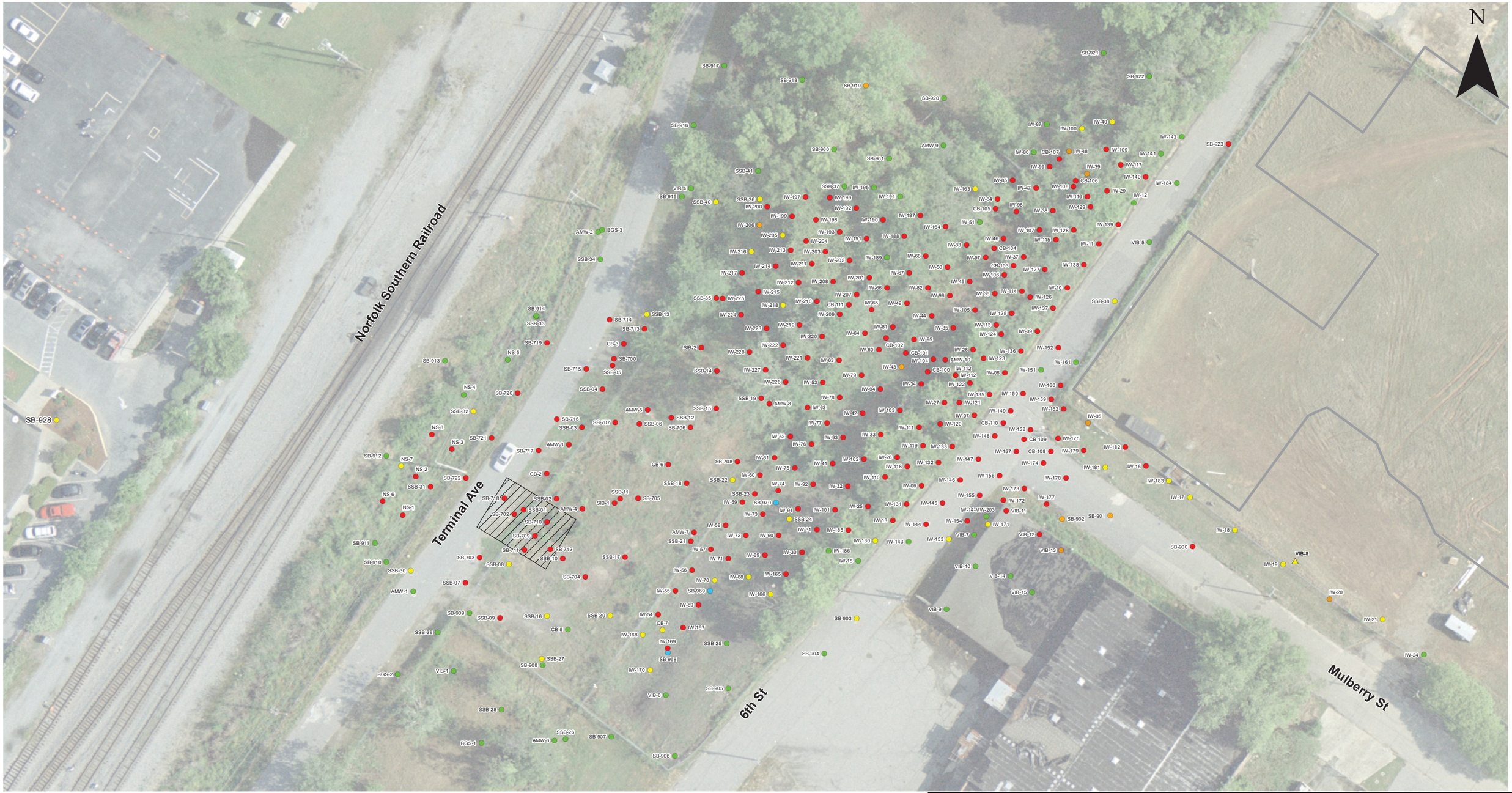

Image Source: April 2013 - Settimio Consulting Services, Inc.

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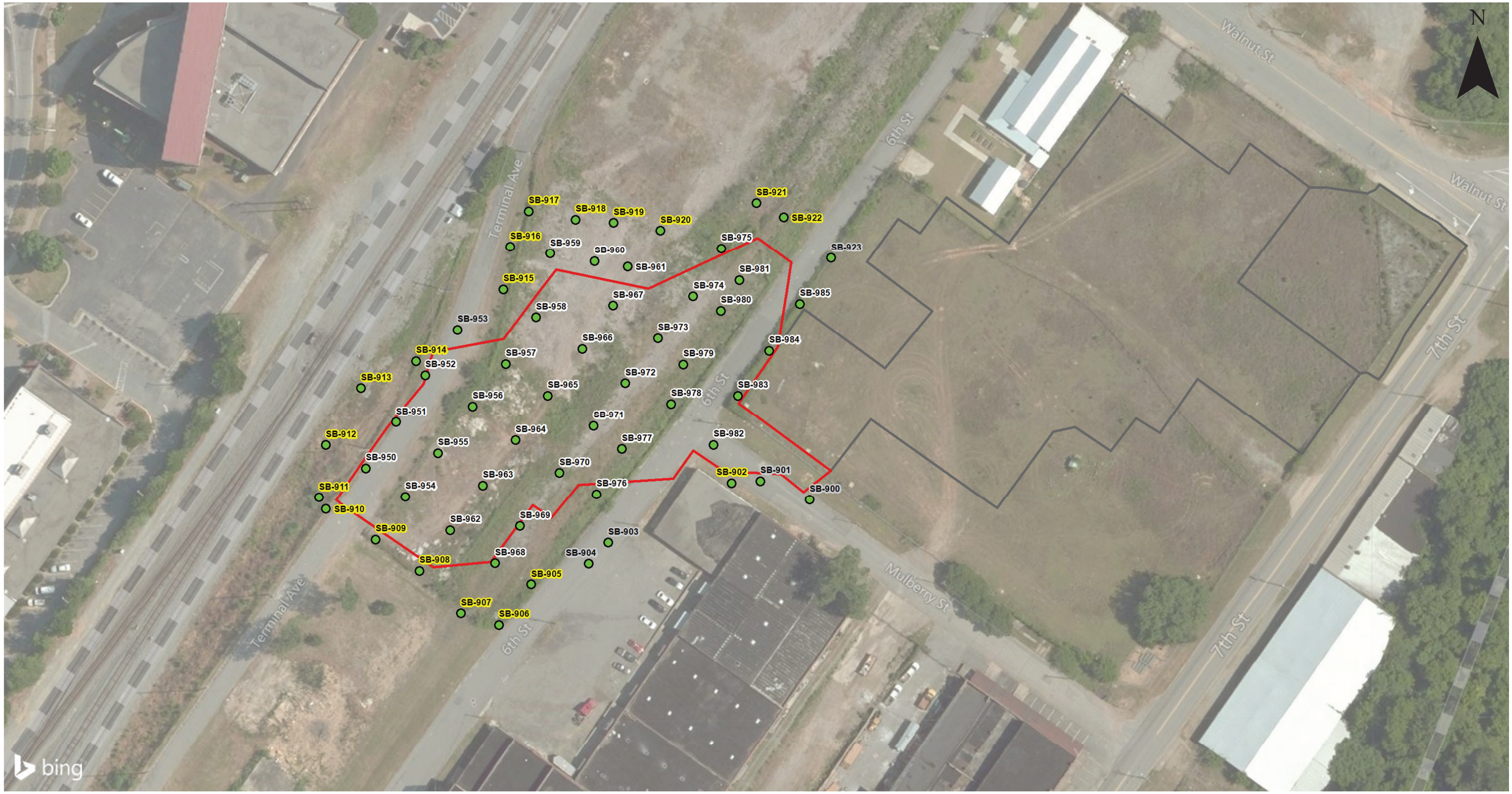
DATE:	2/6/2014	PN#	0176740	REVISION:	2
FILE:	S:\AGL\GIS\2014\02 2014 CAP\AGLMcnRemed_F1-14.mxd				

FIGURE 4-1
WESTERN PORTION SOIL BORING LOCATIONS AND EXTENT OF MGP IMPACTS (Pre-Excavation and ISS)

Atlanta Gas Light Company
Former Manufacture Gas Plant
Macon, Bibb County, Georgia

- Soil Boring (Residual Impacts)
- Soil Boring (Weathered Residual Impacts)
- Soil Boring (Staining)
- Soil Boring (No Visual Impacts)
- Soil Boring (Does Not Extend Below GW Table)
- Existing ISS Area
- Former Underground Structure

ERM



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DATE:	4/5/2018	PN#	0176740	REVISION:	2

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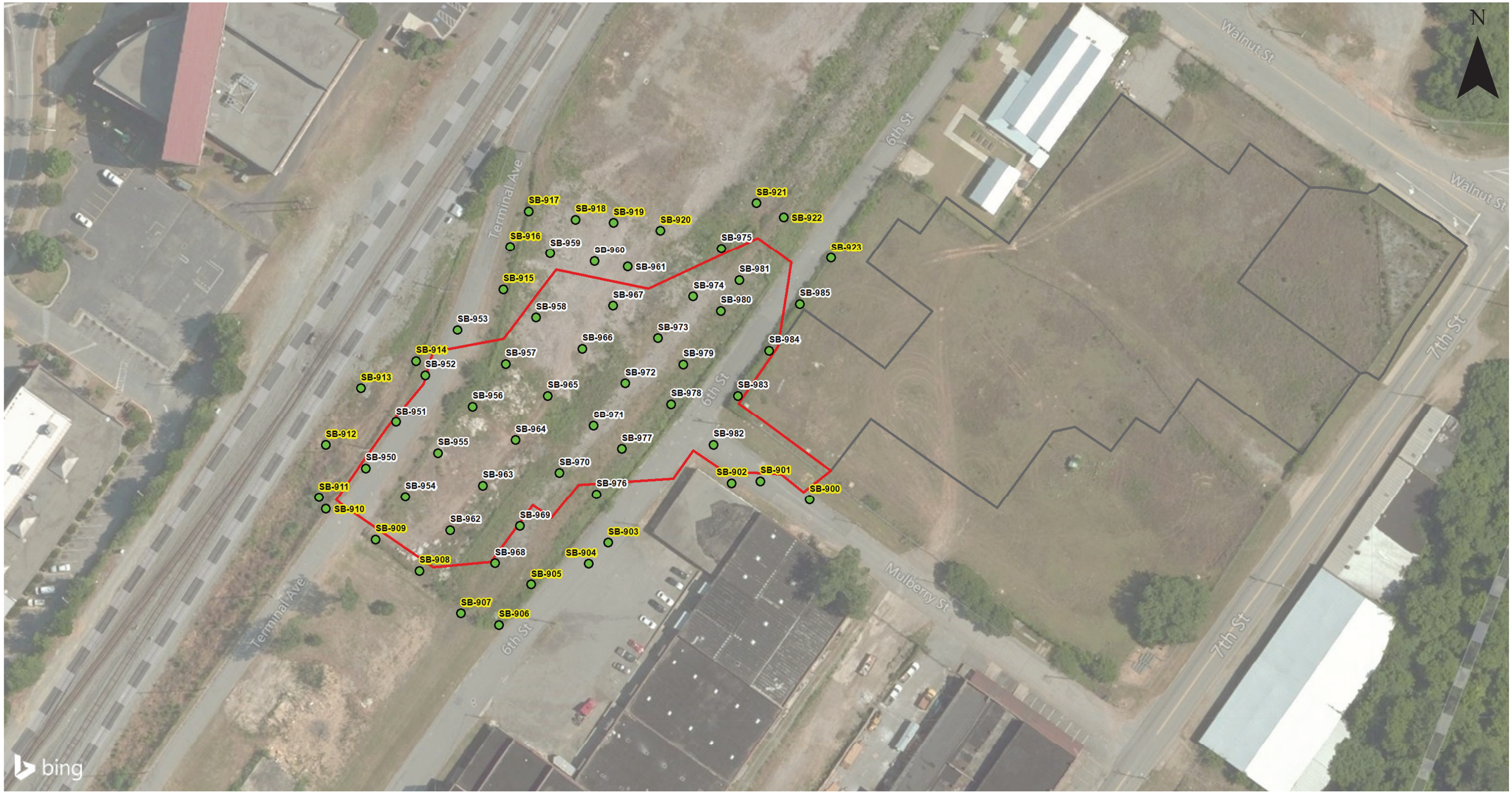
FIGURE 4-2
SURFACE SOIL (0-2') VOC RESULTS
DELINEATION (TYPE 1 RRS) AND SOIL REUSE
INVESTIGATION RESULTS
Atlanta Gas Light Company
Former Manufactured Gas Plant

- Soil Boring Below Type I RRS
- 2015 ISS Area
- Existing ISS Area
- SB-902 Soil Boring Below Type 1 RRS (March 2013 Delineation Boring)
- SB-956 Soil Boring Below Type 1 RRS (Soil Reuse Evaluation Boring)
- SB-956 No 0-2' Sample (location in paved roadway)

ERM



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DATE:	4/5/2018	PN#	0176740	REVISION:	2

FILE: Z:\Projects\0366660 AGL Resources Macon GW Pathforward.AR\11_AGLMaconGIS\zArchive (pre-2018)\MXD\2014 CAP Addendum\AGLMcnRemed_FX_2-WaterTable.mxd

FIGURE 4-3
SUBSURFACE SOIL (2' - WATER TABLE) VOC RESULTS
DELINEATION (TYPE 1 RRS) AND SOIL REUSE
INVESTIGATION RESULTS
Atlanta Gas Light Company
Former Manufactured Gas Plant

- Soil Boring Below Type I RRS
- 2015 ISS Area
- Existing ISS Area
- SB-902 Soil Boring Below Type 1 RRS (March 2013 Delineation Boring)
- SB-956 Soil Boring Below Type 1 RRS (Soil Reuse Evaluation Boring)

ERM

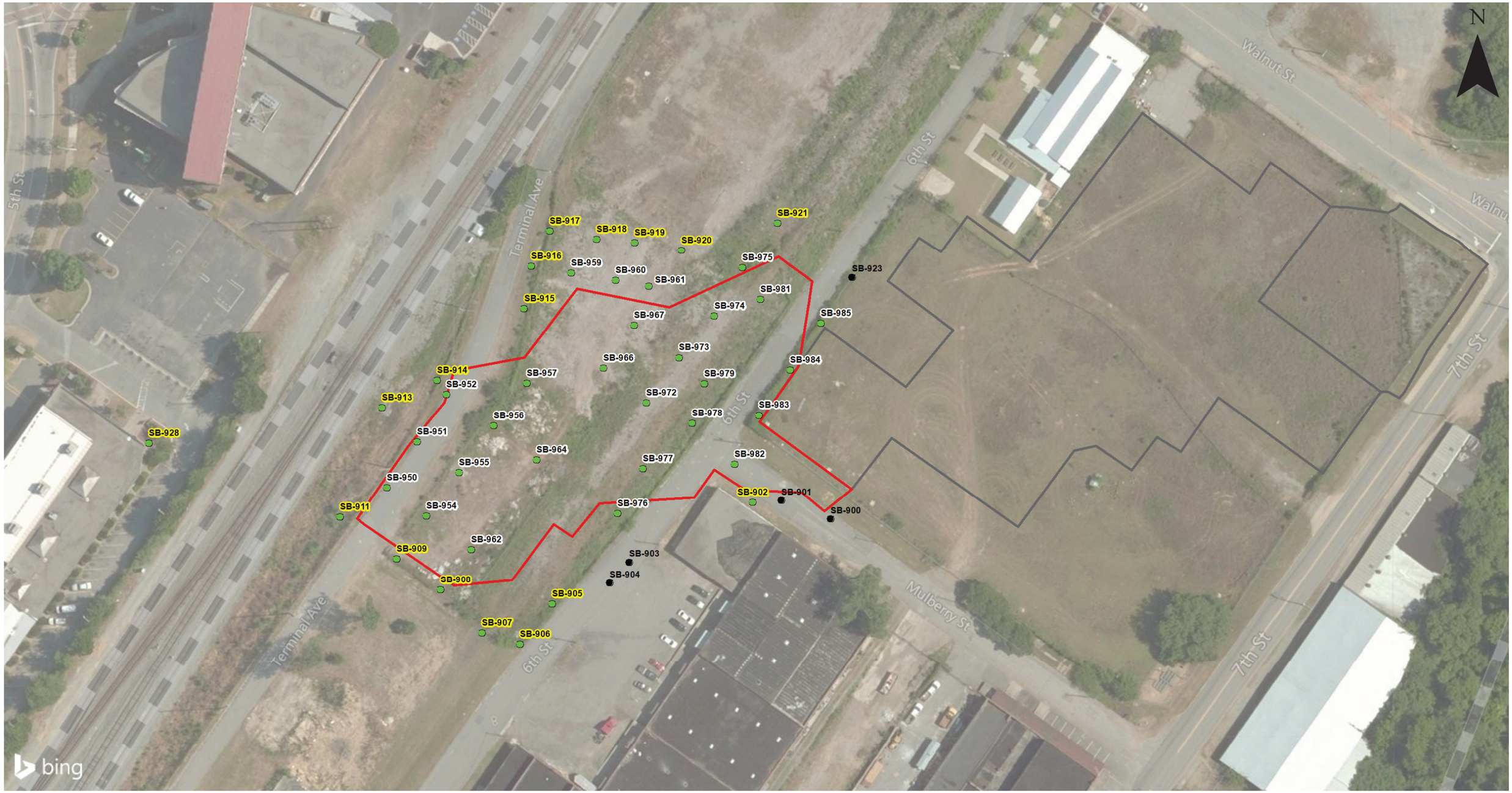

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FIGURE 4-4
SURFACE SOIL (0 - 2') SVOC RESULTS
DELINEATION (TYPE 1 RRS) AND SOIL REUSE
INVESTIGATION RESULTS
Atlanta Gas Light Company
Former Manufactured Gas Plant

- Soil Boring Below Type I RRS
- No 0 - 2' Sample (location in paved roadway)
- 2015 ISS Area
- Existing ISS Area
- SB-902 Soil Boring Below Type 1 RRS (March 2013 Delineation Boring)
- SB-956 Soil Boring Below Type 1 RRS (Soil Reuse Evaluation Boring)

ERM

N

Walnut St

5th St

Terminal Ave

6th St

7th St

Mulberry St

SB-917 SB-918 SB-919 SB-920 SB-921 SB-922 SB-916 SB-959 SB-960 SB-975 SB-923 SB-961 SB-981 SB-915 SB-974 SB-967 SB-985 SB-980 SB-958 SB-953 SB-973 SB-914 SB-979 SB-952 SB-972 SB-983 SB-978 SB-928 SB-951 SB-964 SB-912 SB-977 SB-982 SB-955 SB-950 SB-902 SB-901 SB-963 SB-976 SB-900 SB-910 SB-969 SB-962 SB-903 SB-909 SB-925 SB-904 SB-908 SB-905 SB-907 SB-906

bing

0 100 200

Feet

Environmental Resources Management

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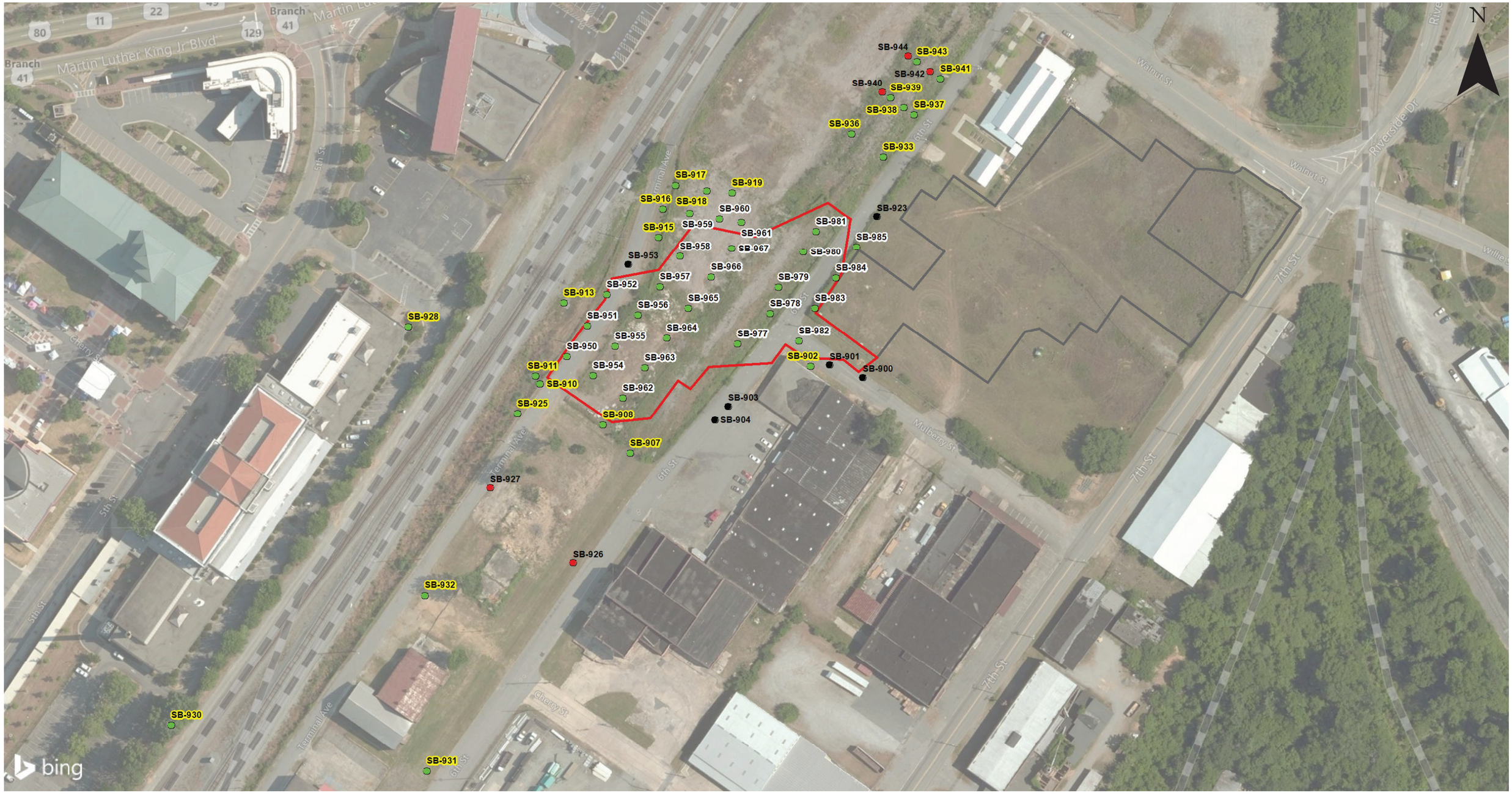
DATE:	4/26/2018	PN#	0176740	REVISION:	2

FILE: Z:\Projects\0366660 AGL Resources Macon GW Pathforward.AR\11_AGLMaconGIS\zArchive (pre-2018)\MXD\2014 CAP Addendum\AGLMcnRemed_FX_2_WaterTable_SVOC.mxd

FIGURE 4-5
SUBSURFACE SOIL (2' - WATER TABLE) SVOC RESULTS
DELINEATION (TYPE 1 RRS) AND SOIL REUSE
INVESTIGATION RESULTS
Atlanta Gas Light Company
Former Manufactured Gas Plant

- Soil Boring Below Type I RRS
- 2015 ISS Area
- Existing ISS Area
- SB-902 Soil Boring Below Type 1 RRS (March 2013 Delineation Boring)
- SB-956 Soil Boring Below Type 1 RRS (Soil Reuse Evaluation Boring)

ERM



Environmental Resources Management

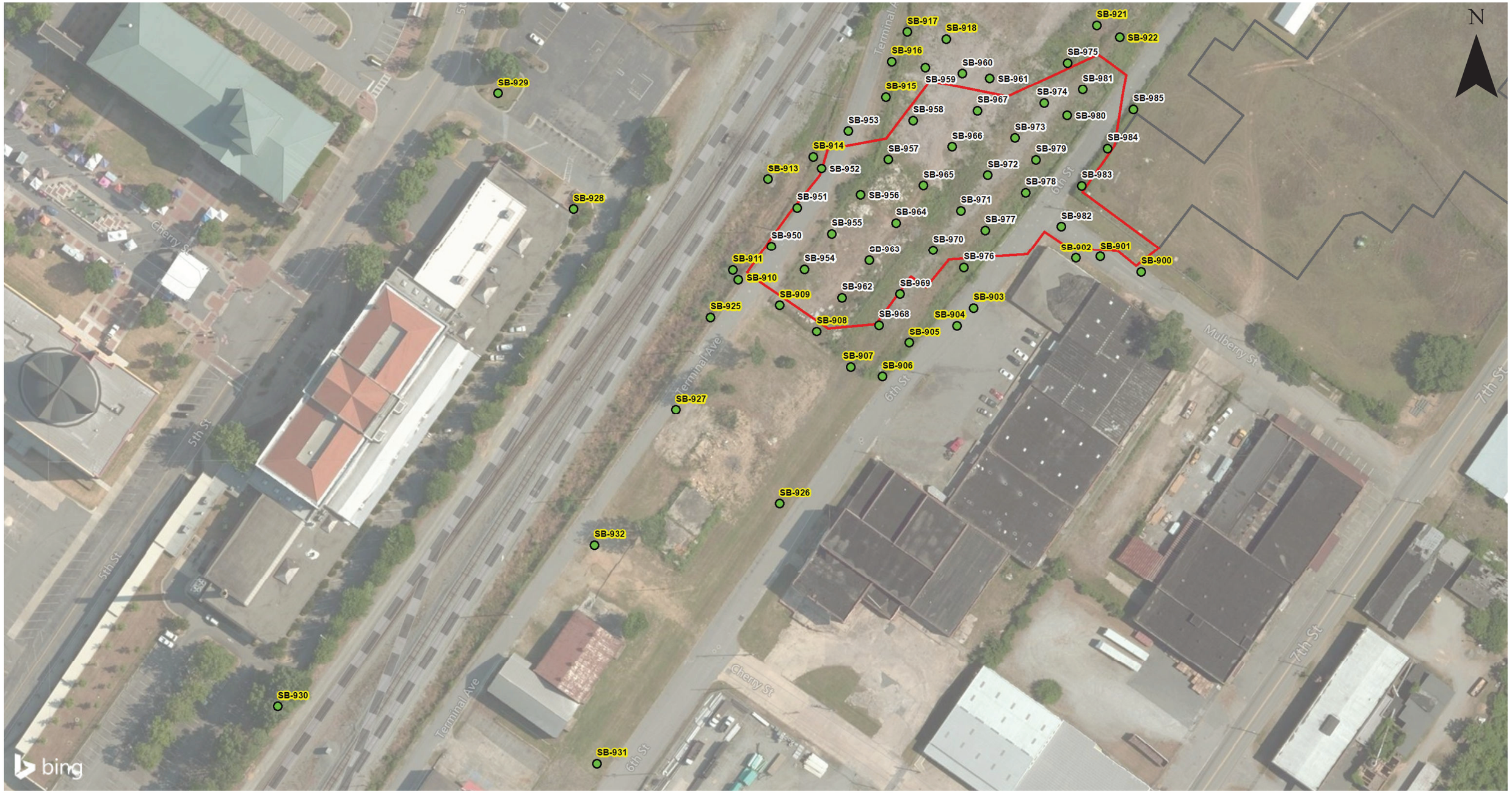
DESIGN:	NGV	DRAWN:	M Gearman	CHKD.:	NGV
DATE:	4/26/2018	PN#	0176740	REVISION:	2

Z:\Projects\0366660 AGL Resources Macon GW Pathforward.AR\11_AGLMaconGIS\zArchive (pre-2018)\MXD\2014 CAP Addendum\AGLMcnRemed_FX_0_2_Inorganic.mxd

FIGURE 4-6
SURFACE SOIL (0 - 2') INORGANIC COI RESULTS
DELINEATION (TYPE 1 RRS) AND SOIL REUSE
INVESTIGATION RESULTS
Atlanta Gas Light Company
Former Manufactured Gas Plant

- Sample Boring Below Type 1 RRS
- Inorganic Type 1 Exceedence Not Related to MGP Imapcts
- No 0 - 2' Sample (location in paved roadway)
- 2015 ISS Area
- Existing ISS Area
- SB-902 Soil Boring Below Type 1 RRS (March 2013 Delineation Boring)
- SB-956 Soil Boring Below Type 1 RRS (Soil Reuse Evaluation Boring)

ERM



Environmental Resources Management

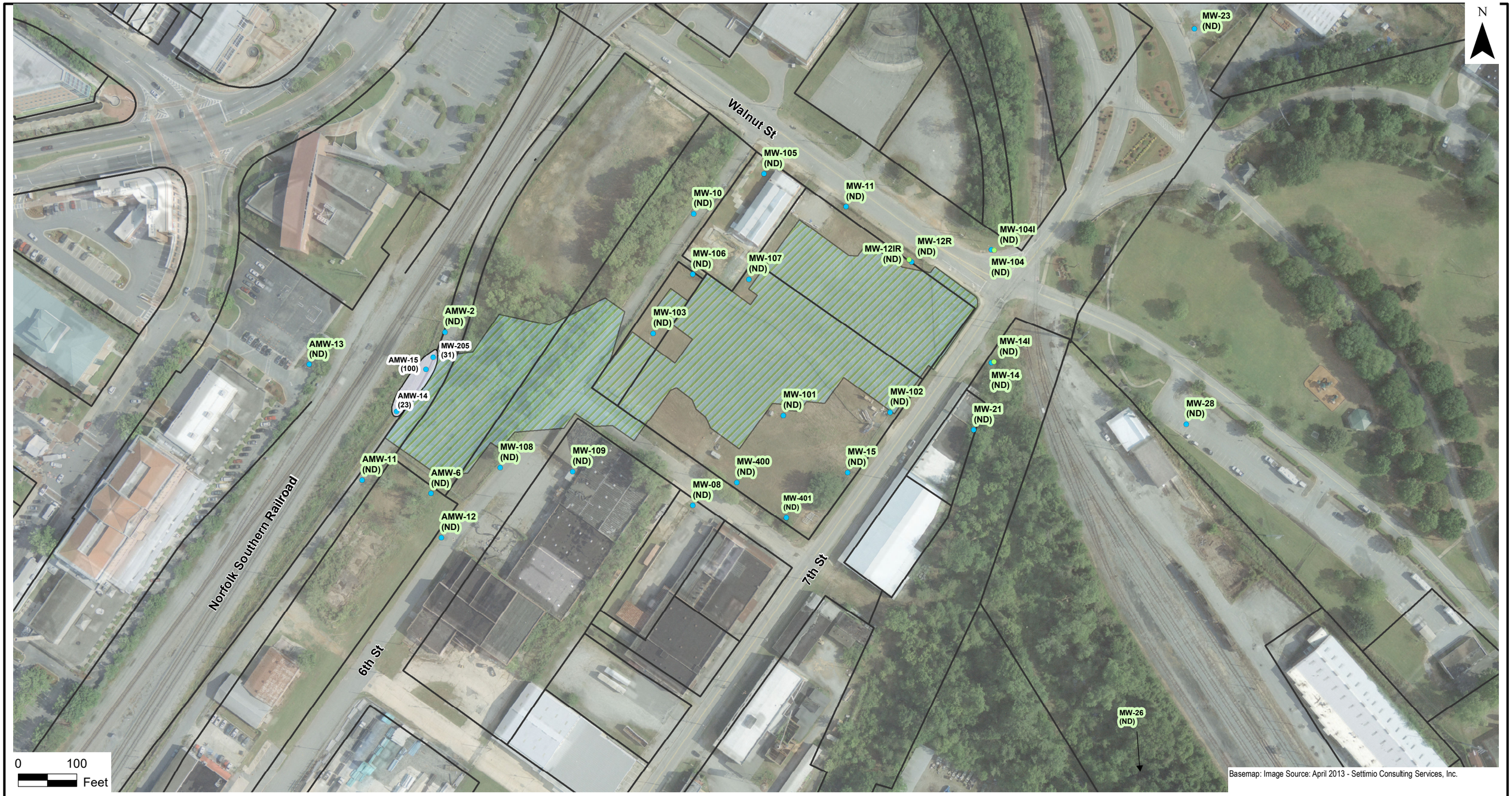
DESIGN:	NGV	DRAWN:	M Gearman	CHKD.:	NGV
DATE:	4/26/2018	PN#	0176740	REVISION:	2

FILE: Z:\Projects\0366660 AGL Resources Macon GW Pathforward.AR\11_AGLMaconGIS\zArchive (pre-2018)\MXD\2014 CAP Addendum\AGLMcnRemed_FX_2_WaterTable_Inorganic.mxd

FIGURE 4-7
SUBSURFACE SOIL (2' - WATER TABLE) INORGANIC COI RESULTS DELINEATION (TYPE 1 RRS) AND SOIL REUSE INVESTIGATION RESULTS
Atlanta Gas Light Company
Former Manufactured Gas Plant

- Soil Boring Below Type I RRS
- 2015 ISS Area
- Existing ISS Area
- SB-902 Soil Boring Below Type 1 RRS (March 2013 Delineation Boring)
- SB-956 Soil Boring Below Type 1 RRS (Soil Reuse Evaluation Boring)

ERM



ERM

Environmental Resources Management

DESIGN:	H Sartain	DRAWN:	S Vizuete	CHKD.:	A Reimer
DATE:	6/26/2018	SCALE:	AS SHOWN	REVISION:	0

FILE: 0366660 AGL Resources Macon GW Pathforward.AR\05 - ERM Outputs\Figures\AGL_Macon\MXD\2017 04 4thWRPrpt\Rpt\Fig 5-2 BenzAlluv.mxd

- Shallow Well
- Intermediate Well
- Property Line
- ISS Mass

Benzene Concentration Contour

- >9 µg/L (Type 4 RRS), <100 µg/L

NOTES:

All samples collected February 2018

(35) Benzene Concentration

(ND) Non Detect

µg/L Micrograms per Liter

Sample result ND or < Applicable Cleanup Goal

FIGURE 5-1 - BENZENE IN ALLUVIAL GROUNDWATER FEBRUARY 2018

Atlanta Gas Light Company

Former Manufactured Gas Plant

Macon, Bibb County, Georgia

ERM

Environmental Resources Management

DESIGN:	H Sartain	DRAWN:	S Vizuete	CHKD.:	A Reimer
DATE:	6/26/2018	SCALE:	AS SHOWN	REVISION:	0

FILE: 0366660 AGL Resources Macon GW Pathforward.AR\05 - ERM Outputs\Figures\AGL_Macon\MXD\2017 04 4thWRPPrgRpt\Fig 5-3_NaphAlluv.mxd

- Shallow Well
- Intermediate Well
- Property Line
- ISS Mass

Naphthalene Concentration Contour

- >20 µg/L (Type 4 RRS), <100 µg/L
- >100 µg/L, <1,000 µg/L

NOTES:

All samples collected February 2018

(18) Naphthalene Concentration

(ND) Non Detect

µg/L Micrograms per Liter

Sample result ND or < Applicable Cleanup Goal

FIGURE 5-2 - NAPHTHALENE IN ALLUVIAL GROUNDWATER FEBRUARY 2018

Atlanta Gas Light Company

Former Manufactured Gas Plant

Macon, Bibb County, Georgia

Environmental Resources Management

DESIGN:	H Sartain	DRAWN:	S Vizuete	CHKD.:	A Reimer
DATE:	6/26/2018	SCALE:	AS SHOWN	REVISION:	0

FILE: 0366660 AGL Resources Macon GW PathForward.AR\05 - ERM Outputs\Figures\AGL_Macon\MXD\2017 04 4thVRPPrgRpt\Fig 5-4_BenzBdrk.mxd

- Shallow Bedrock Well
- Deep Bedrock Well
- Property Line
- ISS Mass

NOTES:

All samples collected February 2018

MW-309D & MW-111D were not sampled due to the presence of DNAPL.

(11) Benzene Concentration in Micrograms per Liter

(ND) Non Detect

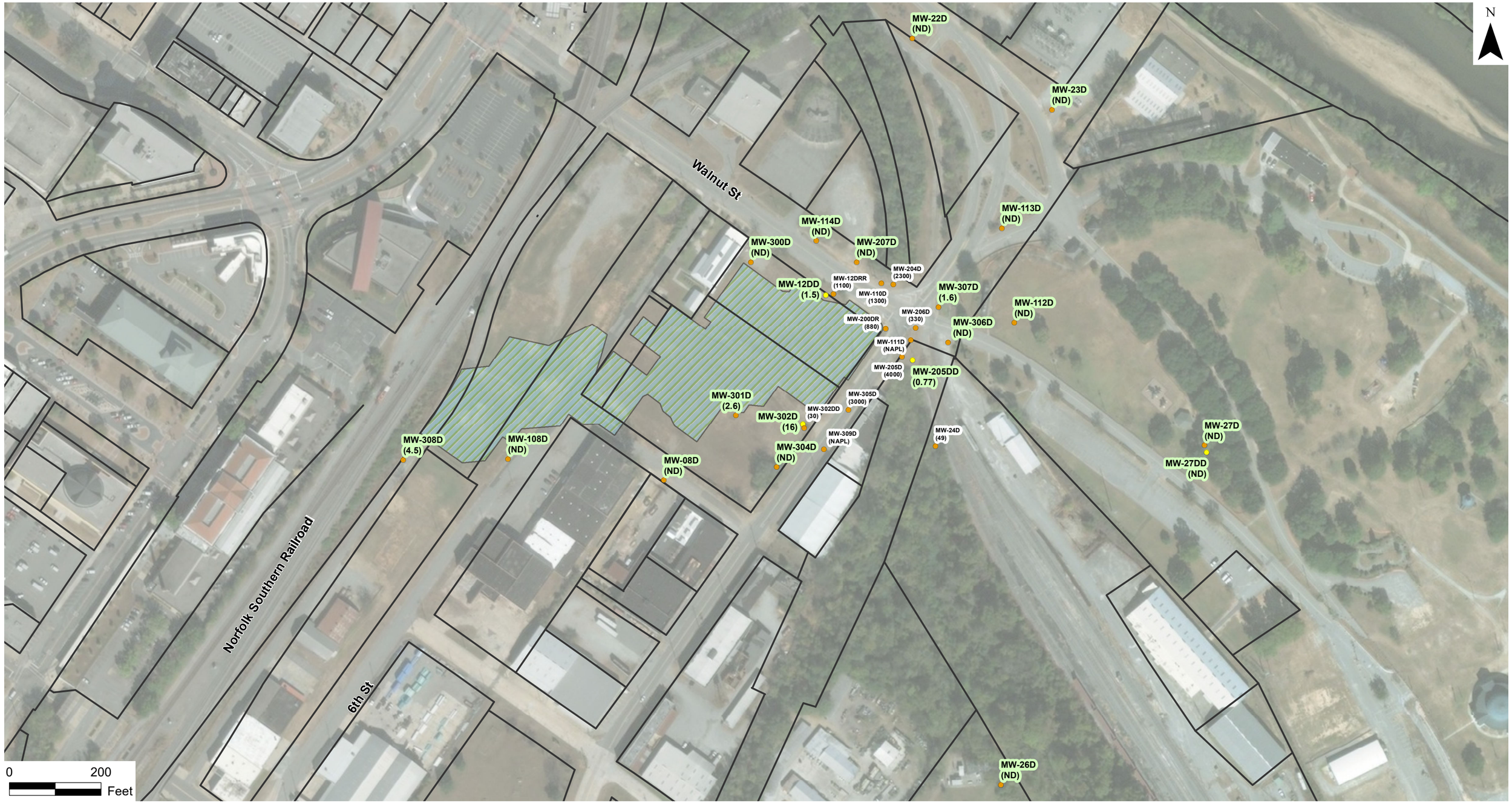
Sample result ND or < Applicable Cleanup Goal

FIGURE 5-3 - BENZENE IN BEDROCK GROUNDWATER FEBRUARY 2018

Atlanta Gas Light Company

Former Manufactured Gas Plant

Macon, Bibb County, Georgia



Environmental Resources Management

DESIGN:	H Sartain	DRAWN:	S Vizuete	CHKD.:	A Reimer
DATE:	6/26/2018	SCALE:	AS SHOWN	REVISION:	0

FILE: 0366660 AGL Resources Macon GW Pathforward.AR\05 - ERM Outputs\Figures\AGL_Macon\MXD\2017 04 4thIVRPPrgRpt\Fig 5-5_NaphBdrk.mxd

- Shallow Bedrock Well
- Deep Bedrock Well
- Property Line
- ISS Mass

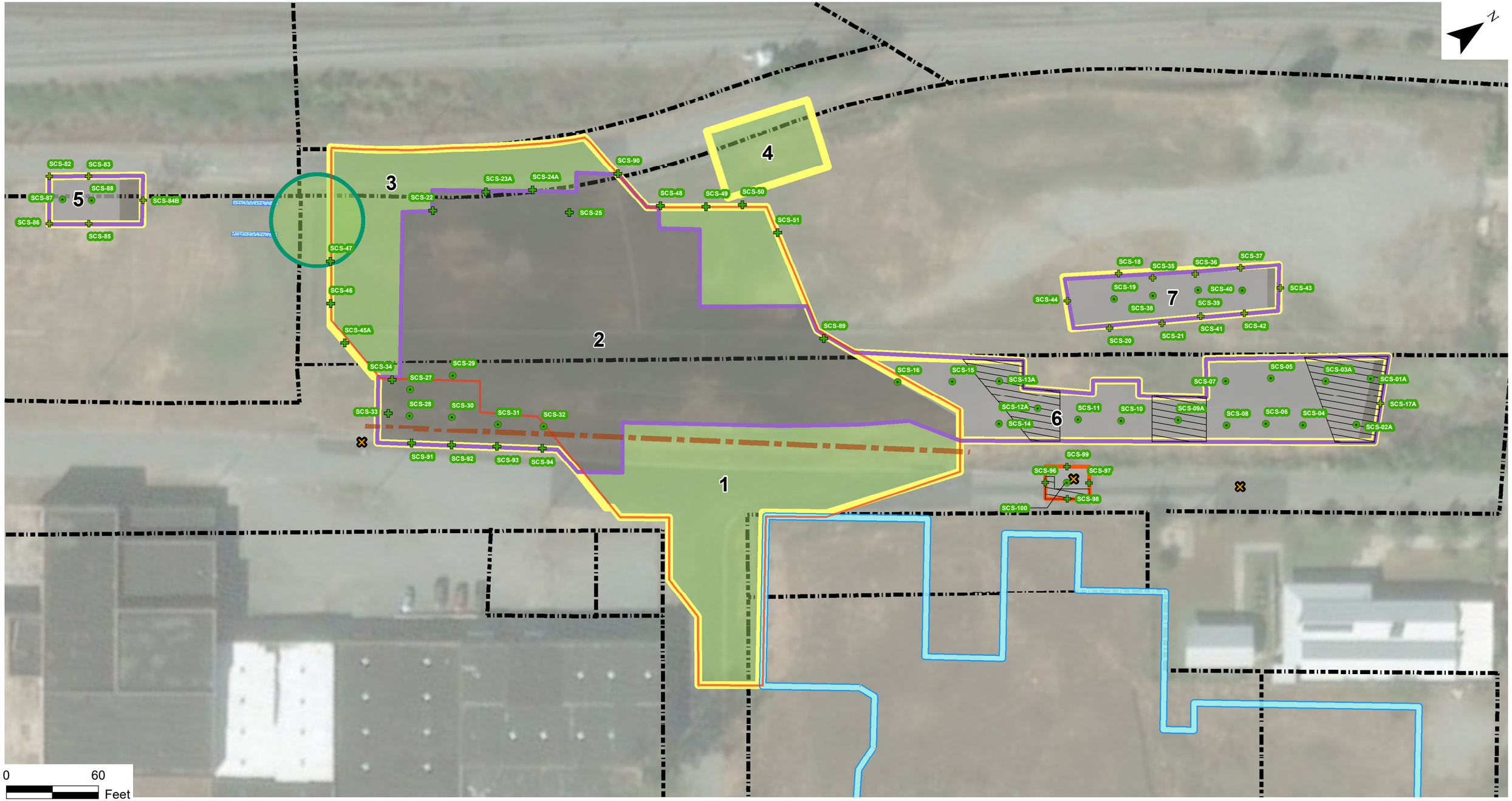
NOTES:
All samples collected February 2018
MW-309D & MW-111D were not sampled due to the presence of DNAPL.
(530) Naphthalene Concentration in Micrograms per Liter.
(ND) Non Detect
Sample result ND or < Applicable Cleanup Goal

FIGURE 5-4 - NAPHTHALENE IN BEDROCK GROUNDWATER FEBRUARY 2018

Atlanta Gas Light Company

Former Manufactured Gas Plant

Macon, Bibb County, Georgia



Environmental Resources Management

DESIGN:	H Sartain	DRAWN:	M Gearman	CHKD.:	N Vrey
DATE:	6/26/2018	SCALE:	AS SHOWN	REVISION:	0

FILE: P:\Projects\0366660 AGL Resources Macon GW Pathforward.AR\11_AGLMaconGIS\MXD\Cristian Edits 06082018\Fig 4-9 Soil0-2Ft.mxd

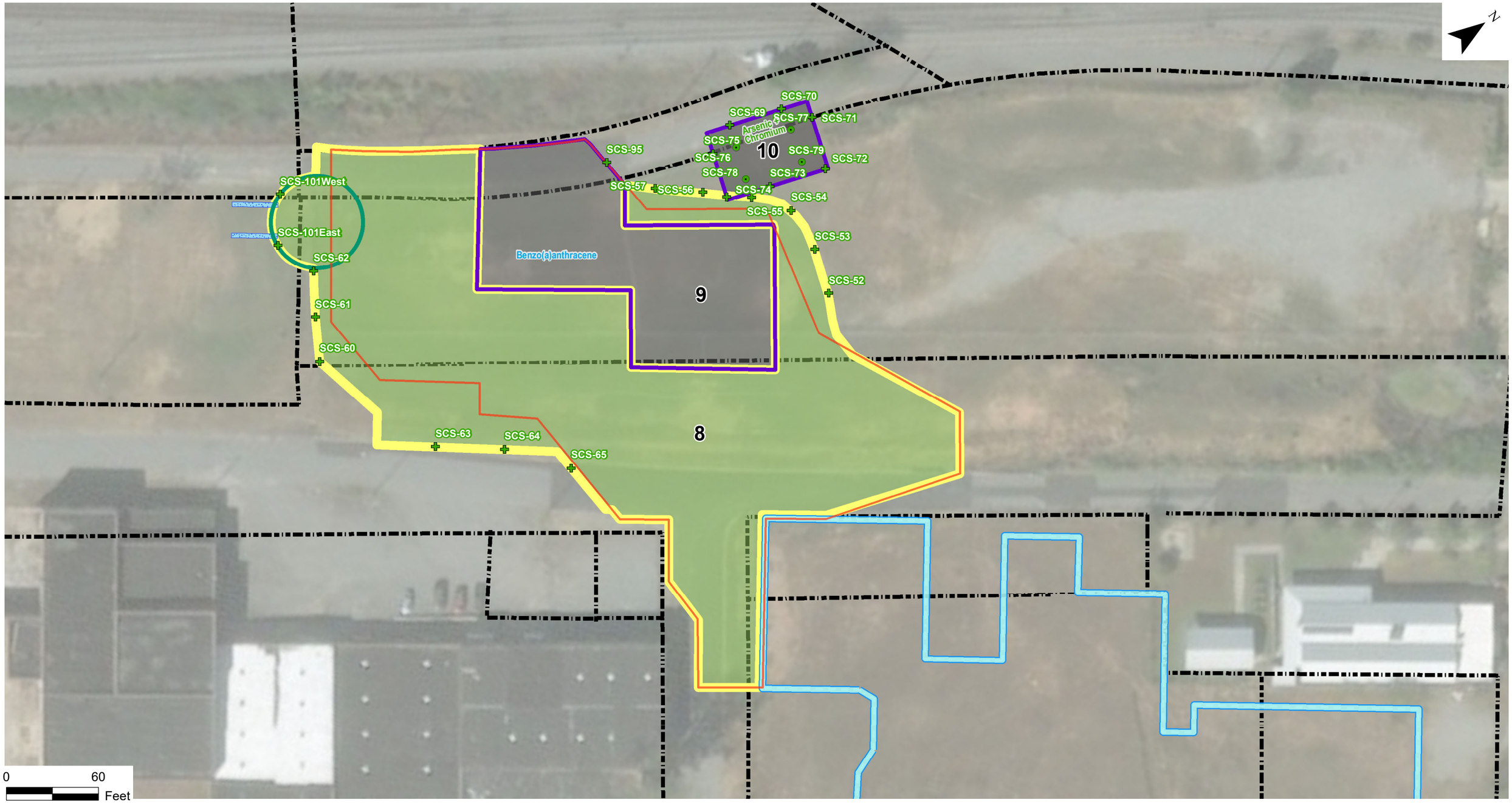
- <Type 4 RRS (Floor Sample)
- <Type 4 RRS (Wall Sample)
- Gas Line Cut Coordinates
- Holder Wall
- Holder Excavation
- 1 Excavation Area Designation
- Excavated & Disposed
- Overexcavated Floor Sample Area (3')
- Excavated & Stockpiled
- Cut & Cap Excavation Area (Disposed)
- Overexcavated Cut & Cap Area (3')
- Approx. Location 18-Inch Cast Iron Pipe - (~1' to 2' Depth at North End and ~0.5' to 1' Depth at South End
- New ISS Area
- Existing ISS Area
- Exploratory Trench South of Holder (15')
- VRP Applicant Property Boundary
- Excavation Limits

FIGURE 6-1
REMEDIAL SOIL EXCAVATION LIMITS 0 - 2 FEET BGS

Atlanta Gas Light Company

Former Manufactured Gas Plant

Macon, Bibb County, Georgia



Environmental Resources Management

DESIGN:	H Sartain	DRAWN:	M Gearman	CHKD.:	N Vrey
DATE:	6/26/2018	SCALE:	AS SHOWN	REVISION:	0

FILE: P:\Projects\0366660 AGL Resources Macon GW Pathforward.AR\11_AGLMaconGIS\MXD\Cristian Edits 06082018\Fig 4-10_Soil2-6Ft.mxd

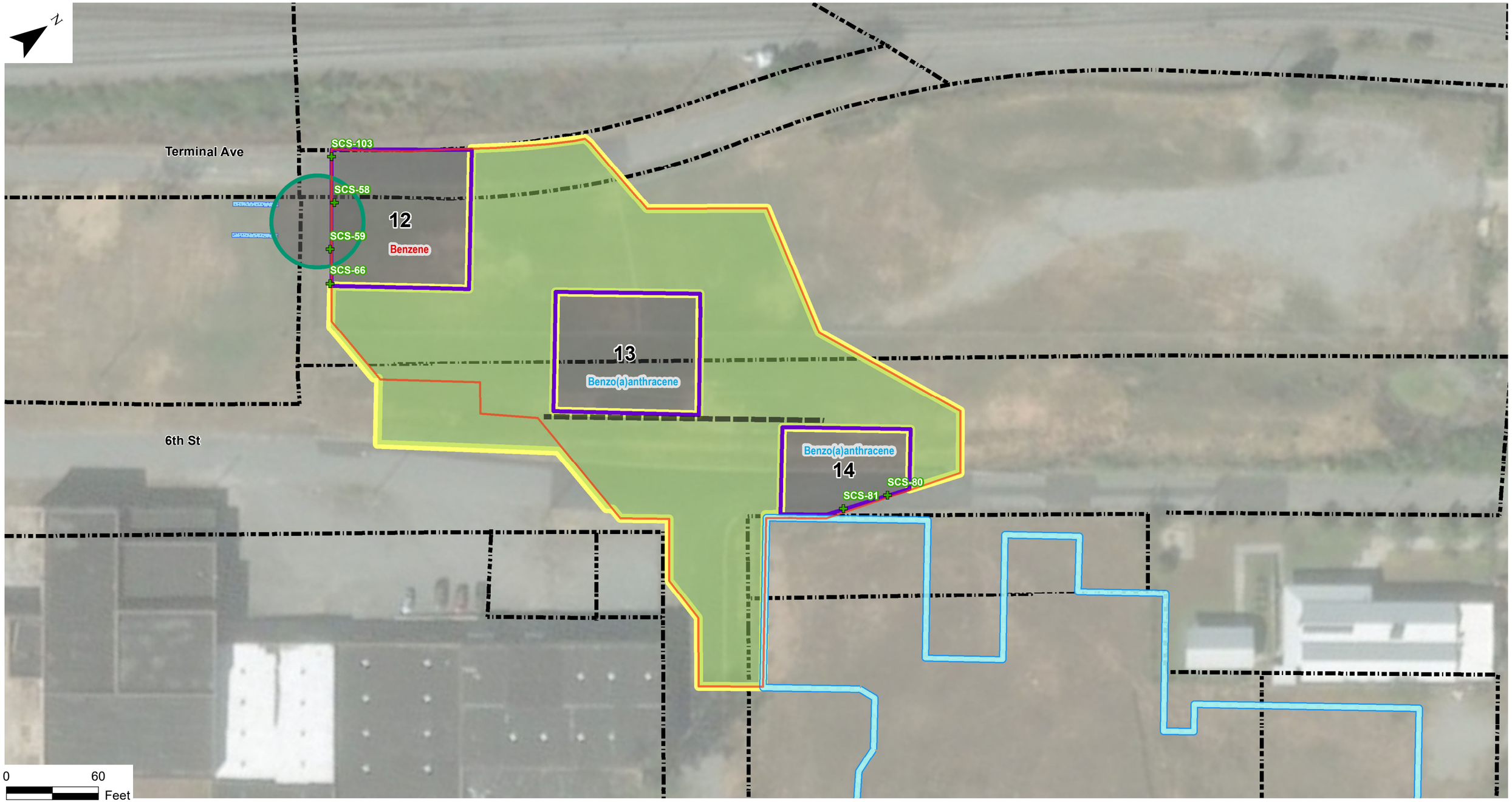
- <Type 4 RRS (Floor Sample)
- <Type 4 RRS (Wall Sample)
- Holder Wall
- Holder Excavation
- 8 Excavation Area Designation
- Excavated & Disposed
- Excavated & Stockpiled
- Excavation Limits
- New ISS Area
- Existing ISS Area
- Exploratory Trench South of Holder (15')
- VRP Applicant Property Boundary

FIGURE 6-2
REMEDIAL SOIL EXCAVATION LIMITS 2 - 6 FEET BGS

Atlanta Gas Light Company

Former Manufactured Gas Plant

Macon, Bibb County, Georgia



Environmental Resources Management

ERM

DESIGN:	H Sartain	DRAWN:	S Vizuete	CHKD.:	N Vrey
DATE:	6/26/2018	SCALE:	AS SHOWN	REVISION:	0

FILE: P:\Projects\0366660 AGL Resources Macon GW Pathforward.AR\11_AGLMaconGIS\MXD\Cristian Edits 06082018\Fig 4-11_Soil6-10Ft.mxd

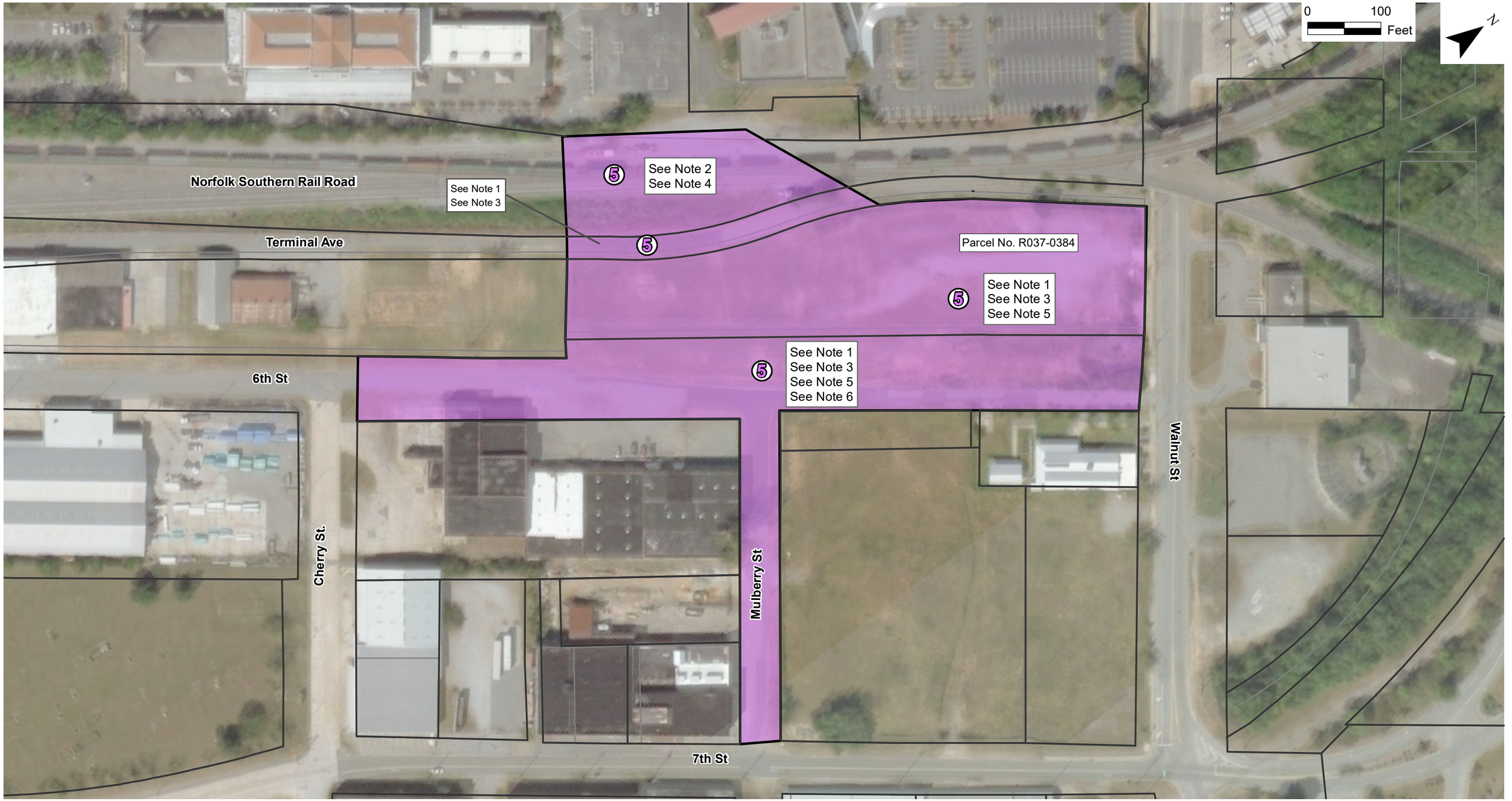
- <Type 4 RRS (Wall Sample)
- Holder Wall
- Holder Excavation
- 12 Excavation Area Designation
- Excavated & Disposed
- Excavated & Stockpiled
- Excavation Limits
- Approx. Location Brick Culvert - 2Ft. Wide (~10' - 14')
- New ISS Area
- Existing ISS Area
- Exploratory Trench South of Holder (15')
- VRP Applicant Property Boundary

FIGURE 6-3
REMEDIAL SOIL EXCAVATION LIMITS 6 - 10 FEET BGS

Atlanta Gas Light Company

Former Manufactured Gas Plant

Macon, Bibb County, Georgia



Environmental Resources Management

ERM

DESIGN:	H Sartain	DRAWN:	M Gearman	CHKD.:	A Reimer
DATE:	8/20/2018	SCALE:	AS SHOWN	REVISION:	0

FILE: 0366660 AGL Resources Macon GW Pathforward.AR\05 - ERM Outputs\Figures\AGL_Macon\MXD\2017 04 4thVRPFigRpt\Fig 6-4 2018 Parcel Soils Certification former MPG site.mxd

Property Line

(5) Type 5 RRS

Notes:

Note 1: Surface Soil Complies with Type 1 or Type 2 (Residential) RRS

Note 2: Surface Soil Complies with Type 3 or Type 4 (Non-Residential) RRS

Note 3: Subsurface Soil Complies with Type 1 or Type 2 (Residential) RRS

Note 4: Subsurface Soil Complies with Type 3 or Type 4 (Nonresidential) RRS

Note 5: Utility Corridor (0-10 ft bgs) provided with soil backfill compliant with Type 1 or Type 2 (Residential) RRS

Note 6: Parcel re-certified in 2018 (modified existing 2004 Soil Certification)

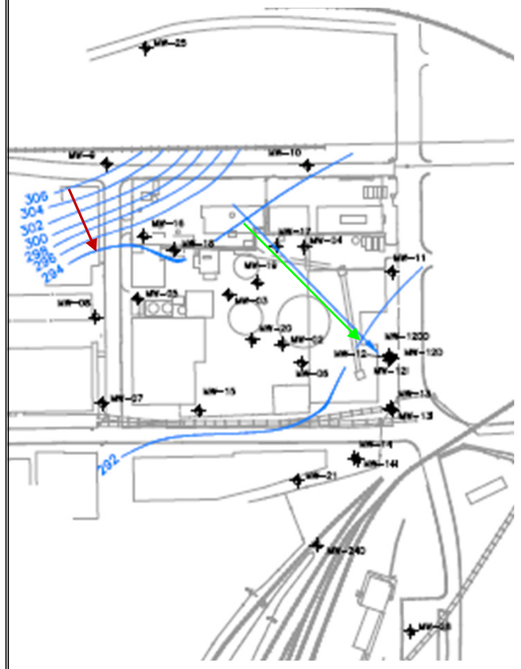
FIGURE 6-4
2018 PARCEL SOIL CERTIFICATIONS
WESTERN PORTION FORMER MGP SITE

Atlanta Gas Light Company

Former Manufactured Gas Plant

Macon, Bibb County, Georgia

From: CSR; RETEC, 2004

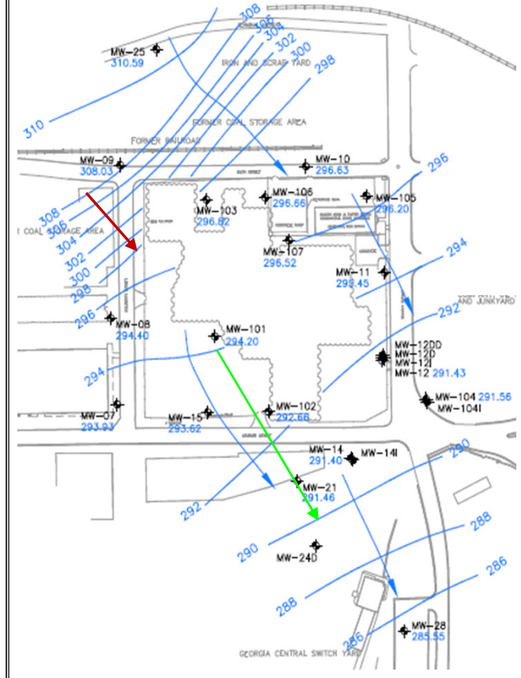


JANUARY 10, 2002

Western Portion Approximate hydraulic gradient
= 306-294 / 130 = 0.09 ft/ft

Eastern Portion Approximate hydraulic gradient
= 294-292 / 300 = 0.007 ft/ft

From: CSR; RETEC, 2004

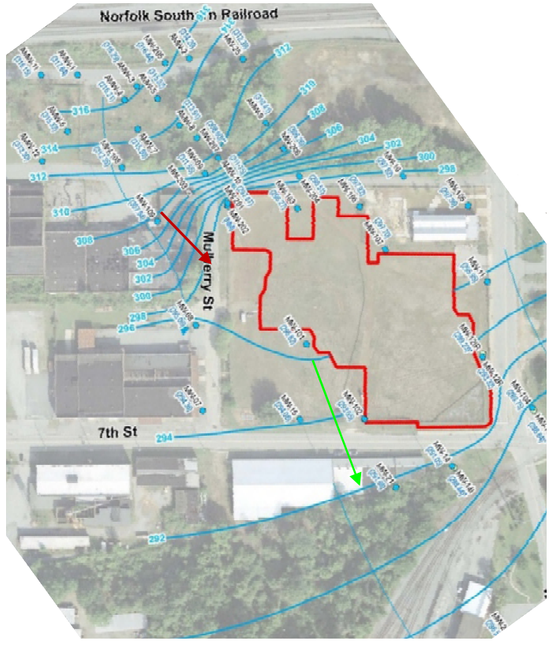


SEPTEMBER 8, 2003

Western Portion Approximate hydraulic gradient
= 308-298 / 150 = 0.07 ft/ft

Eastern Portion Approximate hydraulic gradient
= 294-290 / 370 = 0.01 ft/ft

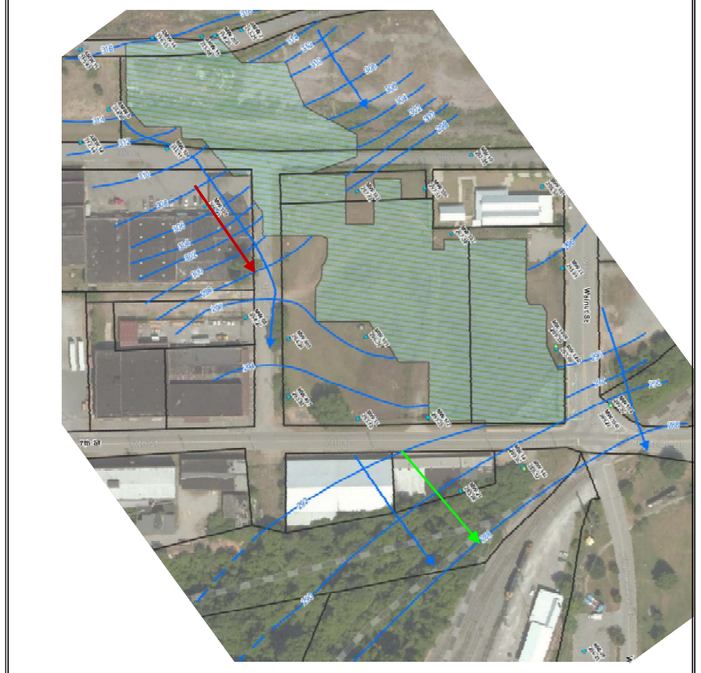
From: VIRP; ERM, 2014



August 5, 2013

Western Portion Approximate hydraulic gradient
= 308-298 / 130 = 0.08 ft/ft

Eastern Portion Approximate hydraulic gradient
= 296-292 / 260 = 0.02 ft/ft



February 19, 2018

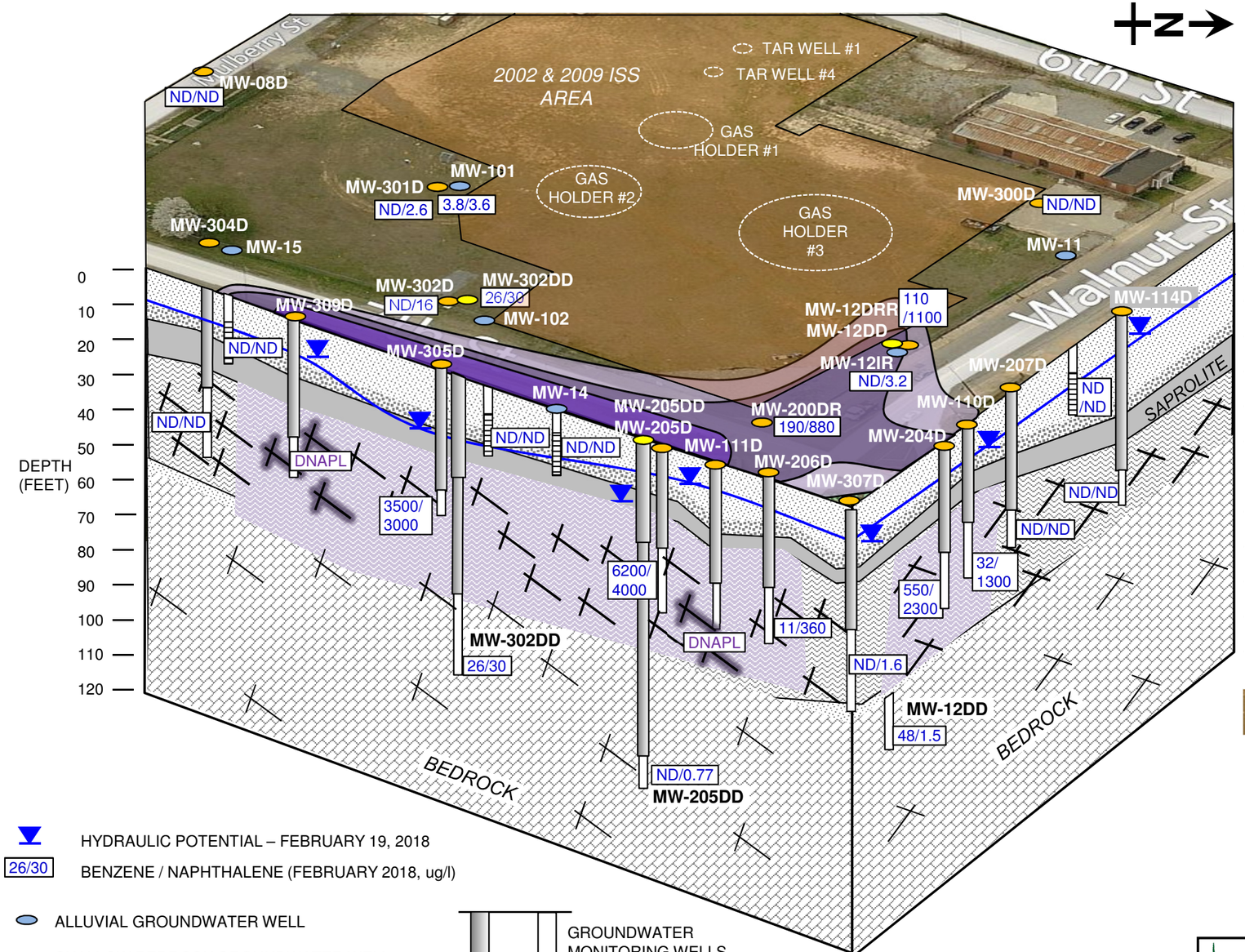
Western Portion Approximate hydraulic gradient
= 308-298 / 190 = 0.05 ft/ft

Eastern Portion Approximate hydraulic gradient
= 292-288 / 220 = 0.02 ft/ft

ERM

Figure 6-5
Alluvial Groundwater Elevation Maps
2002, 2003, 2013 and 2018

ATLANTA GAS LIGHT COMPANY
Former Manufactured Gas Plant
Macon, Bibb County, Georgia



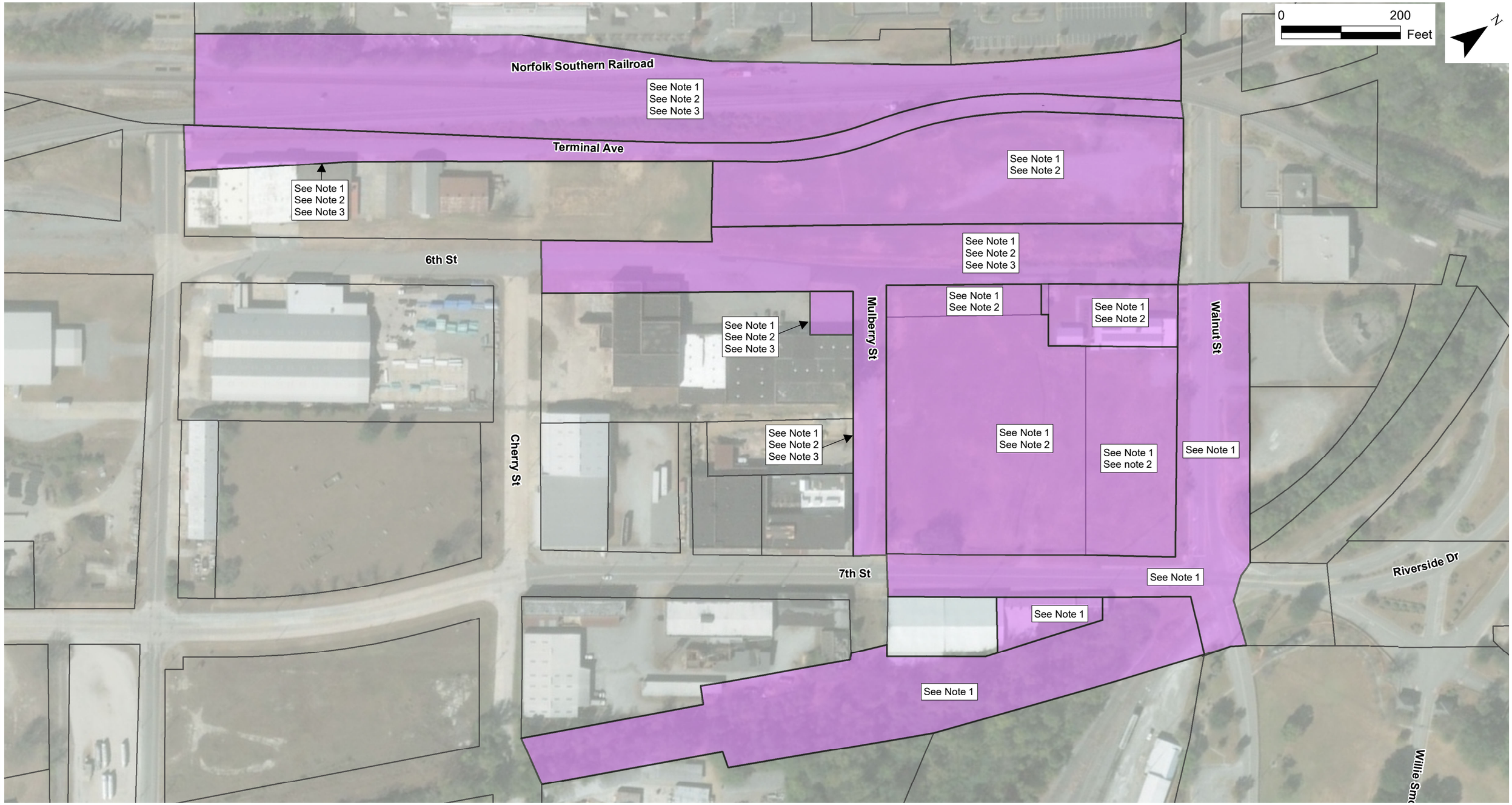
Monitor Well I.D.	Open Corehole / Screened Interval ft bgs	Benzene (ug/l)	Napthalene (ug/l)
MW-08D	38 - 53.5	ND	ND
MW-12DRR	37 - 52	110	1,100
MW-12DD	87 - 97	48	2
MW-110D	28 - 43	32	1,300
MW-111D	33 - 46.5	DNAPL	
MW-114D	45 - 55	ND	ND
MW-200DR	29.5 - 39.5	190	880
MW-204D	30.5 - 45.5	550	2,300
MW-205D	28 - 43	6,200	4,000
MW-205DD	90 - 100	ND	0.77
MW-206D	31 - 46	11	330
MW-207D	34 - 46.5	ND	ND
MW-300D	33 - 43	ND	ND
MW-301D	36 - 46	ND	2.6
MW-302D	35 - 45	ND	16
MW-302DD	70 - 100	26	30
MW-304D	41 - 61	ND	ND
MW-305D	34.5 - 41.5	3,500	3,000
MW-306D	32.5 - 51	8.4	ND
MW-307D	34 - 58	ND	1.6
MW-309D	35 - 45	DNAPL	

ft bgs - feet below ground surface
ft BTOC – feet below top of casing
ft AMSL – feet above mean sea level
µg/L – micrograms per liter
ND – Not Detected
DNAPL – Dense Non-Aqueous Phase Liquid
February 2018 Concentrations

Environmental Resources Management

CONCEPTUAL SITE MODEL – WALNUT STREET AND 7TH STREET
ATLANTA GAS LIGHT COMPANY
FORMER AGL MGP SITE
MACON, GA

FIGURE
6-6



Environmental Resources Management

DESIGN:	H Sartain	DRAWN:	C. La Rosa	CHKD.:	A Reimer
DATE:	8/9/2018	SCALE:	AS SHOWN	REVISION:	0

FILE: 0366660 AGL Resources Macon GW Pathforward.AR\05 - ERM Outputs\Figures\AGL_Macon\MXD\2017 04 4thVRPPrgRpt\Fig 7-1 Proposed UIC by Parcels.mxd

Property Line

Parcrel with UEC

Notes:
Note 1: Groundwater Use Restriction
Note 2: Digging Restriction
Note 3: Non-Residential Land Use Only

UEC = Uniform Environmental Covenant

FIGURE 7-1
PROPOSED UECs BY PARCELS

Atlanta Gas Light Company

Former Manufactured Gas Plant

Macon, Bibb County, Georgia

Table 1-1
Summary of VRP Qualified Properties and Adjacent Properties
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Current Parcel No. (as identified by Macon-Bibb County, 2018)	Parcel No. (as identified by Macon-Bibb County, 2004)	Owner
R082-0011	OC-27-1A	Cooling Tower Systems, Inc.
R082-0040	OC-28-1C	Truan Warehouse, LLC
---	OC-107-1A	Georgia Power Company
R074-0204	OC-14-1A	On Adams Street, LLC
R074-0209	OC-14-1AA	Seventh Street Investments
R074-0193	OC-107-1B	All About Animals Rescue, Inc.
ST89-0027	Central City Park	Macon-Bibb County
R074-0200	OC-15-5A	Marillac Properties, LLC
R074-0202	OC-26-7A	ECI Contracting Group Inc. & Mare's Lane Partners, LLC
R082-0003	OC-26-8C	ECI Contracting Group Inc. & Mare's Lane Partners, LLC
R082-0004		ECI Contracting Group Inc. & Mare's Lane Partners, LLC
R074-0191	OC-107-2A	Newtown Macon, Inc.
R074-0190	OC-107-3A	Newtown Macon, Inc.
R074-0223	OC-15-1A	Macon Bibb County Urban Redevelopment Authority
R074-UTIL	OC-15-4A	Macon Bibb County Urban Redevelopment Authority
R074-0205	OC-15-6A	Macon Bibb County Urban Redevelopment Authority
R081-0135	OC-26-3A	Prodigy Holdings, LLC
R081-0076	---	Prodigy Holdings, LLC
TBD	NA	Prodigy Holdings, LLC
R073-0384	NA	Atlanta Gas Light Company
Portions of Railroad Switching Yard and Right-of-Ways of CSX Transportation (north of Walnut Street and east of 7th Street, leased by Georgia Central)		CSX Transportation
6th Street and Right-of-Ways between Walnut and Cherry Streets		Macon-Bibb County
7th Street and Right-of-Ways between Walnut and Mulberry Streets		Macon-Bibb County
Mulberry Street and Right-of-Ways between 6th and 7th Streets		Macon-Bibb County
Walnut Street and Right-of-Ways between 6th and 7th Streets		Macon-Bibb County
Portions of Terminal Avenue and Right-of-Ways between Walnut and Poplar Streets		Macon-Bibb County
Portions of Railroad Right-of-Ways of Norfolk Southern (adjacent to Terminal Avenue)		Norfolk Southern
Portions of Railroad Right-of-Ways of Norfolk Southern (southeast of 7th Street between Lower Cherry Street and Walnut Street, and northeast of Walnut Street)		Norfolk Southern

Table 1-2
Summary of 2004 Soil Compliance Certifications (2004 CSR)
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Current Parcel No. (as identified by Macon-Bibb County, 2018)	Parcel No. (as identified by Macon-Bibb County, 2004)	Owner	Soil Certification (2004 CSR)				
			Type 1	Type 2	Type 3	Type 4	Type 5
R082-0011	OC-27-1A	Cooling Tower Systems, Inc.	X				
R082-0040	OC-28-1C	Truan Warehouse, LLC	X				
NA	OC-107-1A	Georgia Power Company	X				
R074-0204	OC-14-1A	On Adams Street, LLC		X			
R074-0209	OC-14-1AA	Seventh Street Investments		X			
R081-0135	OC-26-3A	Prodigy Holdings, LLC		X			
R074-0193	OC-107-1B	All About Animals Rescue, Inc.		X			
ST89-0027	Central City Park	Macon-Bibb County			X		
R074-0200	OC-15-5A	Marillac Properties, LLC				X	
R074-0202	OC-26-7A	ECI Contracting Group Inc. & Mare's Lane Partners				X	
R082-0003	OC-26-8C	ECI Contracting Group Inc. & Mare's Lane Partners				X	
R082-0004		ECI Contracting Group Inc. & Mare's Lane Partners				X	
R074-0191	OC-107-2A	Newtown Macon, Inc.				X	
R074-0190	OC-107-3A	Newtown Macon, Inc.				X	
Portions of Railroad Switching Yard and Right-of-Way of CSX Transportation (leased by Georgia Central)		NA		X			
Seventh Street and Right-of-Ways between Walnut and Mulberry Streets		Macon-Bibb County				X	
Walnut Street and Right-of-Ways between 6th and 7th Streets		Macon-Bibb County				X	
R074-0223	OC-15-1A	Macon Bibb County Urban Redevelopment Authority					X
R074-0205	OC-15-6A	Macon Bibb County Urban Redevelopment Authority					X
R074-UTIL	OC-15-4A	Macon Bibb County Urban Redevelopment Authority					X

Notes

Type 1 RRS
Type 2 RRS
Type 3 RRS
Type 4 RRS
Type 5 RRS

RRS = Risk Reduction Standard

Table 1-3
Background Concentrations and Risk Reduction Standards in Soil
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

	Background Soil Concentrations				Type 1 RRS *	Type 2 RRS	Type 4 RRS Construction Workers	
Chemical	**Surface Soil 0-2 ft.**	**Subsurface Soil (deposited) >2**	**Subsurface Soil (fill) >2 ft.**	**Saprolite Soil**	**Surface and Subsurface Soil**	**Surface and Subsurface Soil**	**Surface Soil 0-2 ft.**	**Subsurface Soil >2 ft.**
Volatile Organic Compounds								
Benzene	ND	ND	ND	ND	0.5	5.0	5.0	5.0
Ethylbenzene	ND	ND	ND	ND	70	1,600	1,600	1,600
Toluene	ND	ND	ND	ND	100	680	680	680
Total Xylenes	ND	ND	ND	ND	1,000	160,000	1,600	850,000
Carbon Disulfide	ND	ND	ND	ND	400	400	400	400
Semivolatile Organic Compounds								
2,4-Dimethylphenol	ND	ND	ND	ND	70	1,600	1,600	1,600
2-Methylphenol	ND	ND	ND	ND	3.8	3,900	3,900	3,900
4-Methylphenol	ND	ND	ND	ND	3.8	390	390	390
Acenaphthene	ND	ND	ND	ND	300	4,700	4,700	4,700
Acenaphthylene	ND	ND	ND	ND	130	2,300	2,300	2,300
Anthracene	ND	ND	ND	ND	500	23,000	23,000	23,000
Benzo(a)anthracene	ND	ND	ND	ND	5	12	12	12
Benzo(a)pyrene	ND	ND	ND	ND	1.64	1.6	7.8	82
Benzo(b)fluoranthene	ND	ND	ND	ND	5	12	78	820
Benzo(g,h,i)perylene	ND	ND	ND	ND	500	2,300	2,300	2,300
Benzo(k)fluoranthene	ND	ND	ND	ND	5	120	780	8,200
Chrysene	ND	ND	ND	ND	5	1,200	7,840	82,000
Dibenzo(a,h)anthracene	ND	ND	ND	ND	2	12	78	820
Fluoranthene	ND	ND	ND	ND	500	3,100	82,000	17,000
Fluorene	ND	ND	ND	ND	360	3,100	82,000	17,000
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	5	12	78	820
Naphthalene	ND	ND	ND	ND	100	100	100	100
Phenanthrene	ND	ND	ND	ND	110	2,300	61,000	13,000
Phenol	ND	ND	ND	ND	400	47,000	47,000	47,000
Pyrene	ND	ND	ND	ND	500	2,300	61,000	13,000
Inorganic Compounds								
Antimony	ND	ND	ND	ND	4	31	31	31
Arsenic	25	2.5	2.9	ND	25 / 20 #	25 / 61 #	38	41
Barium	190	49	220	460	1,000	5,400	5,400	5,400
Beryllium	1.5	2.6	0.77	4.8	2 / 2.6 #**	160	160	160
Cadmium	2.4	2.2	2.4	27	2.4	39	39	39
Chromium	37	43	63	80	100	230	1,200	1,200
Copper	170	37	27	71	170	3,100	3,100	3,100
Cyanide, Total	4.8	1.3	1.5	ND	20	1,600	1,600	1,600
Lead	280	19	59	7.8	280 / 75 #	400	1,100	1,100
Mercury	0.28	0.057	0.38	0.028	0.5	24	24	24
Nickel	10	5.5	9.6	28	50	1,600	1,600	1,600
Zinc	330	30	45	140	330 / 100 #	23,000	23,000	23,000

Notes:
Values listed in milligrams/kilogram (mg/Kg)
Values rounded to two significant digits
The RRS was reported as values for two soil depths; 0-2 ft. and >2 ft.
* Soil Delineation Standard
** Background calculation is higher than RRS

Table 2-1
Site-Specific Constituents of Interest and Natural Attenuation Parameters
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Volatile Organic Compounds	Semivolatile Organic Compounds	Inorganic Compounds	Monitored Natural Attenuation Parameters
Benzene	Acenaphthene	Antimony	Dissolved Gases (O_2, N_2, CO, CO_2, Methane)
Ethylbenzene	Acenaphthylene	Arsenic	Ferrous Iron
Toluene	Anthracene	Barium	Nitrate
Total Xylenes	Benzo[a]anthracene	Beryllium	Sulfate
Carbon Disulfide	Benzo[a]pyrene	Cadmium	Sulfide
	Benzo[b]fluoranthene	Chromium	Iron
	Benzo[g,h,i]perylene	Copper	
	Benzo[k]fluoranthene	Lead	
	Chrysene	Nickel	
	Dibenz(a,h)anthracene	Zinc	
	2,4-Dimehylphenol	Cyanide (Total)	
	Fluoranthene	Mercury	
	Fluorene		
	Indeno[1,2,3-cd]pyrene		
	2-Methylphenol		
	3 & 4 Methylphenol		
	Naphthalene		
	Phenanthrene		
	Phenol		
	Pyrene		

Table 3-1
Former Macon Iron & Paper Company
2013 Soil Analytical Results
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Sample ID	Depth BGS (ft)	Date Sampled	Benzene	Toluene	Ethylbenzene	Xylenes, Total	Chloromethane
		Type 1 RRS	0.5	100	70	1,000	0.04
DDSB-1	0-2	3/12/13	--	0.00080 J	--	--	--
	12-13	3/12/13	--	--	--	--	--
DDSB-2	0-2	3/12/13	--	--	--	--	--
	9-11	3/12/13	--	--	--	--	--
DDSB-3	0-2	3/13/13	--	--	--	--	--
	12-14	3/13/13	--	--	--	--	--
DDSB-4	0-2	3/13/13	--	--	--	--	--
	12-14	3/13/13	--	--	--	--	--
DDSB-5	0-2	3/13/13	--	--	--	--	--
	8-10	3/14/13	--	--	--	--	--
DDSB-6	0-2	3/14/13	--	--	--	--	--
	16-20	3/14/13	--	--	--	--	--
DDSB-7	0-2	3/14/13	--	--	--	--	--
	11-13	3/14/13	--	--	--	--	--
DDSB-8	0-2	3/14/13	**2.0**	**9.4**	**1.2**	11	**0.095 J**
	8-11	3/14/13	--	--	--	--	--
DDSB-9	0-2	3/14/13	**2.8 J**	**17**	1.8 J	**24**	--
	10-12	3/14/13	--	--	--	--	--
DDSB-10	0-2	3/12/13	**5.7**	**27**	**2.6**	**34**	--
	12-14	3/12/13	--	--	--	--	--
DDSB-11	0-2	3/12/13	**0.49**	**3.1**	**0.37**	**5.3**	--
	12-14	3/12/13	--	--	--	--	--
DDSB-12	0-2	3/12/13	**0.10 J**	**0.68**	0.070 J	**0.85**	--
	12-13	3/12/13	**0.064 J**	**2.1**	0.10 J	**1.1**	--

Sample ID	Depth BGS (ft)	Date Sampled	Acenaphthene	Acenaphthylene	2,4-Dimethylphenol	Benzo[a]pyrene	Anthracene	Benzo(a) anthracene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Indeno(1,2,3-cd) pyrene	3 & 4 Methlyphenol	Napthalene	Phenanthrene	Pyrene
		Type 1 RRS	300	130	70	1.64	500	5	5	500	5	5	2	500	5	3.8	100	110	500
DDSB-1	0-2	3/12/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12-13	3/12/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DDSB-2	0-2	3/12/13	--	--	--	**0.11**	--	**0.12**	**0.15**	**0.1**	**0.068**	**0.16**	0.031 J	**0.16**	**0.072**	--	**1.1**	--	**0.17**
	9-11	3/12/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DDSB-3	0-2	3/13/13	0.019 J	--	--	0.032 J	--	**0.039**	**0.047**	0.026 J	0.019 J	**0.047**	--	**0.069**	0.020 J	--	**0.13**	**0.11**	**0.069**
	12-14	3/13/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DDSB-4	0-2	3/13/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12-14	3/13/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DDSB-5	0-2	3/13/13	--	--	--	0.023 J	--	0.023 J	0.030 J	0.017 J	0.012 J	0.027 J	--	0.022 J	0.015 J	--	0.022 J	**0.037**	0.035 J
	8-10	3/14/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DDSB-6	0-2	3/14/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	16-20	3/14/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DDSB-7	0-2	3/14/13	--	--	--	**0.24**	--	--	--	--	--	**0.34**	**0.054**	**0.44**	**0.13**	--	**0.97**	**0.92**	**0.43**
	11-13	3/14/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DDSB-8	0-2	3/14/13	**0.045**	--	0.19 J	**0.26**	**0.20**	**0.42**	**0.36**	**0.25**	**0.16**	**0.52**	**0.068**	**0.55**	**0.11**	0.11 J	**5.3**	**2.3**	**0.56**
	8-11	3/14/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DDSB-9	0-2	3/14/13	--	--	--	**0.21**	**0.1**	**0.37**	**0.28**	**0.18**	**0.13**	**0.48**	**0.073**	**0.49**	**0.084**	--	**5.9**	**2.2**	**0.46**
	10-12	3/14/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DDSB-10	0-2	3/12/13	0.025 J	--	--	**0.22**	**0.070**	**0.39**	**0.32**	**0.18**	**0.13**	**0.44**	**0.056**	**0.49**	**0.1**	--	--	**2.4**	**0.53**
	12-14	3/12/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DDSB-11	0-2	3/12/13	0.016 J	--	--	**0.24**	--	**0.28**	**0.34**	**0.19**	**0.14**	**0.30**	**0.056**	**0.45**	**0.15**	--	**1.6**	**1.0**	**0.49**
	12-14	3/12/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DDSB-12	0-2	3/12/13	0.069	0.038 J	--	**0.57**	**0.16**	**0.63**	**0.68**	**0.41**	**0.35**	**0.63**	**0.12**	**1.3**	**0.34**	--	**1.1**	**1.5**	**1.0**
	12-13	3/12/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Sample ID	Depth BGS (ft)	Date Sampled	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury	Cyanide
		Type 1 RRS	4	25	1000	2	2.4	100	170	280	50	330	0.5	20
DDSB-1	0-2	3/12/13	--	**3.3**	**73**	**0.67**	--	**19**	**6.7**	**19**	**6.7**	**20**	**0.061**	--
	12-13	3/12/13	--	1.0 J	**11**	0.17 J	--	**7.3**	**4.7**	**4.0**	3.1 J	**16**	**0.036**	--
DDSB-2	0-2	3/12/13	--	**7.5**	**130**	**0.46**	0.31 J	**6.3**	**23**	**130**	**5.5**	**120**	**0.41**	**0.82**
	9-11	3/12/13	--	1.0 J	**31**	0.33 J	--	**17**	**11**	**12**	4.1 J	**19**	**0.043**	--
DDSB-3	0-2	3/13/13	1.3 J	**4.2**	**52**	0.17 J	--	**28**	**66**	**78**	**19**	**230**	**0.023**	--
	12-14	3/13/13	--	1.2 J	**100**	0.38 J	--	**12**	**8.8**	**5.9**	3.9 J	**12**	--	--
DDSB-4	0-2	3/13/13	--	0.77 J	**3.0**	0.37 J	--	**12**	**7.0**	**7.1**	4.1 J	**12**	--	--
	12-14	3/13/13	--	--	**3.6**	0.36 J	--	**9.9**	**11**	**4.4**	1.5 J	**4.5**	--	--
DDSB-5	0-2	3/13/13	--	0.71 J	**8.6**	0.49	--	**22**	**11**	**5.2**	1.4 J	**21**	0.012 J	--
	8-10	3/14/13	--	--	**4.8**	0.12 J	--	**3.9**	2.3 J	**5.6**	1.1 J	**6.0**	--	--
DDSB-6	0-2	3/14/13	--	1.0 J	**3.2**	0.21 J	--	**21**	**5.4**	**5.7**	0.66 J	**4.1**	0.015 J	--
	16-20	3/14/13	--	1.8 J	**150**	**1.4**	--	**6.5**	**9.9**	**7.2**	**8.0**	**45**	--	--
DDSB-7	0-2	3/14/13	--	**14**	**240**	0.84 J	--	**10**	**40**	**29**	**12**	**69**	**0.11**	**0.87**
	11-13	3/14/13	--	1.4 J	**80**	**0.55**	--	**30**	**15**	**13**	**6.4**	**30**	0.010 J	--
DDSB-8	0-2	3/14/13	--	**11**	**58**	0.41 J	--	**5.8**	**13**	**23**	4.7 J	**28**	**0.062**	**0.65**
	8-11	3/14/13	0.77 J	1.8 J	**36**	0.35 J	--	**24**	**9.9**	**11**	**5.0**	**21**	**0.028**	--
DDSB-9	0-2	3/14/13	--	**11**	**83**	0.51 J	--	**11**	**18**	**52**	5.9 J	**20**	**0.13**	--
	10-12	3/14/13	--	**2.5**	**54**	**0.55**	--	**33**	**15**	**17**	**6.2**	**30**	--	--
DDSB-10	0-2	3/12/13	--	**6.9**	**62**	**0.052**	--	**20**	**17**	**32**	**7.1**	**32**	**0.094**	--
	12-14	3/12/13	--	0.62 J	**10**	0.16 J	--	**6.3**	**4.1**	**5.0**	2.5 J	**7.9**	0.020 J	--
DDSB-11	0-2	3/12/13	--	**8.8**	**180**	**0.65**	--	**16**	**36**	**120**	**6.6**	**37**	**0.53**	0.36 J
	12-14	3/12/13	--	1.2 J	**14**	0.25 J	--	**17**	**6.6**	**6.6**	3.5 J	**14**	0.019 J	--
DDSB-12	0-2	3/12/13	--	6.0	**110**	**0.55**	--	**31**	**22**	**59**	**7.4**	**60**	**0.20**	--
	12-13	3/12/13	--	1.8 J	**18**	0.26 J	--	**6.3**	**6.5**	**4.9**	2.9 J	**12**	**0.061**	--

Notes:
All concentrations reported in mg/Kg
-- Analyte not detected in sample; laboratory detection limit is less than Type 1 RRS
J = Result is less than the Reporting Limit of the analytical method but greater than or equal to the Method Detection Limit. The concentration shown is an approximate value.
NR = Not a HSRSA-regulated substance.
Bold - Greater than Type 1 (default, non-residential) risk reduction standard
Bold and highlighted = greater than Type 1

Table 3-2
Alluvial Groundwater Monitoring Network and Well Construction
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Monitoring Well I.D.	Hydrogeologic Unit	Ground Surface Elevation	Top of Casing Elevation	Screened Interval	Screened Interval (ft AMSL)	
		(ft AMSL)	(ft AMSL)	(ft bgs)	Top	Bottom
AMW-2	Alluvium	321.01	320.80	5 - 15	316.01	306.01
AMW-6	Alluvium	323.17	326.42	8 - 18	315.17	305.17
AMW-11	Alluvium	324.40	324.10	5 - 15	319.40	309.40
AMW-12	Alluvium	322.90	322.56	10 - 20	312.90	302.90
AMW-13	Alluvium	328.90	328.65	10 - 20	318.90	308.90
AMW-14	Alluvium	323.50	326.28	5 - 20	318.50	303.50
AMW-15	Alluvium	322.70	325.42	6 - 21	316.70	301.70
MW-08	Alluvium	307.70	307.43	9 - 19	298.70	288.70
MW-10	Alluvium	306.70	306.57	7.5 - 17.5	299.20	289.20
MW-11	Alluvium	299.80	299.45	5 - 12	294.80	287.80
MW-12R	Alluvium	296.80	297.11	4.5 - 14.5	292.30	282.30
MW-12IR	Intermediate	296.90	297.08	11 - 21	285.90	275.90
MW-14	Alluvium	295.50	295.28	3 - 15	292.50	280.50
MW-14I	Intermediate	295.30	295.04	19 - 24	276.30	271.30
MW-15	Alluvium	300.50	300.31	3 - 14.5	297.50	286.00
MW-21	Alluvium	294.30	293.79	3 -10	291.30	284.30
MW-23	Alluvium	292.90	292.54	5 - 20	287.90	272.90
MW-26	Alluvium	287.90	287.53	5 - 20	282.90	267.90
MW-28	Alluvium	288.50	288.07	2 - 17	286.50	271.50
MW-101	Alluvium	303.20	307.10	5 - 15	298.20	288.20
MW-102	Alluvium	297.80	301.52	5 - 10	292.80	287.80
MW-103	Alluvium	309.46	312.91	10 - 20	299.46	289.46
MW-104	Alluvium	295.92	295.78	5 - 20	290.92	275.92
MW-104I	Intermediate	295.85	295.72	15 - 20	280.85	275.85
MW-105	Alluvium	302.99	302.73	15 - 25	287.99	277.99
MW-106	Alluvium	308.10	310.95	9 - 19	299.10	289.10
MW-107	Alluvium	307.42	307.16	8 - 18	299.42	289.42
MW-108	Alluvium	318.64	318.25	10 - 20	308.64	298.64
MW-109	Alluvium	314.47	314.07	13.5 - 23.5	300.97	290.97
MW-205	Alluvium	321.68	321.32	14 - 29	307.68	292.68
MW-400	Alluvium	305.10	307.99	6 - 16	299.10	289.10
MW-401	Alluvium	303.50	306.48	6 - 16	297.50	287.50

ft AMSL = feet above mean sea level
ft bgs = feet below ground surface

Table 3-3

Depths to Groundwater and Groundwater Elevations -
Alluvial Monitoring Wells
Feburary 19, 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Monitoring Well	Top of Casing Elevation (ft AMSL)	Depth to Groundwater February 19, 2018 (ft BTOC)	Groundwater Elevation February 19, 2018 (ft AMSL)
AMW-2	320.80	7.55	313.25
AMW-6	326.42	12.02	314.40
AMW-11	324.10	8.67	315.43
AMW-12	322.56	10.42	312.14
AMW-13	328.65	13.60	315.05
AMW-14	326.28	10.13	316.15
AMW-15	325.42	10.38	315.04
MW-08	307.43	13.16	294.27
MW-10	306.57	9.12	297.45
MW-11	299.45	3.84	295.61
MW-12R	297.11	4.11	293.00
MW-12IR	297.08	7.98	289.10
MW-14	295.28	6.21	289.07
MW-14I	295.04	6.52	288.52
MW-15	300.31	6.59	293.72
MW-21	293.79	3.91	289.88
MW-23	292.54	10.65	281.89
MW-26	287.53	0.86	286.67
MW-28	288.07	1.66	286.41
MW-101	307.10	10.40	296.70
MW-102	301.52	8.17	293.35
MW-103	312.91	15.19	297.72
MW-104	295.78	5.81	289.97
MW-104I	295.72	6.45	289.27
MW-105	302.73	5.76	296.97
MW-106	310.95	13.42	297.53
MW-107	307.16	9.78	297.38
MW-108	318.25	7.14	311.11
MW-109	314.07	7.62	306.45
MW-205	321.32	7.07	314.25
MW-400	307.99	13.73	294.26
MW-401	306.48	12.6	293.88

Notes:

ft AMSL - feet Above Mean Sea Level

ft BTOC - feet Below Top of Casing

All depths to water are listed in feet below top of casing (ft BTOC).

All casing and groundwater elevations are listed in feet above mean sea level (ft AMSL).

Table 3-4
Seepage Velocity Calculations
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Hydrogeologic Unit	Portion of Site	Hydraulic Conductivity (ft/day)	Porosity (unitless)	February 19, 2018		Monitoring wells used for gradient calculation
				Gradient	Velocity (ft/day)	
Alluvial	Western	4.75	2.50E-01	5.75E-02	1.09E+00	MW-109 and MW-08
Alluvial	Eastern	4.75	2.50E-01	1.38E-02	2.62E-01	MW-102 and MW-28
Bedrock*	Western	1.37	1.42E-02	3.4E-02	3.29	MW-08D; MW-108D; and MW-300D
Bedrock*	Western	1.37	6.00E-01	3.4E-02	0.08	MW-08D; MW-108D; and MW-300D
Bedrock*	Western	2.58	1.42E-02	3.4E-02	6.17	MW-08D; MW-108D; and MW-300D
Bedrock*	Western	2.58	6.00E-01	3.4E-02	0.15	MW-08D; MW-300D; and MW-308D
Bedrock*	Eastern	1.37	1.42E-02	2.0E-02	1.94	MW-08D; MW-300D; MW-306D
Bedrock*	Eastern	1.37	6.00E-01	2.0E-02	0.05	MW-08D; MW-300D; MW-306D
Bedrock*	Eastern	2.58	1.42E-02	2.0E-02	3.63	MW-08D; MW-300D; MW-306D
Bedrock*	Eastern	2.58	6.00E-01	2.0E-02	0.09	MW-08D; MW-300D; MW-306D

*Bedrock porosity range taken from Applied Hydrogeology 4th Ed.
Multiple bedrock gradients are presented from different areas of the site.
Alluvial porosity used in velocity calculation is from the FFS, 2008.

Vs=Ki/n
where:
Vs=seepage velocity (Velocity)
K=hydraulic conductivity
i=horizontal hydraulic gradient (Gradient)
n=porosity

Table 3-5
Bedrock Groundwater Monitoring Network and Well Construction
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Monitoring Well I.D.	Hydrogeologic Unit	Ground Surface Elevation	Top of Casing Elevation	Screened or Open Borehole Interval	Screened or Open Borehole Interval (ft AMSL)	
		(ft AMSL)	(ft AMSL)	(ft bgs)	Top	Bottom
MW-08D*	Bedrock	307.75	307.52	38 - 53	269.75	254.75
MW-12DRR	Bedrock	296.81	299.71	42 - 52	254.81	244.81
MW-12DD	Bedrock (Deep)	297.10	297.02	92.5 - 97.5	204.60	199.60
MW-22D*	Bedrock	297.20	296.74	44 - 66	253.20	231.20
MW-23D*	Bedrock	292.80	292.13	23 - 35.8	269.80	257.00
MW-24D*	Bedrock	292.60	292.30	30.5 - 40.5	262.10	252.10
MW-26D*	Bedrock	287.80	287.57	31 - 42	256.80	245.80
MW-27D*	Bedrock	288.53	288.48	43.5 - 48.5	245.03	240.03
MW-27DD*	Bedrock (Deep)	288.74	288.65	105 - 115	183.74	173.74
MW-108D*	Bedrock	318.40	318.30	48.5 - 58.5	269.90	259.90
MW-110D*	Bedrock	295.97	295.87	28 - 33	267.97	262.97
MW-111D*	Bedrock	295.78	295.78	32.8 - 46.5	262.98	249.28
MW-112D*	Bedrock	289.70	289.70	25.7 - 35.2	264.00	254.50
MW-113D*	Bedrock	293.80	293.80	29.5 - 39.5	264.30	254.30
MW-114D*	Bedrock	298.10	298.10	45 - 55.3	253.10	242.80
MW-200DR*	Bedrock	295.61	295.27	27.5 - 41.5	-27.50	-41.50
MW-204D*	Bedrock	296.33	296.30	30.5 - 47.5	265.83	248.83
MW-205D*	Bedrock	295.42	295.40	28 - 43	267.42	252.42
MW-205DD	Bedrock (Deep)	294.80	294.58	90-100	204.80	194.80
MW-206D*	Bedrock	295.68	295.70	30.95 - 45.95	264.73	249.73
MW-207D*	Bedrock	296.14	296.10	31.6 - 46.6	264.54	249.54
MW-300D	Bedrock	301.26	301.02	33 - 43	268.26	258.26
MW-301D	Bedrock	302.91	305.76	36-46	266.91	256.91
MW-302D	Bedrock	299.24	301.93	35-45	264.24	254.24
MW-302DD	Bedrock (Deep)	298.80	301.79	70-100	228.80	198.80
MW-304D	Bedrock	300.80	303.55	39 - 62	261.80	238.80
MW-305D	Bedrock	297.50	297.22	34 - 41	263.50	256.50
MW-306D	Bedrock	294.20	293.93	31 - 50	263.20	244.20
MW-307D	Bedrock	295.30	295.15	34 - 58	261.30	187.30
MW-308D	Bedrock	325.00	324.70	72 - 108	253.00	278.00
MW-309D	Bedrock	297.50	297.45	35-45	262.50	252.50

ft AMSL = feet above mean sea level
ft bgs = feet below ground surface

Table 3-6
Depths to Groundwater and Groundwater Elevations - Bedrock Monitoring Wells
February 19, 2018

Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Monitoring Well	Top of Casing Elevation (ft AMSL)	Depth to Groundwater February 19, 2018 (ft BTOC)	Groundwater Elevation February 19, 2018 (ft AMSL)	DNAPL Thickness February 19, 2018 (ft)
MW-08D	307.52	11.43	296.09	
MW-12DRR	299.71	9.57	290.14	
MW-12DD	297.02	15.20	281.82	
MW-22D	296.74	12.25	284.49	
MW-23D	292.13	10.65	281.48	
MW-24D	292.30	4.77	287.53	
MW-26D	287.57	1.26	286.31	
MW-27D	288.48	7.53	280.95	
MW-27DD	288.65	7.70	280.95	
MW-108D	318.30	11.71	306.59	
MW-110D	295.97	7.27	288.70	
MW-111D	295.78	6.98	288.80	1.85
MW-112D	289.70	4.79	284.91	
MW-113D	293.80	8.17	285.63	
MW-114D	298.10	7.79	290.31	
MW-200DR	295.27	5.81	289.46	
MW-204D	296.30	7.48	288.82	
MW-205D	295.40	6.60	288.80	
MW-205DD	294.58	13.31	281.27	
MW-206D	295.70	6.64	289.06	
MW-207D	296.10	6.82	289.28	
MW-300D	301.02	4.75	296.27	
MW-301D	305.76	11.94	293.82	
MW-302D	301.93	13.49	288.44	
MW-302DD	301.79	21.30	280.49	
MW-304D	303.55	15.86	287.69	
MW-305D	297.22	16.51	280.71	
MW-306D	293.93	6.43	287.50	
MW-307D	295.15	8.31	286.84	
MW-308D	324.70	18.22	306.48	
MW-309D	298.04	9.80	288.24	~ 1.5 - 7

Notes:

ft AMSL - feet Above Mean Sea Level

ft BTOC - feet Below Top of Casing

All depths to water are listed in feet below top of casing (ft BTOC).

All casing and groundwater elevations are listed in feet above mean sea level (ft AMSL).

DNAPL - Dense Non-Aqueous Phase Liquid

Table 3-7
Summary of Hydrophysical Logging Results - 2005
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Well ID	Water Bearing Interval #	Interval of Flow (feet)	Interval- Specific Flow Rate During Ambient Testing (gpm)	Interval- Specific Flow Rate During Pumping (gpm)	Interval- Specific Hydraulic Conductivity[1] (ft/day)
MW-09D	1	46.2 - 46.4	0.0045	0.14	4.05E+00
	2	46.6 - 46.8	0.004	0.1	2.87E+00
	3	47.5 - 47.6	0.002	0.02	1.08E+00
MW-108D	1	49.1 - 49.2	0.0006	0.009	1.57E+00
	2	53.2 - 53.3	0.0013	0.17	3.16E+01
	3	54.1 - 54.2	0.0009	0.091	1.69E+01
MW-110	1	28.3 - 28.4	0.0024	1.37	1.73E+02
	2	33.9 - 34.5	0.016	1.13	2.34E+01
	3	40.5 - 40.9	0.0009	0.223	7.01E+00
	4	45.2 - 45.5	0	0.112	4.71E+00
	5	47.9 - 48.0	0	0.005	6.31E-01
	6	48.9 - 49.0	0	0.018	2.27E+00
MW-111	1	32.8 - 33.4	0.0008	0.73	3.27E+01
	2	35.3 - 35.4	0.004	0.035	8.35E+00
MW-112D	1	26.0 - 26.1	0.00016	0.748	1.27E+02
	2	26.5 - 26.7	0.00016	1.748	1.49E+02
	3	27.2 - 27.3	0.00016	0.045	7.62E+00
	4	27.8 - 27.9	0	1.045	1.78E+02
	5	30.3 - 30.4	0.0001	2.045	3.48E+02
MW-113D	1	33.8 - 33.9	0.0001	0.061	2.81E+01
	2	35.3 - 35.4	0.022	0.397	1.75E+02
MW-114D	1	47.5 - 47.6	0.01	0.43	4.46E+01
IW-01	1	40.9 - 41.2	0.0025	7.2	3.02E+02
	2	42.6 - 42.8	0	1.42	8.95E+01
	3	50.9 - 51.1	0.0003	0.141	8.86E+00
IW-02	1	47.4 - 47.7	0.0034	7.4	5.14E+02
	2	50.0 - 50.1	0.0029	0.665	1.38E+02
	3	50.8 - 50.9	0.0007	0.549	1.14E+02
	4	52.6 - 52.7	0	0.125	2.61E+01
IW-03	1	45.2 - 45.3	0.0032	0.914	8.46E+01
	2	52.1 - 52.2	0.0013	13.9	1.29E+03
	3	52.7 - 52.8	0.004	0.209	1.90E+01

1 - Hydraulic conductivity and transmissivity are based on single-well drawdown data, a porus-medium equivilent model and Hvorslev's 1951 porosity equation.

SOURCE: COLOG, 2005; included as Appendix D of the 2006 CAP-A (RETEC, 2006)

gpm = gallon per minute

ft = feet

Table 4-1
Western Portion - Extent of Residual Impacts in Soil
Atlanta Gas Light Company
Former Manufactured Gas Plant
Macon, Georgia

Boring ID	Type of BPLM Impact	Surface Elevation (ft)	Depth to Top of Impact	Depth to Bottom of Impact	Thickness of Impacts	Saprolite Elevation (ft)	Location
AMW-1	None	324.4			0	--	Terminal Ave & NS
AMW-2	None	321.0			0	--	Terminal Ave & NS
AMW-3	Blebs	323.0	19	19.1	0.1	--	Terminal Ave & NS
AMW-4	Residual	323.1	17.5	17.6	0.1	--	Western Portion
AMW-5	Residual	321.7			0	--	Western Portion
AMW-6	None	323.2	0	24	24	299	Western Portion
AMW-7	Residual	322.2	14	15	1	303	Western Portion
	Staining		18	18.1	0.1		
AMW-8	Blebs	318.1	15.5	16	0.5	299	Western Portion
AMW-9	None	314.6			0	--	Western Portion
AMW-10	Wood Debris	323.6			0	--	Western Portion
BGS-1	None	324.1			0	296	Western Portion
BGS-2	None	324.8			0	302	Terminal Ave & NS
BGS-3	None	321.1			0	301*	Terminal Ave & NS
CB-2	Residual	323.4	19	21	2	299	Terminal Ave & NS
CB-3	Trace Residual	322.8	12	16	4	300	Western Portion
CB-4	None	324.0			0	303	Western Portion
CB-5	None	324.0			0	303	Western Portion
CB-6	Blebs	322.5	17	17.1	0.1	301	Western Portion
CB-7	Staining	323.0	16	16.1	0.1	302	Western Portion
IW-5	Weathered Stringers	312.2	16	18	2	295	6th & Mulberry
IW-6	Stringers	313.9	10	12	2	294	6th & Mulberry
IW-7	Stringers & Residual	313.0	10	16.5	6.5	296	6th & Mulberry
IW-8	Weathered Blebs	312.0	9	12	3	294	6th & Mulberry
	Stringers & Residual		16.5	17	0.5		
IW-9	Blebs & Stringers	311.6	11.5	16	4.5	295	6th & Mulberry
IW-10	Stringers	311.1	10	11.8	1.8	291	6th & Mulberry
			17	18	1		
IW-11	Blebs	310.8	13	17	4	292	6th & Mulberry
IW-12	None	310.2			0	291	6th & Mulberry
IW-13	Blebs	314.4	12.5	14	1.5	296	6th & Mulberry
IW-14 / MW-203	None	313.1			0	291	6th & Mulberry
IW-15	None	315.7			0	296	6th & Mulberry
IW-16	Oil-like Material	311.4	17	18	1	290	6th & Mulberry
IW-17	Staining	310.6	16	20	4	289	6th & Mulberry
IW-18	Staining	309.8	11	19.5	8.5	290	6th & Mulberry
IW-19	Staining	309.3	16	17	1	292	6th & Mulberry
IW-20	Very Weather Stringers	308.7	13	13.5	0.5	291	6th & Mulberry
IW-21	Staining	307.6	14.5	17.5	3	284	6th & Mulberry
IW-22	Stringers	304.3	17.2	17.8	0.6	286	MW-101 Area
IW-23	None	302.7			0	288	MW-101 Area
IW-24	None	306.3			0	286	6th & Mulberry
IW-25	Blebs & Stringers	323.2	18.2	20	1.8	292	Western Portion
IW-26	Blebs & Stringers	323.3	18.5	23.5	5	293	Western Portion
	Weathered Stringers		28.5	30	1.5		
IW-27	Blebs	323.0	21	25	4	290	Western Portion
IW-28	Blebs & Stringers	323.2	25.7	34.8	9.1	285	Western Portion
IW-29	Blebs & Stringers	319.5	24	28	4	290	Western Portion
IW-30	Blebs & Stringers	323.6	19.5	29.5	10	296*	Western Portion
IW-31	Blebs & Stringers	323.8	18.1	22.5	4.4	296*	Western Portion
IW-32	Blebs & Stringers	323.7	19.5	22.5	3	285	Western Portion
	Weathered Blebs		35.5	35.6	0.1		
IW-33	Blebs & Residual	323.6	19.5	24	4.5	293	Western Portion
IW-34	Stringers & Residual	323.8	19.6	26.3	6.7	296	Western Portion
IW-35	Blebs	323.4	16	21.5	5.5	293	Western Portion
IW-36	Blebs & Stringers	324.0	21.5	30	8.5	292	Western Portion
IW-37	Blebs & Stringers	323.8	20	29.5	9.5	289	Western Portion
IW-38	Blebs & Stringers	323.8	21.5	34	12.5	289	Western Portion
IW-39	Weathered Blebs	323.9	21	23	2	286	Western Portion
IW-40	Weathered Stringer	323.8	22.5	22.6	0.1	286	Western Portion
	Slight Staining		22.5	23	0.5		
IW-41	Residual	323.2	20.5	23.5	3	291	Western Portion
IW-42	Stringers & Residual	323.1	19	23.8	4.8	294	Western Portion
IW-43	Staining	313.1	18	20.5	2.5	295	Western Portion
	Weathered Stringer		24.2	24.3	0.1		
IW-44	Blebs, Stringers, Residual	322.9	20	24	4	295	Western Portion
IW-45	Stringers	323.1	20	24	4	289	Western Portion
IW-46	Blebs & Stringers	323.1	25	28	3	288	Western Portion
IW-47	Blebs	323.1	16.5	16.6	0.1	292	Western Portion
			25.5	27	1.5		
IW-48	Very Weathered Blebs	321.5	25	27	2	288	Western Portion
	Trace Staining		19.6	19.7	0.1		
			28	33	5		
IW-49	Stringers	322.2	16.8	24.5	7.7	290	Western Portion
IW-50	Stringers	321.8	19.2	19.3	0.1	293	Western Portion
IW-51	None	320.9			0	288	Western Portion
IW-52	Blebs, Stringers, Residual	322.7	16.5	23	6.5	288	Western Portion
IW-53	Weathered Blebs	322.9	19	20	1	293	Western Portion
IW-54	Bleb	322.7	17.4	17.5	0.1	295	Western Portion
IW-55	Blebs	322.6	16.5	16.6	0.1	295	Western Portion
			21.9	23	1.1		
IW-56	Blebs	322.7	20.5	21	0.5	294	Western Portion
IW-57	Blebs & Residual	322.5	13.7	18	4.3	295	Western Portion
IW-58	Blebs & Residual	322.5	13.5	20.9	7.4	294	Western Portion
IW-59	Blebs & Residual	322.5	15.9	20	4.1	295*	Western Portion
IW-60	Blebs & Residual	322.2	18.1	19	0.9	297*	Western Portion
IW-61	Blebs & Residual	322.4	17.8	21.2	3.4	291	Western Portion
IW-62	Blebs, Stringers, Residual	322.31	15.7	18	2.3	294	Western Portion
			25	27	2		
IW-63	Blebs	322.7	17.7	23.3	5.6	295	Western Portion
IW-64	Blebs & Stringers	322.1	17.7	22.3	4.6	296	Western Portion
IW-65	Blebs & Stringers	320.5	15.2	20	4.8	295	Western Portion
	Very Weathered Stringer		25.5	25.6	0.1		

Table 4-1
Western Portion - Extent of Residual Impacts in Soil
Atlanta Gas Light Company
Former Manufactured Gas Plant
Macon, Georgia

Boring ID	Type of BPLM Impact	Surface Elevation (ft)	Depth to Top of Impact	Depth to Bottom of Impact	Thickness of Impacts	Saprolite Elevation (ft)	Location
IW-66	Blebs & Stringers	320.4	15.9	24.6	8.7	294	Western Portion
IW-67	Very Weathered Blebs	322.3	19.2	19.5	0.3	294	Western Portion
	Blebs & Stringers		22.2	27.5	5.3		
IW-68	Blebs	322.7	23.7	26.6	2.9	293	Western Portion
IW-69	Blebs	322.3	15.5	15.8	0.3	296	Western Portion
			17.6	17.8	0.2		
IW-70	Staining	322.4	14.5	17	2.5	295	Western Portion
	Weathered Blebs		25	25.3	0.3		
IW-71	Blebs & Stringers	322.5	16.2	22.7	6.5	293	Western Portion
IW-72	Blebs	322.4	15.9	19	3.1	295	Western Portion
IW-73	Blebs & Residual	322.5	15.7	20	4.3	296*	Western Portion
IW-74	Blebs & Stringers	322.2	18.1	20.7	2.6	292*	Western Portion
IW-75	Blebs & Stringers	322.2	17.2	21	3.8	294*	Western Portion
IW-76	Blebs & Residual	322.7	15	20.2	5.2	294*	Western Portion
IW-77	Blebs & Residual	322.5	16.7	20	3.3	295*	Western Portion
IW-78	Blebs & Residual	322.9	17.4	22.5	5.1	293	Western Portion
IW-79	Blebs & Stringers	322.9	17.4	29	11.6	293	Western Portion
IW-80	Blebs, Stringers, Residual	322.7	15.5	26.1	10.6	295	Western Portion
IW-81	Blebs & Stringers	322.34	17.8	22	4.2	293	Western Portion
			27.5	27.6	0.1		
IW-82	Blebs & Residual	322.5	18.3	24.7	6.4	294	Western Portion
IW-83	Blebs & Residual	321.4	28.5	30	1.5	290	Western Portion
IW-84	Blebs & Stringers	321.3	23.5	27.7	4.2	291	Western Portion
IW-85	Bleb	321.0	25.9	30	4.1	287	Western Portion
IW-86	None	320.9			0	287	Western Portion
IW-87	None	320.3			0	291	Western Portion
IW-88	Staining	322.7	15	19	4	293	Western Portion
IW-89	Blebs	323.0	17.5	21.7	4.2	296*	Western Portion
IW-90	Blebs & Stringers	322.88	12.7	13.3	0.6	296	Western Portion
			18	21.5	3.5		
IW-91	Blebs & Stringers	323.0	18.2	20.5	2.3	296*	Western Portion
IW-92	Blebs & Residual	322.3	18.1	22	3.9	295*	Western Portion
IW-93	Blebs & Stringers	322.4	19.5	20.5	1	293*	Western Portion
IW-94	Blebs & Stringers	322.6	18.3	23.8	5.5	295	Western Portion
IW-95	Blebs & Stringers	322.5	18.8	29	10.2	292	Western Portion
IW-96	Blebs & Residual	322.6	17.5	25	7.5	293	Western Portion
IW-97	Blebs & Stringers	322.9	22.2	22.6	0.4	288*	Western Portion
			28	28.1	0.1		
IW-98	Blebs & Stringers	322.7	25.8	29	3.2	290	Western Portion
IW-99	Blebs & Stringers	322.0	24.5	30	5.5	288	Western Portion
IW-100	Light Staining	320.5	19.2	20	0.8	288	Western Portion
IW-101	Bleb	323.8	19.8	19.9	0.1	297*	Western Portion
IW-102	Blebs & Residual	323.4	19.1	23	3.9	294	Western Portion
IW-103	Blebs, Stringers, Residual	323.5	18.3	25	6.7	294	Western Portion
IW-104	Blebs & Stringers	323.4	19.8	25	5.2	288	Western Portion
IW-105	Blebs	323.7	25.5	28.5	3	289	Western Portion
IW-106	Blebs & Residual	323.6	21.3	33.3	12	290	Western Portion
IW-107	Blebs & Stringers	323.7	27.2	30	2.8	291	Western Portion
IW-108	Blebs	323.8	22	23	1	291	Western Portion
IW-109	Bleb	323.7	21.5	21.6	0.1	288	Western Portion
IW-110	Blebs, Stringers, Residual	323.2	18.2	25.2	7	290	Western Portion
IW-111	Blebs	323.4	18	22.5	4.5	290	Western Portion
IW-112	Blebs	323.7	23.8	28.3	4.5	295	Western Portion
IW-113	Blebs	323.2	22.5	29.7	7.2	291	Western Portion
IW-114	Blebs	322.6	21.3	29	7.7	293	Western Portion
IW-115	Blebs & Stringers	323.0	25.5	27.5	2	290	Western Portion
	Weathered		30.5	32	1.5		
IW-116	Blebs	322.6	24	24.1	0.1	288	Western Portion
IW-117	Blebs & Stringers	320.1	18	19.6	1.6	289	Western Portion
IW-118	Blebs & Residual	321.3	16.1	24.5	8.4	293	Western Portion
IW-119	Blebs & Stringers	321.5	17.4	25.5	8.1	293	Western Portion
IW-120	Blebs & Stringers	320.7	15.2	26	10.8	292	Western Portion
IW-121	Blebs & Stringers	319.7	18.5	20.4	1.9	293	Western Portion
			24	24.1	0.1		
IW-122	Blebs & Stringers	320.7	16.6	28	11.4	291	Western Portion
IW-123	Blebs	320.2	16.6	21.9	5.3	295	Western Portion
			28.5	28.6	0.1		
IW-124	Blebs & Stringers	320.8	19	25	6	294	Western Portion
IW-125	Blebs & Stringers	321.3	23.5	28.8	5.3	292	Western Portion
IW-126	Blebs & Stringers	320.8	19.5	26.7	7.2	291	Western Portion
IW-127	Blebs & Stringers	320.7	17.6	26.4	8.8	291	Western Portion
IW-128	Blebs & Stringers	320.1	18.1	25	6.9	292	Western Portion
IW-129	Blebs & Residual	319.9	19.5	20	0.5	290	Western Portion
IW-130	Staining	315.1	11.5	12	0.5	293	6th & Mulberry
IW-131	Blebs, Stringers, Residual	314.2	10.3	16	5.7	294	6th & Mulberry
IW-132	Residual	313.3	14	19	5	291	6th & Mulberry
IW-133	Blebs, Stringers, Residual	313.0	10.5	13.6	3.1	294	6th & Mulberry
IW-134	Blebs	312.6	8.1	16.5	8.4	293	6th & Mulberry
IW-135	Blebs	312.2	10.7	14	3.3	288	6th & Mulberry
IW-136	Blebs & Stringers	311.7	9.2	18.5	9.3	292	6th & Mulberry
IW-137	Blebs & Stringers	311.3	8.8	12.6	3.8	288	6th & Mulberry
IW-138	Blebs	311.1	14.3	15.6	1.3	290	6th & Mulberry
	Weathered Blebs		17	20	3		
IW-139	Staining	310.3	14.5	15	0.5	286	6th & Mulberry
IW-140	Blebs	310.4	18.4	18.6	0.2	291	6th & Mulberry
IW-141	None	310.2			0	287	6th & Mulberry
IW-142	None	309.7			0	289	6th & Mulberry
IW-143	None	314.6			0	291	6th & Mulberry
IW-144	Bleb	314.2	15	19.8	4.8	289	6th & Mulberry
IW-145	Blebs & Stringers	313.8	12.3	13.8	1.5	293	6th & Mulberry
IW-146	Blebs	13.5 - 16.6	13.5	13.8	0.3	290	6th & Mulberry
IW-147	Blebs	312.9	8.2	14.8	6.6	288	6th & Mulberry
IW-148	Blebs & Residual	312.6	11.9	18.5	6.6	293	6th & Mulberry
IW-149	Blebs & Stringers	312.2	11.1	15.5	4.4	293	6th & Mulberry
IW-150	Blebs & Stringers	312.0	9.8	19.3	9.5	292	6th & Mulberry
IW-151	Staining	311.7	18	18.1	0.1	289	6th & Mulberry
IW-152	Stringers	311.5	21.5	22	0.5	291	6th & Mulberry
IW-153	Staining	313.7	13	13.1	0.1	291*	6th & Mulberry

Table 4-1
Western Portion - Extent of Residual Impacts in Soil
Atlanta Gas Light Company
Former Manufactured Gas Plant
Macon, Georgia

Boring ID	Type of BPLM Impact	Surface Elevation (ft)	Depth to Top of Impact	Depth to Bottom of Impact	Thickness of Impacts	Saprolite Elevation (ft)	Location
IW-154	Blebs	313.3	9.8	13.7	3.9	292	6th & Mulberry
IW-155	Blebs & Stringers	312.8	10.5	19.5	9	289	6th & Mulberry
IW-156	Blebs, Stringers, Residual	312.2	11.1	18.8	7.7	289	6th & Mulberry
IW-157	Blebs & Stringers	312.1	15	17.8	2.8	293	6th & Mulberry
IW-158	Blebs	311.9	14.5	18.6	4.1	289	6th & Mulberry
IW-159	Blebs	311.5	11.3	19.6	8.3	291	6th & Mulberry
IW-160	Blebs	311.4	19.8	21.4	1.6	291	6th & Mulberry
IW-161	None	311.3			0	292	6th & Mulberry
IW-162	Blebs & Stringers	312.2	14.5	17.6	3.1	290	6th & Mulberry
IW-163	Staining	322.5	15	20	5	289	Western Portion
IW-164	Blebs	322.6	26.2	26.8	0.6	291	Western Portion
IW-165	Blebs	323.5	18.8	21.5	2.7	295*	Western Portion
IW-166	Staining	323.3	15	18	3	296*	Western Portion
IW-167	Blebs	322.5	15.4	22.5	7.1	296	Western Portion
IW-168	Staining	322.8	15.1	18	2.9	295*	Western Portion
IW-169	Blebs	322.5	15.5	16.3	0.8	298*	Western Portion
IW-170	Staining	322.5	15	16	1	300*	Western Portion
IW-171	Staining	312.5	10.7	15	4.3	289	6th & Mulberry
IW-172	Blebs & Stringers	312.1	12.4	19.6	7.2	288	6th & Mulberry
IW-173	Blebs & Residual	312.0	13.2	17.9	4.7	292	6th & Mulberry
IW-174	Blebs & Stringers	311.8	14.3	18.7	4.4	292	6th & Mulberry
IW-175	Blebs & Residual	311.8	14.5	20.3	5.8	289	6th & Mulberry
IW-176	Not installed				0		
IW-177	Bleb	311.5	17.8	17.9	0.1	295	6th & Mulberry
IW-178	Blebs	311.3	15	17.1	2.1	289	6th & Mulberry
IW-179	Blebs & Residual	311.3	13.8	16.8	3	289	6th & Mulberry
IW-180	Not installed				0		
IW-181	Staining	311.0	6.5	15	8.5	288	6th & Mulberry
IW-182	Residual	311.8	17.5	18.5	1	289	6th & Mulberry
IW-183	Staining	310.9	17.5	21	3.5	289	6th & Mulberry
IW-184	None	310.4			0	287	6th & Mulberry
IW-185	Blebs	323.3	21.5	23.5	2	299*	Western Portion
IW-186	None	323.8			0	300*	Western Portion
IW-187	Bleb	317.3	13.3	13.4	0.1	290	Western Portion
	Weathered Blebs		18.1	18.2	0.1		
IW-188	Blebs & Stringers	316.6	16.5	17.7	1.2	292*	Western Portion
IW-189	None	316.4			0	290	Western Portion
IW-190	Blebs	315.5	14.5	15.4	0.9	291*	Western Portion
			20	22.1	2.1		
IW-191	Blebs	315.61	13.6	13.7	0.1	290	Western Portion
			16.9	18	1.1		
IW-192	Residual	315.4	17.9	19	1.1	291	Western Portion
IW-193	Blebs	315.8	13.2	16.8	3.6	297*	Western Portion
IW-194	None	315.0			0	297*	Western Portion
IW-195	None	315.7			0	288	Western Portion
IW-196	Blebs & Residual	315.4	18.1	18.6	0.5	291	Western Portion
IW-197	Residual	315.6	18	18.5	0.5	296*	Western Portion
IW-198	Weathered Stringer	315.5	14.5	14.6	0.1	289	Western Portion
	Residual		19.5	19.6	0.1		
IW-199	Trace Residual	315.9	19.8	22	2.2	290	Western Portion
IW-200	Blebs & Stringers	316.6	19.4	21	1.6	294	Western Portion
IW-201	Blebs	316.9	15	15.5	0.5	293	Western Portion
IW-202	Blebs & Stringers	316.2	13	15.6	2.6	293	Western Portion
IW-203	Blebs	316.2	14	14.1	0.1	288	Western Portion
			19	20	1		
IW-204	Blebs, Stringers, Residual	316.1	13.4	18.7	5.3	291	Western Portion
IW-205	Staining	316.3	7.5	12	4.5	291	Western Portion
IW-206	Weathered Blebs	317.1	13.5	14.5	1	289	Western Portion
IW-207	Blebs	317.2	16	18.7	2.7	297	Western Portion
IW-208	Blebs	316.4	13.4	20	6.6	289	Western Portion
IW-209	Blebs, Stringers, Residual	317.39	13.9	14.4	0.5	293	Western Portion
			19.9	23.8	3.9		
IW-210	Blebs	316.7	10.7	15.8	5.1	292	Western Portion
IW-211	Blebs	316.3	11.8	16	4.2	292	Western Portion
IW-212	Blebs	316.9	11.6	15.7	4.1	293*	Western Portion
IW-213	Blebs & Residual	316.6	12.8	20	7.2	293	Western Portion
IW-214	Blebs	317.0	12	16	4	293	Western Portion
IW-215	Blebs	317.1	11.3	15.4	4.1	290	Western Portion
IW-216	Staining	317.6	8	9.5	1.5	291	Western Portion
IW-217	Bleb	317.9	16.5	16.6	0.1	293*	Western Portion
IW-218	Staining	316.9	7.7	9.6	1.9	297*	Western Portion
IW-219	Blebs & Residual	316.9	8.8	16	7.2	293*	Western Portion
IW-220	Blebs & Residual	317.5	13.4	21.6	8.2	295	Western Portion
IW-221	Blebs & Residual	317.6	11.8	16.5	4.7	289	Western Portion
IW-222	Stringers & Residual	317.1	12.4	15.7	3.3	292	Western Portion
IW-223	Blebs, Stringers, Residual	317.6	11.5	14.5	3	290	Western Portion
IW-224	Blebs	317.7	13.3	15.6	2.3	294*	Western Portion
IW-225	Weathered Stringers	318.5	13	14.4	1.4	292	Western Portion
	Residual		16	19.4	3.4		
IW-226	Blebs	317.6	13	19	6	291	Western Portion
IW-227	Residual	318.0	14.3	15.8	1.5	292	Western Portion
IW-228	Blebs & Residual	318.3	14.2	18.1	3.9	297*	Western Portion
MW-303D	Blebs & Residual	322.8	19	20	1		Western Portion

Table 4-1
Western Portion - Extent of Residual Impacts in Soil
Atlanta Gas Light Company
Former Manufactured Gas Plant
Macon, Georgia

Boring ID	Type of BPLM Impact	Surface Elevation (ft)	Depth to Top of Impact	Depth to Bottom of Impact	Thickness of Impacts	Saprolite Elevation (ft)	Location
NS-1	Blebs		15	16.5	1.5		Norfolk Southern
NS-2	Blebs		15	16.5	1.5		Norfolk Southern
NS-3	Blebs		16	18	2		Norfolk Southern
NS-4	None				0		Norfolk Southern
NS-5	None				0		Norfolk Southern
NS-6	Blebs		17.8	18	0.2		Norfolk Southern
NS-7	Staining		16	18.5	2.5		Norfolk Southern
NS-8	Blebs		18.5	19	0.5		Norfolk Southern
RIB-1	None	320.1			0	298	Western Portion
SB-700	Residual	322.6	10	17.8	7.8	--	Terminal Ave
SB-702	Blebs & Residual	322.9	12.4	17.3	4.9	--	Terminal Ave
SB-703	Staining	323.4	11	14	3	--	Terminal Ave
	Bleb		17.8	17.9	0.1		
SB-704	Staining	322.9	13	15.4	2.4	--	Western Portion
	Bleb		16.3	16.4	0.1		
SB-705	Blebs	322.3	15.3	18.7	3.4	296*	Western Portion
SB-706	Blebs	321.8	14.7	18	3.3	299*	Western Portion
SB-707	Blebs and Residual	322.0	11	21.6	10.6	296*	Western Portion
SB-708	Staining	321.3	11.5	17	5.5	293*	Western Portion
	Residual		17	18	1		
SB-709	Blebs and Residual	322.9	14.7	18	3.3	298*	Western Portion
SB-710	Blebs and Residual	323.1	12	18.4	6.4	303*	Western Portion
SB-711	Blebs and Residual	322.7	14	20	6	303*	Western Portion
SB-712	Blebs and Residual	322.6	12.2	17.7	5.5	302*	Western Portion
SB-713	Blebs and Residual	322.0	13	18.5	5.5	298*	Western Portion
	Blebs and Stringers		22	22.5	0.5		
SB-714	Blebs	321.9	14.5	18.7	4.2	290*	Terminal Ave
SB-715	Blebs and Residual	322.2	10.2	20	9.8	297*	Terminal Ave
SB-716	Blebs and Residual	322.5	12.2	17.9	5.7	296*	Terminal Ave
SB-717	Staining	322.8	12	18.5	6.5	296*	Terminal Ave
	Blebs and Residual		17.8	23.2	5.4		
SB-718	Blebs and Residual	323.3	14	18.9	4.9	295*	Terminal Ave
SB-719	Blebs	321.7	14.2	15.9	1.7	297*	Norfolk Southern
SB-720	Bleb	322.0	18.2	18.3	0.1	295*	Norfolk Southern
SB-721	Trace Residual	322.6	22	22.3	0.3	298*	Norfolk Southern
SB-722	Residual	322.6	17.8	18.6	0.8	295*	Norfolk Southern
SB-723	Stringer and Residual	323.5	17.5	19.5	2	296*	Terminal Ave
SB-900	Staining	308.8	7	7.8	0.8	285	6th and Mulberry
	Trace Residual		10.1	11.8	1.7		
	Staining		12	14	2		
	Staining		18	19.3	1.3		
SB-901	Very Weathered Blebs	310.3	18.5	20	1.5	287	6th & Mulberry
SB-902	Very Weathered Blebs	310.7	21.5	22	0.5	287	6th & Mulberry
SB-903	Staining	316.2	5.7	6	0.3	301*	6th & Mulberry
SB-904	None	317.1			0	297*	6th & Mulberry
SB-905	None	323.0			0	293*	Western Portion
SB-906	None	323.1			0	293*	Western Portion
SB-907	None	322.1			0	297*	Western Portion
SB-908	None	323.6			0	299*	Western Portion
SB-909	None	323.7			0	303*	Western Portion
SB-910	None	323.5			0	299*	Norfolk Southern
SB-911	None	323.8			0	299*	Norfolk Southern
SB-912	None	325.4			0	295	Norfolk Southern
SB-913	None	326.6			0	298*	Norfolk Southern
SB-914	None	321.6			0	301*	Norfolk Southern
SB-915	None	321.1			0	297*	Western Portion
SB-916	None	320.4			0	292	Western Portion
SB-917	None	320.1			0	297*	Western Portion
SB-918	None	317.4			0	298	Western Portion
SB-919	Very Weathered Blebs	315.5	9.6	9.7	0.1	297*	Western Portion
SB-920	None	311.6			0	301	Western Portion
SB-921	None	320.1			0	288	Western Portion
SB-922	None	323.3			0	287	Western Portion
SB-923	Staining	309.3	9.5	10	0.5	286	6th & Mulberry
	Trace Residual		13.4	13.5	0.1		
SIB-1	Residual	322.7	17.5	18	0.5	299	Western Portion
SIB-2	Residual	319.4	14	15	1		Western Portion
SSB-01	Residual	323.0	14	19	5	298*	Western Portion
VIB-1	None	324.4			0	299	Western Portion
VIB-4	None	321.7			0	296	Western Portion
VIB-5	None	310.6			0	287	6th & Mulberry
VIB-6	None	322.5			0	303	Western Portion
VIB-7	None	312.8			0		6th & Mulberry
VIB-8	Staining	309.2	12	18	6	291	MUDA
VIB-9	None	312.8			0	289	Prodigy Woodworks
VIB-10	None	312.5			0	291	Prodigy Woodworks
VIB-11	Blebs	312.3	17	18.5	1.5	290	Prodigy Woodworks
VIB-12	Blebs	312.1	15.2	15.3	0.1	290	Prodigy Woodworks
			18	18.2	0.2		
VIB-13	Very Weathered Blebs	311.8	21	23	2	288	Prodigy Woodworks
VIB-14	None	312.3			0	288	Prodigy Woodworks
VIB-15	None	312.0			0	287	Prodigy Woodworks

* Elevation of refusal prior to encountering saprolite
-- Boring terminated before encountering saprolite or refusal

Table 4-2
Western Portion - Surface Soil Delineation to Type 1 RRS
VOCs
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Sample ID	Depth BGS (ft)	Date Sampled	Benzene	Ethylbenzene	Toluene	Total Xylenes	Carbon Disulfide
		Type 1 RRS	0.5	70	100	1,000	400
Delineation Borings							
SB-902	0-2	3/14/13	< 0.0040	< 0.0040	< 0.0040	< 0.0080	< 0.0040
SB-905	0-2	3/12/13	< 0.0054	< 0.0054	< 0.0054	< 0.011	< 0.0054
SB-906	0-2	3/12/13	< 0.29	< 0.29	**1.1**	**1.6**	< 0.29
SB-907	0-2	3/12/13	< 0.24	**0.29**	**1.9**	**2.8**	< 0.24
SB-908	0-2 (DUP-02)	3/12/13	< 0.0054	< 0.0054	< 0.0054	< 0.0011	< 0.0054
SB-909	0-2	3/15/13	< 0.0056	< 0.0056	< 0.0056	< 0.011	< 0.0056
SB-910	0-2	3/13/13	< 0.0045	< 0.0045	< 0.0045	< 0.0091	< 0.0045
SB-911	0-2	3/13/13	< 0.0043	< 0.0043	< 0.0043	< 0.0086	< 0.0043
SB-912	0-2	3/13/13	0.0012	< 0.0060	< 0.0060	< 0.012	< 0.0060
SB-913	0-2	3/13/13	< 0.0043	< 0.0043	< 0.0043	< 0.0086	< 0.0043
SB-914	0-2	3/13/13	< 0.0047	< 0.0047	< 0.0047	< 0.0095	< 0.0047
SB-915	0-2 (DUP-07)	3/19/13	< 0.0058	< 0.0058	< 0.0058	< 0.012	< 0.0058
SB-916	0-2	3/15/13	< 0.0044	< 0.0044	< 0.0044	< 0.0088	< 0.0044
SB-917	0-2	3/19/13	< 0.0042	< 0.0042	< 0.0042	< 0.0083	< 0.0042
SB-918	0-2	3/19/13	< 0.0039	< 0.0039	< 0.0039	< 0.0078	< 0.0039
SB-919	0-2 (DUP-09)	3/19/13	< 0.0045	< 0.0045	< 0.0045	< 0.0090	< 0.0045
SB-920	0-2	3/15/13	< 0.0047	< 0.0047	< 0.0047	< 0.0094	< 0.0047
SB-921	0-2 (DUP-10)	3/20/13	< 0.37	< 0.37	**1.5**	**2.2**	< 0.37
SB-922	0-2	3/20/13	< 0.39	< 0.39	**1.0**	**1.6**	< 0.39

Notes:
All concentrations reported in milligrams per kilogram (mg/Kg)
Bold = detected concentration
Bold + shaded = concentration exceeds Type 1 RRS

Table 4-3
Western Portion - Subsurface Soil Delineation to Type 1 RRS
VOCs
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Sample ID	Depth BGS (ft)	Date Sampled	Benzene	Ethylbenzene	Toluene	Total Xylenes	Carbon Disulfide
		Type 1 RRS	0.5	70	100	1,000	400
Delineation Borings							
SB-900	2-4 (DUP-04)	3/14/13	< 0.0048	< 0.0048	< 0.0048	< 0.0096	< 0.0048
	4-8	3/14/13	< 0.0044	< 0.0044	< 0.0044	< 0.0089	< 0.0044
	8-12	3/14/13	< 2.3	**22**	< 2.3	**55**	< 2.3
SB-901	2-4	3/14/13	< 0.0043	< 0.0043	< 0.0043	< 0.0086	< 0.0043
	4-8	3/14/13	< 0.0045	< 0.0045	< 0.0045	< 0.0091	< 0.0045
	8-12	3/14/13	< 0.0049	< 0.0049	< 0.0049	< 0.0097	< 0.0049
SB-902	2-4 (DUP-05)	3/14/13	< 0.0055	< 0.0055	< 0.0055	< 0.011	< 0.0055
	4-8	3/14/13	< 0.0046	< 0.0046	< 0.0046	< 0.0092	< 0.0046
	8-10	3/14/13	< 0.0047	< 0.0047	< 0.0047	< 0.0095	< 0.0047
SB-903	2-4	3/14/13	**0.044**	< 0.0049	< 0.0049	< 0.0098	< 0.0049
	4-8	3/14/13	**0.0074**	< 0.0044	< 0.0044	< 0.0088	< 0.0044
	8-9	3/14/13	< 0.0049	< 0.0049	< 0.0049	< 0.0098	< 0.0049
SB-904	2-4	3/14/13	< 0.0048	< 0.0048	< 0.0048	< 0.0095	< 0.0048
	4-8	3/14/13	< 0.0053	< 0.0053	< 0.0053	< 0.011	< 0.0053
	8-10	3/14/13	< 0.0053	< 0.0053	< 0.0053	< 0.011	< 0.0053
SB-905	2-4	3/12/13	< 0.0054	< 0.0054	< 0.0054	< 0.011	< 0.0054
	4-8	3/12/13	< 0.0039	< 0.0039	< 0.0039	< 0.0078	< 0.0039
	8-10	3/12/13	< 0.0046	< 0.0046	< 0.0046	< 0.0093	< 0.0046
SB-906	2-4	3/12/13	< 0.0049	< 0.0049	< 0.0049	< 0.0098	< 0.0049
	4-8	3/12/13	< 0.0076	< 0.0076	< 0.0076	< 0.015	< 0.0076
	8-10	3/12/13	< 0.0049	< 0.0049	< 0.0049	< 0.0097	< 0.0049
SB-907	2-4 (DUP-01)	3/12/13	< 0.0052	< 0.0052	< 0.0052	< 0.010	< 0.0052
	4-8	3/12/13	< 0.0043	< 0.0043	< 0.0043	< 0.0086	< 0.0043
	8-12	3/12/13	< 0.0044	< 0.0044	< 0.0044	< 0.0088	< 0.0044
SB-908	2-4	3/12/13	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
	4-8	3/12/13	< 0.0046	< 0.0046	< 0.0046	< 0.0091	< 0.0046
	8-12	3/12/13	< 0.0047	< 0.0047	< 0.0047	< 0.0095	< 0.0047
SB-909	2-4	3/15/13	< 0.0055	< 0.0055	< 0.0055	< 0.011	< 0.0055
	4-8	3/15/13	< 0.0047	< 0.0047	< 0.0047	< 0.0095	< 0.0047
	8-9	3/15/13	< 0.0044	< 0.0044	< 0.0044	< 0.0088	< 0.0044
SB-910	2-4	3/13/13	< 0.0047	< 0.0047	< 0.0047	< 0.0093	< 0.0047
	4-8	3/13/13	< 0.0046	< 0.0046	< 0.0046	< 0.0093	< 0.0046
	8-10	3/13/13	< 0.0045	< 0.0045	< 0.0045	< 0.0089	< 0.0045
SB-911	2-4 (DUP-03)	3/13/13	< 0.0038	< 0.0038	< 0.0038	< 0.0076	< 0.0038
	4-8	3/13/13	< 0.0044	< 0.0044	< 0.0044	< 0.0089	< 0.0044
	8-12	3/13/13	< 0.0047	< 0.0047	< 0.0047	< 0.0095	< 0.0047
SB-912	2-4	3/13/13	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050
	4-8	3/13/13	< 0.0041	< 0.0041	< 0.0041	< 0.0083	< 0.0041
	8-12	3/13/13	< 0.0039	< 0.0039	< 0.0039	< 0.0079	< 0.0039
SB-913	2-4	3/13/13	< 0.0048	< 0.0048	< 0.0048	< 0.0096	< 0.0048
	4-8	3/13/13	< 0.0039	< 0.0039	< 0.0039	< 0.0078	< 0.0039
	8-10	3/13/13	< 0.0043	< 0.0043	< 0.0043	< 0.0086	< 0.0043
SB-914	2-4	3/13/13	< 0.0041	< 0.0041	< 0.0041	< 0.0083	< 0.0041
	4-8	3/13/13	< 0.0048	< 0.0048	< 0.0048	< 0.0096	< 0.0048
	8-10	3/13/13	< 0.0043	< 0.0043	< 0.0043	< 0.0085	< 0.0043
SB-915	2-4	3/19/13	< 0.0041	< 0.0041	< 0.0041	< 0.0082	< 0.0041
	4-8	3/19/13	< 0.0041	< 0.0041	< 0.0041	< 0.0083	< 0.0041
	8-10	3/19/13	< 0.0043	< 0.0043	< 0.0043	< 0.0086	< 0.0043
SB-916	2-4	3/15/13	< 0.0047	< 0.0047	< 0.0047	< 0.0093	< 0.0047
	4-8	3/15/13	< 0.0048	< 0.0048	< 0.0048	< 0.0096	< 0.0048
	8-10	3/15/13	< 0.0047	< 0.0047	< 0.0047	< 0.0093	< 0.0047
SB-917	2-4	3/19/13	< 0.0040	< 0.0040	< 0.0040	< 0.0079	< 0.0040
	4-8	3/19/13	< 0.0043	< 0.0043	< 0.0043	< 0.0087	< 0.0043
	8-10	3/19/13	< 0.0043	< 0.0043	< 0.0043	< 0.0086	< 0.0043
SB-918	2-4 (DUP-08)	3/19/13	< 0.0038	< 0.0038	< 0.0038	< 0.0076	< 0.0038
	4-8	3/19/13	< 0.0042	< 0.0042	< 0.0042	< 0.0084	< 0.0042
	8-10	3/19/13	< 0.0041	< 0.0041	< 0.0041	< 0.0082	< 0.0041
SB-919	2-4	3/19/13	< 0.0052	< 0.0052	< 0.0052	< 0.010	< 0.0052
	4-8	3/19/13	< 0.0043	< 0.0043	< 0.0043	< 0.0087	< 0.0043
SB-920	2-4	3/15/13	< 0.0044	< 0.0044	< 0.0044	< 0.0089	< 0.0044
	4-8	3/15/13	< 0.0043	< 0.0043	< 0.0043	< 0.0086	< 0.0043
SB-921	2-4	3/20/13	< 0.059	< 0.059	< 0.059	< 0.012	< 0.059
	4-8	3/20/13	< 0.045	< 0.045	< 0.045	< 0.0090	< 0.045
	8-12	3/20/13	< 0.0043	< 0.0043	< 0.0043	< 0.0085	< 0.0043
SB-922	2-4	3/20/13	< 0.0072	< 0.0072	< 0.0072	< 0.014	< 0.0072
	4-8	3/20/13	< 0.0041	< 0.0041	< 0.0041	< 0.0083	< 0.0041
	8-12	3/20/13	< 0.0045	< 0.0045	< 0.0045	< 0.0089	< 0.0045
	12-14	3/20/13	< 0.0039	< 0.0039	< 0.0039	< 0.0077	< 0.0039
SB-923	2-4	3/15/13	< 0.0043	< 0.0043	< 0.0043	< 0.0087	< 0.0043
	4-8	3/15/13	< 0.0043	< 0.0043	< 0.0043	< 0.0087	< 0.0043
	8-12 (DUP-06)	3/15/13	< 0.0048	< 0.0048	< 0.0048	< 0.0097	< 0.0048

Notes:
All concentrations reported in mg/Kg
Bold = detected concentration
Bold + shaded = concentration exceeds Type 1 RRS

Table 4-4
Western Portion - Surface Soil Delineation to Type 1 RRS
SVOCs
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Sample ID	Depth BGS (ft)	Date Sampled	2,4-Dimethyl phenol	2-Methyl phenol	4-Methyl phenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Phenol	Pyrene
		Type 1 RRS	70	3.8	3.8	300	130	500	5	1.64	5	500	5	5	2	500	360	5	100	110	400	500
Delineation Borings																						
SB-902	0-2	3/14/13	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
SB-905	0-2	3/12/13	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	**0.048**	< 0.41	**0.098**	< 0.41	**0.094**	**0.064**	< 0.41	**0.081**	< 0.41	< 0.41	**0.16**	**0.11**	< 0.41	**0.08**
SB-906	0-2	3/12/13	< 0.40	< 0.40	< 0.40	< 0.40	**0.57**	**0.41**	**1.0**	**0.99**	**1.8**	**0.65**	**0.80**	**1.3**	< 0.40	**1.1**	< 0.40	**0.7**	**1.4**	**1.3**	< 0.40	**1.2**
SB-907	0-2	3/12/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	**0.92**	**1.0**	< 0.38	**0.57**	**0.64**	**1.1**	< 0.38	**1.2**	< 0.38	**0.53**	**0.48**	**1.6**	< 0.38	**1.4**
SB-908	0-2 (DUP-02)	3/12/13	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	**1.2**	**1.2**	**1.6**	**0.74**	**0.76**	**1.4**	< 0.39	**1.6**	< 0.39	**0.68**	< 0.39	**1.5**	< 0.39	**1.8**
SB-909	0-2	3/15/13	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
SB-910	0-2	3/13/13	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
SB-911	0-2	3/13/13	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
SB-913	0-2	3/13/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	**0.39**	**1.2**	**1.2**	**1.4**	**0.87**	**0.75**	**1.2**	< 0.38	**2.8**	< 0.38	**0.78**	< 0.38	**2.1**	< 0.38	**2.2**
SB-914	0-2	3/13/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	**1.4**	**1.5**	**2.2**	**0.89**	**1.0**	**1.5**	< 0.38	**2.2**	< 0.38	**0.87**	< 0.38	**1.2**	< 0.38	**2.2**
SB-915	0-2 (DUP-07)	3/19/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
SB-916	0-2	3/15/13	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	**0.49**	< 0.37	< 0.37	< 0.37	< 0.37	**0.49**	< 0.37	< 0.37	**0.97**	**0.79**	< 0.37	**0.47**
SB-917	0-2	3/19/13	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
SB-918	0-2	3/19/13	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
SB-919	0-2 (DUP-09)	3/19/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
SB-920	0-2	3/15/13	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	**0.51**	< 0.43	**0.59**	< 0.43	< 0.43	**0.59**	< 0.43	**0.82**	< 0.43	< 0.43	**3.7**	**2.2**	< 0.43	**0.89**
SB-921	0-2 (DUP-10)	3/20/13	< 0.40	< 0.40	< 0.40	< 0.40	**0.59**	**0.55**	**1.4**	**1.3**	**3.7**	**0.81**	< 0.40	**2.0**	< 0.40	**1.7**	< 0.40	**0.99**	**2.1**	**1.7**	< 0.40	**1.9**
SB-928	0-2	4/11/2013	--	--	--	--	--	--	--	< 0.74	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
All concentrations reported in mg/Kg
Bold = detected concentration
Bold + shaded = concentration exceeds Type 1 RRS

Table 4-5
Western Portion - Subsurface Soil Delineation to Type 1 RRS
SVOCs
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Sample ID	Depth BGS (ft)	Date Sampled	2,4-Dimethyl phenol	2-Methyl phenol	4-Methyl phenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Phenol	Pyrene
		Type 1 RRS	70	3.8	3.8	300	130	500	5	1.64	5	500	5	5	2	500	360	5	100	110	400	500
Delineation Borings																						
SB-900	2-4 (DUP-04)	3/14/13	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	**0.42**	**0.52**	**0.39**	< 0.39	< 0.39	< 0.39	**0.53**	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	**0.57**
	4-8	3/14/13	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
	8-12	3/14/13	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	**18**	< 2.0	< 2.0	< 2.0
SB-901	2-4	3/14/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
	4-8	3/14/13	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
	8-12	3/14/13	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
SB-902	2-4 (DUP-05)	3/14/13	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
	4-8	3/14/13	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
	8-10	3/14/13	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
SB-903	2-4	3/14/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
	4-8	3/14/13	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
	8-9	3/14/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
SB-904	2-4	3/14/13	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
	4-8	3/14/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
	8-10	3/14/13	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
SB-905	2-4	3/12/13	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
	4-8	3/12/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
	8-10	3/12/13	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
SB-906	2-4	3/12/13	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	**0.43**	**0.63**	**0.91**	**0.42**	**0.59**	**0.52**	< 0.41	**0.46**	< 0.41	**0.41**	< 0.41	< 0.41	< 0.41	**0.6**
	4-8	3/12/13	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
	8-10	3/12/13	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
SB-907	2-4 (DUP-01)	3/12/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	**0.56**	**0.49**	**0.84**	< 0.38	< 0.38	**0.68**	< 0.38	**0.66**	< 0.38	< 0.38	< 0.38	**0.74**	< 0.38	**0.8**
	4-8	3/12/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
	8-12	3/12/13	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
SB-908	2-4	3/12/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	**1.2**	**1.5**	**2.5**	**0.85**	< 0.38	**1.6**	**0.96**	< 0.38	< 0.38	**0.93**	< 0.38	**1.2**	< 0.38	**1.8**
	4-8	3/12/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
	8-12	3/12/13	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
SB-909	2-4	3/15/13	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
	4-8	3/15/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
	8-9	3/15/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
SB-910	2-4	3/13/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
	4-8	3/13/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
	8-10	3/13/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
SB-912	2-4	3/13/13	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
	4-8	3/13/13	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
	8-12	3/13/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
SB-914	2-4	3/13/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	**0.064**	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	**0.053**	< 0.38	< 0.38	< 0.38	< 0.38
	4-8	3/13/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	**0.033**	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
	8-10	3/13/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
SB-915	2-4	3/19/13	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	**0.83**	**0.73**	**0.87**	**0.43**	**0.41**	**0.84**	< 0.36	**1.6**	< 0.36	**0.42**	< 0.36	**1.2**	< 0.36	**1.2**
	4-8	3/19/13	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
	8-10	3/19/13	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
SB-916	2-4	3/15/13	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
	4-8	3/15/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
	8-10	3/15/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
SB-917	2-4	3/19/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
	4-8	3/19/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
	8-10	3/19/13	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
SB-918	2-4 (DUP-08)	3/19/13	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
	4-8	3/19/13	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
	8-10	3/19/13	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	**< 0.39**	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
SB-919	2-4	3/19/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
	4-8	3/19/13	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
SB-920	2-4	3/15/13	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
	4-8	3/15/13	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
SB-921	2-4	3/20/13	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	**0.37**	**1.1**	< 0.37	< 0.37	**0.52**	< 0.37	**0.49**	< 0.37	< 0.37	< 0.37	**0.37**	< 0.37	**0.48**
	4-8	3/20/13	< 0.045	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
	8-12	3/20/13	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
SB-922	2-4	3/20/13	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	**0.46**	**0.45**	**0.98**	< 0.39	< 0.39	**0.69**	< 0.39	**0.58**	< 0.39	< 0.39	**0.39**	**0.47**	< 0.39	**0.73**
	4-8	3/20/13	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
	8-12	3/20/13	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
	12-14	3/20/13	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
SB-923	2-4	3/15/13	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	**1.7**	**1.6**	**3.1**	< 0.40	< 0.40	**1.8**	< 0.40	< 0.40	**2.6**	**1.2**	**1.3**	**1.8**	< 0.40	**2.3**
	4-8	3/15/13	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
	8-12 (DUP-06)	3/15/13	< 0.42	< 0.42	< 0.42	**0.88**	**0.69**	**0.64**	**1.8**	**1.5**	**1.4**	**0.53**	< 0.42	**1.6**	< 0.42	**3.9**	**2.8**	**0.46**	< 0.42	< 0.42	< 0.42	**5.6**

Notes:
All concentrations reported in mg/Kg
Bold = detected concentration
Bold + shaded = concentration exceeds Type 1 RRS

Table 4-6
Western Portion - Surface Soil Delineation to Type 1 RRS
Inorganics
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Sample ID	Depth BGS (ft)	Date Sampled	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Cyanide, Total	Lead	Mercury	Nickel	Zinc
		Type 1 RRS	4	25	1000	2	2.4	100	170	20	280	0.5	50	330
Delineation Borings														
SB-902	0-2	3/14/13	< 2.2	4.0	13	< 0.44	< 0.54	9.9	2.8	< 0.57	9.0	< 0.021	< 4.4	9
SB-907	0-2	3/12/13	< 2.3	6.4	77	< 0.46	< 0.58	9.2	21	< 0.57	63	0.26	5.1	26
SB-908	0-2 (DUP-02)	3/12/13	< 2.4	11	63	< 0.47	< 0.59	9.4	39	< 0.59	110	0.28	< 4.7	71
SB-910	0-2	3/13/13	< 2.0	4.3	180	0.58	< 0.51	9.4	12	< 0.55	66	0.45	5.3	36
SB-911	0-2	3/13/13	< 2.1	4.2	230	0.61	< 0.52	9.0	10	< 0.54	100	0.41	5.0	26
SB-913	0-2	3/13/13	< 2.1	8.0	2.9	< 0.41	< 0.51	19	16	< 0.56	45	0.035	4.4	22
SB-915	0-2 (DUP-07)	3/19/13	< 2.2	5.9	52	0.51	< 0.56	20	24	< 0.55	37	0.11	6.1	23
SB-916	0-2	3/15/13	< 2.1	7.0	48	< 0.41	< 0.52	19	26	< 0.56	41	0.32	4.5	28
SB-917	0-2	3/19/13	< 2.2	3.8	73	0.52	< 0.55	9.0	10	< 0.55	56	0.44	< 4.4	17
SB-918	0-2	3/19/13	< 2.2	4.1	93	0.62	0.56	10	12	0.71	23	0.11	4.6	260
SB-919	0-2 (DUP-09)	3/19/13	< 2.3	4.1	51	< 0.46	< 0.57	20	6.4	< 0.55	13	0.069	4.8	15
Stepout Locations														
SB-926	0-2	4/11 & 6/21/13	4.3	26	--	--	--	--	120	--	18.0	--	--	--
SB-927	0-2 (DUP-24)	4/11 & 6/21/13	< 1.8	49	--	--	--	--	3.8	--	11.5	--	--	--
SB-928	0-2	4/11/2013	< 2.1	--	--	< 0.43	--	--	--	--	--	--	--	--
SB-930	0-2	4/11/2013	< 1.9	--	--	--	--	--	--	--	--	--	--	--
SB-931	0-2	6/21/2013	< 5.53	6.37	--	--	--	--	--	--	--	--	--	--
SB-932	0-2	6/21/2013	--	11.2	--	--	--	--	--	--	--	--	--	--
SB-933	0-2	6/18/2013	--	< 5.34	--	--	--	--	--	--	--	--	--	--
SB-935	0-2	6/18/2013	--	32.9	--	--	--	--	--	--	--	--	--	--
SB-936	0-2	6/18/2013	--	18.7	--	--	--	--	--	--	--	--	--	--
SB-937	0-2	6/18/2013	--	< 5.14	--	--	--	--	--	--	--	--	--	--
SB-938	0-2	6/18/2013	--	20.6	--	--	--	--	--	--	--	--	--	--
SB-939	0-2	6/18/2013	--	< 5.17	--	--	--	--	--	--	--	--	--	--
SB-940	0-2	6/18/2013	--	26.6	--	--	--	--	--	--	--	--	--	--
SB-941	0-2	6/18/2013	--	< 5.52	--	--	--	--	--	--	--	--	--	--
SB-942	0-2	6/18/2013	--	30.9	--	--	--	--	--	--	--	--	--	--
SB-943	0-2	6/18/2013	--	19.6	--	--	--	--	--	--	--	--	--	--
SB-944	0-2	6/18/2013	--	59.8	--	--	--	--	--	--	--	--	--	--

Notes:
All concentrations reported in mg/Kg
Inorganic Type 1 RRS Exceedance Not Related to MGP Impacts

Table 4-7
Western Portion - Subsurface Soil Delineation to Type 1 RRS
Inorganics
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Sample ID	Depth BGS (ft)	Date Sampled	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Cyanide, Total	Lead	Mercury	Nickel	Zinc
		Type 1 RRS	4	20	1000	2.6	2.4	100	100	20	75	0.5	50	100
Delineation Borings														
SB-900	2-4 (DUP-04)	3/14/13	< 2.3	3.4	62	0.45	< 0.57	18	10	2.9	16	0.31	6.4	20
	4-8	3/14/13	< 2.1	< 2.1	29	< 0.42	< 0.52	22	8.8	3.1	8.4	0.058	5.5	19
	8-12	3/14/13	< 2.2	< 2.2	30	< 0.44	< 0.55	21	9.2	1.9	9.9	0.21	5.4	19
SB-901	2-4	3/14/13	< 2.3	2.6	37	< 0.46	< 0.57	21	6.9	<.057	8.8	0.0058	< 4.6	15
	4-8	3/14/13	< 2.4	< 2.4	39	< 0.48	< 0.60	39	11	< 0.60	12	0.19	5.9	21
	8-12	3/14/13	< 2.2	< 2.2	46	< 0.44	< 0.55	27	11	< 0.64	13	0.11	7.0	26
SB-902	2-4 (DUP-05)	3/14/13	< 2.3	3.5	41	< 0.47	< 0.58	18	7.3	< 0.58	12	0.064	6.5	42
	4-8	3/14/13	< 2.2	4.8	46	< 0.45	< 0.56	52	12	< 0.59	16	0.39	6.9	68
	8-10	3/14/13	< 2.3	< 2.3	39	< 0.47	< 0.59	36	10	< 0.60	11	< 0.021	5.0	20
SB-903	2-4	3/14/13	< 2.3	5.5	25	< 0.46	< 0.57	29	9.9	< 0.57	10	0.12	6.4	14
	4-8	3/14/13	< 2.1	5.2	9.7	< 0.42	< 0.52	39	8.7	< 0.57	8.6	0.065	< 4.2	9.0
	8-9	3/14/13	< 2.3	< 2.3	6.3	< 0.45	< 0.57	4.9	< 2.8	< 0.57	3.9	< 0.020	< 4.5	3.1
SB-904	2-4	3/14/13	< 2.3	4.2	26	< 0.46	< 0.57	26	7.5	< 0.56	9.6	0.16	5.1	14
	4-8	3/14/13	< 2.0	3.1	11	< 0.41	< 0.51	36	5.9	< 0.55	6.0	0.021	< 4.1	8.0
	8-10	3/14/13	< 2.2	< 2.2	4.0	< 0.44	< 0.55	7.1	< 2.7	< 0.58	2.6	< 0.022	< 4.4	2.5
SB-905	2-4	3/12/13	< 2.0	4.0	17	< 0.41	< 0.51	42	15	< 0.59	22	0.055	< 4.1	9.6
	4-8	3/12/13	< 2.3	< 2.3	22	< 0.47	< 0.58	15	5.2	< 0.56	5.2	0.052	< 4.7	8.0
	8-10	3/12/13	< 2.4	< 2.4	12	<.048	< 0.61	29	11	< 0.59	7.6	0.037	< 4.8	8.2
SB-906	2-4	3/12/13	< 2.3	3.6	17	< 0.46	< 0.58	21	16	< 0.61	15	0.061	5.0	10
	4-8	3/12/13	< 2.5	< 2.5	17	< 0.50	< 0.63	24	13	< 0.62	8.9	< 0.024	< 5.0	14
	8-10	3/12/13	< 2.2	< 2.2	11	< 0.44	< 0.55	11	5	< 0.62	4.3	< 0.022	< 4.4	4.9
SB-907	2-4 (DUP-01)	3/12/13	< 2.2	6.1	63	0.42	< 0.56	22	11	2.7	30	0.12	5.9	19
	4-8	3/12/13	< 2.0	4.1	16	< 0.40	< 0.50	21	5.7	< 0.55	7.6	0.021	< 4.0	10
	8-12	3/12/13	< 2.0	2.0	6.1	< 0.40	< 0.50	12	5.4	< 0.56	6.8	< 0.021	< 4.0	4.1
SB-908	2-4	3/12/13	< 2.1	3.2	33	< 0.42	< 0.52	13	9.7	< 0.57	31	0.12	4.4	18
	4-8	3/12/13	< 2.0	3.9	13	< 0.39	< 0.49	24	6.2	< 0.57	8.6	0.028	3.9	11
	8-12	3/12/13	< 2.4	< 2.4	14	< 0.47	< 0.59	15	6.2	1.3	6.9	0.028	< 4.7	8.6
SB-909	2-4	3/15/13	< 2.0	< 2.0	6.1	< 0.40	< 0.51	3.9	3.9	< 0.52	4.1	< 0.019	< 4.0	2.2
	4-8	3/15/13	< 2.1	< 2.1	4.6	< 0.43	< 0.54	4.3	5.4	< 0.55	5.1	< 0.022	< 4.3	2.6
	8-9	3/15/13	< 2.3	< 2.3	23	< 0.47	< 0.59	9.0	4.1	< 0.57	4.3	< 0.022	< 4.7	8.0
SB-910	2-4	3/13/13	< 2.3	4.6	110	0.56	< 0.57	27	7.2	< 0.55	23	0.14	10	17
	4-8	3/13/13	< 2.1	3.5	25	< 0.42	< 0.52	12	5.4	< 0.57	7.0	0.051	< 4.2	10
	8-10	3/13/13	< 2.2	< 2.2	7.5	< 0.43	< 0.54	15	4.2	< 0.56	5.4	0.035	< 4.3	4.7
SB-911	2-4 (DUP-03)	3/13/13	< 2.0	4.0	70	0.48	< 0.49	16	7	< 0.55	21	0.44	6.2	16
	4-8	3/13/13	< 2.0	2.3	16	< 0.40	< 0.50	19	5	< 0.57	6.5	0.05	< 4.0	8.0
	8-12	3/13/13	< 2.2	< 2.2	9.6	< 0.44	< 0.55	13	3.9	< 0.57	5.9	0.054	< 4.4	5.4
SB-913	2-4	3/13/13	< 2.3	2.3	19	< 0.45	< 0.56	14	7.0	< 0.58	35	0.028	< 4.5	10
	4-8	3/13/13	< 2.1	4.1	27	< 0.43	< 0.53	15	5.9	< 0.54	9.1	0.077	6.0	15
	8-10	3/13/13	< 2.2	2.8	11	< 0.43	< 0.54	16	5.5	0.91	6.4	0.039	< 4.3	12
SB-914	2-4	3/13/13	< 2.1	5.4	30	0.46	< 0.53	53	6.7	< 0.56	12	0.074	6.6	16
	4-8	3/13/13	< 2.2	3.6	21	< 0.44	< 0.55	14	6.2	< 0.55	8.5	0.050	5.2	14
	8-10	3/13/13	< 2.2	< 2.2	9.1	< 0.44	< 0.55	16	4.9	< 0.56	5.3	< 0.022	< 4.4	7.7
SB-915	2-4	3/19/13	< 2.1	4.8	47	0.46	< 0.53	16	13	< 0.53	39	0.13	5.0	21
	4-8	3/19/13	< 2.0	2.4	6.7	< 0.40	< 0.50	23	4.9	< 0.54	5.8	0.033	< 4.0	5.7
	8-10	3/19/13	< 2.1	2.6	6.7	< 0.43	< 0.54	20	5.1	< 0.55	6.4	0.044	< 4.3	4.6
SB-917	2-4	3/19/13	< 2.2	5.3	52	< 0.44	< 0.55	23	7.4	< 0.55	11	0.11	5.7	16
	4-8	3/19/13	< 2.3	4.2	9.2	< 0.46	< 0.58	24	6.3	< 0.56	6.9	< 0.021	< 4.6	9.2
	8-10	3/19/13	< 2.1	< 2.1	45	< 0.41	< 0.51	11	2.7	< 0.54	4.4	0.28	< 4.1	5.4
SB-918	2-4 (DUP-08)	3/19/13	< 2.1	5.8	42	< 0.42	< 0.53	21	9.5	< 0.56	15	0.12	5.8	33
	4-8	3/19/13	< 2.1	4.9	18	< 0.43	< 0.54	21	7.4	< 0.58	8.9	0.12	< 4.3	13
	8-10	3/19/13	< 2.2	< 2.2	11	< 0.45	< 0.56	16	7.9	< 0.57	4.6	0.030	< 4.5	8.2
SB-921	2-4	3/20/13	< 2.2	4.3	19	< 0.43	< 0.54	14	7.3	< 0.54	14	0.095	< 4.3	15
	4-8	3/20/13	< 2.1	2.5	7.4	< 0.42	< 0.52	10	3.0	< 0.54	3.2	0.0041	< 4.2	4.5
	8-12	3/20/13	< 2.2	< 2.2	1.3	< 0.43	< 0.54	1.8	< 2.7	< 0.54	1.2	< 0.020	< 4.3	< 2.2
SB-922	2-4	3/20/13	< 2.4	2.9	25	< 0.47	< 0.59	15	8.3	< 0.57	11	0.071	< 4.7	9.0
	4-8	3/20/13	< 2.3	< 2.3	32	< 0.45	< 0.56	10	9.5	< 0.55	6.1	< 0.020	< 4.5	8.4
	8-12	3/20/13	< 1.9	< 1.9	14	< 0.39	< 0.49	26	8.9	< 0.54	5.5	0.052	< 3.9	9.2
	12-14	3/20/13	< 2.1	< 2.1	11	< 0.42	< 0.53	5.9	< 2.6	< 0.51	2.9	< 0.018	< 4.2	2.4
Stepout Locations														
SB-926	2-4	4/11 & 6/21/13	--	< 5.51	--	--	--	--	--	< 1.15	< 5.51	0.055	--	--
	4-8	4/11 & 6/21/13	--	< 6.30	--	--	--	--	--	--	--	--	--	--
SB-927	2-4	4/11 & 6/21/13	--	< 5.51	--	--	--	--	--	< 1.11	9.08	0.13	--	--
	4-8	4/11 & 6/21/13	--	< 5.55	--	--	--	--	--	--	--	< 0.113	--	--
SB-928	2-4	4/11/2013	--	--	--	--	--	42	--	--	--	0.23	--	--
SB-930	2-4	4/11/2013	--	--	--	--	--	--	--	--	--	0.17	--	--
SB-932	2-4	6/21/2013	--	--	--	--	--	--	--	--	--	< 0.114	--	--

Notes:
All concentrations reported in mg/Kg
Bold + shaded = concentration exceeds Type 1 RRS

Table 5-1
Delineation Standards in Groundwater
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 1 RRS*
Organic Constituents		
Volatile Organic Compounds		
Benzene	µg/L	5
Carbon Disulfide	µg/L	4,000
Ethylbenzene	µg/L	700
Toluene	µg/L	1000
Total Xylenes	µg/L	10,000
BTEX	µg/L	--
Semivolatile Organic Compounds		
Acenaphthene	µg/L	2,000
Acenaphthylene	µg/L	470
Anthracene	µg/L	4,700
Benzo[a]anthracene	µg/L	0.10
Benzo[a]pyrene	µg/L	0.20
Benzo[b]fluoranthene	µg/L	0.20
Benzo[g,h,i]perylene	µg/L	10
Benzo[k]fluoranthene	µg/L	11.7
Chrysene	µg/L	0.2
Dibenz(a,h)anthracene	µg/L	0.30
2,4-Dimehylphenol	µg/L	700
Fluoranthene	µg/L	1,000
Fluorene	µg/L	1,000
Indeno[1,2,3-cd]pyrene	µg/L	0.40
2-Methylphenol	µg/L	780
3 & 4 Methylphenol	µg/L	78
Naphthalene	µg/L	20
Phenanthrene	µg/L	470
Phenol	µg/L	4,000
Pyrene	µg/L	1,000
Inorganic Constituents		
Antimony	mg/L	0.006
Arsenic	mg/L	0.01
Barium	mg/L	2
Beryllium	mg/L	0.004
Cadmium	mg/L	0.005
Chromium	mg/L	0.1
Copper	mg/L	1.3
Lead	mg/L	0.015
Nickel	mg/L	0.1
Zinc	mg/L	2
Mercury	mg/L	0.002
Total Cyanide	mg/L	0.2

* Type 1 RRS = groundwater delineation standard
µg/L = micrograms per liter
mg/L = milligrams per liter

Table 5-2
Alluvial Groundwater Analytical Results
February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant
Macon, Georgia

Parameter	Units	Type 1 (Residential) RRS	Type 2 (Residential) RRS	Type 4 (Non-residential) RRS	AMW-2	AMW-6	AMW-11	AMW-12	AMW-13	AMW-14	AMW-15	MW-08	MW-10	MW-11		MW-12R	MW-12IR	MW-14	MW-14I	MW-15	MW-21	MW-23	MW-26	MW-28	MW-101		MW-102	MW-103	MW-104	MW-104I	MW-105	MW-106	MW-107	MW-108	MW-109	MW-205	MW-400		MW-401
					02/22/18	02/21/18	02/20/18	02/20/18	02/20/18	02/21/18	02/21/18	02/23/18	02/21/18	02/21/18	DUP-2	02/22/18	02/22/18	02/26/18	02/26/18	02/22/18	02/26/18	02/20/18	02/20/18	02/21/18	02/27/18	DUP-6	02/22/18	02/22/18	02/22/18	02/22/18	02/21/18	02/22/18	02/22/18	02/21/18	02/21/18	02/21/18	02/22/18	DUP-3	02/22/18
			Applicable RRS		Type 4	Type 2	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4		Type 4	Type 2	Type 4	Type 2	Type 4	Type 2	Type 4	Type 4	Type 4	Type 4		Type 4	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4	Type 2	Type 4	Type 4		Type 4
Groundwater Elevation	ft. AMSL	N/A	N/A	N/A	313.25	314.40	315.43	312.14	315.05	316.15	315.04	294.27	297.45	295.61		293.00	289.10	289.07	288.52	293.72	289.88	281.89	286.67	286.41	296.70		293.35	297.72	289.97	289.27	296.97	297.53	297.38	311.11	306.45	314.25	294.26		293.88
Field Groundwater Quality Parameters																																						
pH	SU	N/A	N/A	N/A	6.24	7.46	5.73	5.53	5.67	6.05	5.70	6.01	5.95	5.88		4.09	5.72	6.03	6.93	5.87	5.56	5.84	5.90	6.08	5.54		5.53	5.01	5.84	5.94	5.77	5.63	5.82	6.33	5.30	6.08	5.20		6.04
Specific Conductance	µS/cm	N/A	N/A	N/A	300.92	25.51	648.50	440.97	334.08	311.56	153.75	276.60	279.80	324.95		665.20	574.91	240.02	392.61	586.73	115.65	630.00	367.30	220.69	338.13		484.32	81.14	158.25	146.49	355.10	411.01	346.30	675.55	172.12	313.89	833.30		428.91
Temperature	Celsius	N/A	N/A	N/A	21.02	21.19	21.66	22.54	22.83	20.82	23.65	21.95	19.98	19.49		18.19	19.49	19.90	21.06	18.70	16.91	21.00	17.84	21.09	17.58		18.36	20.67	22.28	23.48	21.19	21.46	20.34	23.11	23.71	26.10	21.46		21.13
Dissolved Oxygen	mg/L	N/A	N/A	N/A	1.49	2.37	0.42	3.73	2.05	1.65	3.82	4.16	0.93	0.24		1.11	0.22	1.58	0.10	0.41	1.87	2.41	0.10	1.02	0.14		0.74	3.59	2.20	1.68	0.56	0.55	0.18	0.33	0.79	0.11	0.46		0.15
Oxidation-Reduction Potential	mV	N/A	N/A	N/A	59.80	143.91	111.26	97.49	102.51	81.44	72.53	84.00	65.37	59.87		90.34	87.81	47.27	-32.73	82.01	60.02	95.00	-13.26	42.53	100.73		73.24	96.01	53.25	52.65	60.03	100.78	49.69	-22.94	65.63	-67.87	138.38		71.27
Turbidity	NTU	N/A	N/A	N/A	3.19	3.27	0.51	0.49	0.33	3.22	2.33	0.20	0.88	8.40		2.08	9.56	2.30	2.57	0.11	10.61	0.53	3.44	7.76	2.57		0.88	1.64	2.51	8.78	1.11	1.21	4.86	4.29	0.68	2.80	1.76		0.56
Laboratory Results - Natural Attenuation Parameters																																						
Nitrogen, Nitrate	mg/L	N/A	N/A	N/A	2.7	1.5	8.90	7.90	0.65	< 0.25	< 0.25	1.1	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	2.7	< 0.25	0.81	< 0.25	< 0.25	3.8	3.8	< 0.25	2.1	< 0.25	< 0.25	2.4	0.52	< 0.25	< 0.25	< 0.25	< 0.25	2.2	2.2	0.43
Sulfate	mg/L	N/A	N/A	N/A	38	160	93	94	84	37	10	49	57	120	110	370	270	18	73	230	16	50	71	45	120	110	220	14	43	28	120	140	91	320	37	14	370	480	99
Sulfide	mg/L	N/A	N/A	N/A	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	5.8	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	24.8	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ferrous Iron	mg/L	N/A	N/A	N/A	< 0.100	0.188	< 0.100	< 0.100	< 0.100	1.6	1.54	< 0.100	< 0.100	0.265	0.142	13.4	7.88	0.262	4.42	0.462	0.79	< 0.100	14.90	< 0.100	0.309	0.309	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	6.29	6.4	0.265	7.1	2.27	2.35	10.2
Total Iron	mg/L	N/A	N/A	N/A	< 0.100	0.487	1.31	< 0.1	< 0.1	2.29	2.17	0.308	< 0.100	1.07	1.11	13.3	10.9	0.634	7.82	0.551	1.6	< 0.100	16.40	0.744	0.804	0.83	< 0.100	< 0.100	< 0.100	0.208	< 0.100	< 0.100	6.1	13.3	0.307	28.7	2.44	2.65	9.61
Carbon Dioxide	mg/L	N/A	N/A	N/A	62	150	140	150	190	100	88	68	90	98	100	75	62	83	85	160	100	100	100	60	66	64	110	51	47	39	75	140	97	57	140	92	210	200	80
Methane	mg/L	N/A	N/A	N/A	< 0.006	0.0077	< 0.004	< 0.004	< 0.004	0.018	0.046	< 0.004	< 0.004	0.07	0.06	0.03	0.12	0.04	0.10	< 0.004	0.02	< 0.004	0.04	< 0.004	0.005	0.00	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.59	0.07	0.01	0.13	0.047	0.041	0.024
Dissolved Nitrogen	mg/L	N/A	N/A	N/A	14	19	19	18	15	15	13	15	14	19	17	16	16	15	18	19	14	17	17	20	18	18	16	18	15	17	14	16	17	18	17	17	16	17	16
Dissolved Oxygen	mg/L	N/A	N/A	N/A	31	4.4	4.0	6.1	4.1	4.0	4.6	57.0	4.8	7.3	6.5	5.3	5.6	5.3	6.5	4.4	3.7	4.8	4.7	6.4	2.6	2.7	5.0	5.3	5.3	7.6	5.7	2.8	3.0	2.3	3.2	1.6	4.5	3.7	3.0
Laboratory Results - Organic Constituents																																						
Organic Constituents																																						
Volatile Organic Compounds																																						
Benzene	µg/L	5*	5*	9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**23**	**100**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**31**	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	4,000*	4,000*	4,000*	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/L	700*	700*	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	59	19	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	34	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,000*	1,100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5.3	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Xylenes	µg/L	10,000	31,000	200,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	48	13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	28	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																																						
Acenaphthene	µg/L	2,000*	2,000*	6,100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	17	26	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.8	< 0.50	1.7	0.68	< 0.50	< 0.50	< 0.50	< 0.50	0.99	0.81	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.79	1.3	< 0.50	32	0.52	0.52	< 0.50
Acenaphthylene	µg/L	470	470	3,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	21	3.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.5	< 1.0	< 1.0	< 1.0
Anthracene	µg/L	4,700	4,700	31,000	< 0.050	0.05	< 0.050	0.06	< 0.050	1.2	1.1	< 0.050	< 0.050	< 0.050	< 0.050	0.076	0.2	< 0.050	0.057	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.059	0.053	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.077	< 0.050	0.13	< 0.050	0.97	0.11	0.15	< 0.050
Benzo[a]anthracene	µg/L	0.10	1.17	3.92	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.4**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.15**	< 0.050	< 0.050	< 0.050
Benzo[a]pyrene	µg/L	0.2*	0.2*	0.39	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo[b]fluoranthene	µg/L	0.20	1.17	3.92	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	**0.23**	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	µg/L	10	10	10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	µg/L	11.7	11.7	39.2	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.19	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Chrysene	µg/L	0.20	117	392	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.33**	< 0.050	< 0.050	< 0.050	< 0.050	0.066	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.2**	< 0.050	< 0.050	< 0.050
Dibenz(a,h)anthracene	µg/L	0.3*	0.3*	0.39	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.29	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,4-Dimethylphenol	µg/L	700*	700*	700*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	1,000*	4,100	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.41	0.54	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	4.9	< 0.10	0.12	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.16	0.14	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	2	< 0.10	0.1	< 0.10
Fluorene	µg/L	1,000*	1,000*	4,100	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	9.2	8.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	6.6	< 0.10	0.84	0.37	< 0.10	< 0.10	< 0.10	< 0.10	0.74	0.61	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.38	0.24	< 0.10	< 0.10	13	< 0.10	0.11	< 0.10
Indeno[1,2,3-cd]pyrene	µg/L	0.40	1.17	3.92	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Methylphenol	µg/L	780	780	5,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	78	510	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	20*	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**320**	**32**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.6	3.1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**38**	< 0.50	< 0.50	< 0.50
Phenanthrene	µg/L	470	470	3,100	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	12	7.4	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.19	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.13	0.12	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	3.7	< 0.050	< 0.050	< 0.050
Phenol	µg/L	4,000	9,390	61,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	µg/L	1,000*	1,000*	3,100	< 0.050	< 0.050	0.053	< 0.050	< 0.050	0.41	0.45	< 0.050	< 0.050	< 0.050	< 0.050	0.29	8.5	< 0.050	0.31	0.73	< 0.050	< 0.050	< 0.050	< 0.050	0.15	0.12	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.95	0.26	< 0.050	2.7	0.13	0.17	2
Laboratory Results - Inorganic Constituents																																						
Antimony	µg/L	6.0	6.3	400	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Arsenic	µg/L	10	50*	50*	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	2,000	7,200	95.8	36.0	46.6	43.0	72.3	178	175	48.5	39.3	48.7	48.5	< 20	21.3	132	156	24.5	143	67.3	63.2	108	55.9	56.4	91.6	35.6	43.8	20.1	38.9	31.2	61.7	108	92.6	94.1	40.4	42.1	82.7
Beryllium	µg/L	4.0	31	200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Cadmium	µg/L	5.0	7.8	51	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**13.3**	**13.2**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**17.4**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium	µg/L	100	100	310	< 10	< 10	**130**	32.9	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	1300	630	4,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	15*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	100	2,000	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	25.8	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	64.4	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Zinc	µg/L	2,000	4,700	31,000	29.2	< 20	< 20	< 20	34.4	< 20	< 20	< 20	< 20	25.8	28.4	112	46.3	43.5	< 20	68.9	47.6	< 20	< 20	< 20	< 20	< 20	1290	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	20.3	55.1	56.7	< 20
Mercury	µg/L	2*	2*	2*	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Total Cyanide	µg/L	200	310	2,000	< 10	< 10	12	< 10	< 10	16	< 10	< 10	< 10	< 10	< 10	< 10	35	< 10	< 10	109	< 10	< 10	< 10	< 10	19	14	< 10	< 10	< 10	< 10	< 10	88	12	60	< 10	< 10	75	81	< 10

Notes:
* Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.
Analyte concentration exceeds the Type 1 RRS
Analyte concentration exceeds the residential (Type 2) RRS

Table 5-3
Bedrock Groundwater Analytical Results
February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant
Macon, Georgia

Parameter	Units	Type 1 (Residential) RRS	Type 2 (Residential) RRS	Type 4 (Non-residential) RRS	MW-08D	MW-12DRR	MW-12DD	MW-22D	MW-23D	MW-24D	MW-26D	MW-27D	MW-27DD	MW-108D	MW-110D	MW-112D	MW-113D	MW-114D	MW-200DR	MW-204D		MW-205D		MW-205DD
					02/21/18	02/23/18	02/23/18	02/21/18	02/20/18	02/19/18	02/20/18	02/20/18	02/20/18	02/20/18	02/22/18	02/20/18	02/21/18	02/21/18	02/22/18	02/22/18	DUP-4	02/26/18	DUP-5	2/32/18
			Applicable RRS		Type 4	Type 4	Type 4	Type 4	Type 4	Type 2	Type 2	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4		Type 2		Type 2
Groundwater Elevation	ft. AMSL	N/A	N/A	N/A																				
Field Groundwater Quality Parameters																								
pH	SU	N/A	N/A	N/A	6.69	6.22	7.62	6.43	5.95	5.95	10.45	6.61	6.92	8.85	6.39	9.77	5.64	8.04	6.54	6.31		7.02		8.35
Specific Conductance	µS/cm	N/A	N/A	N/A	257.5	540.6	241	711	592	466.1	300.5	225.91	625.87	185.2	556.5	300.47	582	423.94	542.96	474.92		729.57		454.7
Temperature	°Celsius	N/A	N/A	N/A	21.87	20.32	22.05	20.98	23.25	19.85	20.48	19.77	21.46	23.38	22.8	20.48	21.08	23.81	23.52	22.04		21.25		24.28
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	N/A	0.18	0.1	0.26	1.06	1.6	0.18	0.72	0.18	0.34	0.27	0.09	5.52	1.68	4.69	0.07	0.11		0.08		0.77
Oxidation-Reduction Potential (ORP)	mV	N/A	N/A	N/A	36	7.8	37.3	-38	79	41	31.9	-8.3	-33	-7.6	-58.9	32.5	100.6	83.7	-63.9	-37		-80.6		-86.5
Turbidity	NTU	N/A	N/A	N/A	2.56	1.71	1.92	0.9	7.61	2.19	2.58	1.37	1.4	0.49	3.49	0.75	0.51	0.24	0.4	0.74		1.21		3.22
Laboratory Results - Natural Attenuation Parameters																								
Nitrogen, Nitrate	mg/L	N/A	N/A	N/A	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	0.34	< 0.25	< 0.25	< 0.25	< 0.25	0.43	< 0.25	0.51	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Sulfate	mg/L	N/A	N/A	N/A	5.2	11	< 1.0	3.3	50	< 1.0	30	3.3	51	2.5	< 1.0	3.2	57	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	34
Sulfide	mg/L	N/A	N/A	N/A	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	16.4	< 2.0	< 2.0	< 2.0	< 2.0
Ferrous Iron	mg/L	N/A	N/A	N/A	< 0.100	0.251	< 0.100	4.48	< 0.100	31.6	< 0.100	1.34	2.5	< 0.100	9.93	< 0.100	0.268	< 0.100	2.62	1.04	0.703	1.27	3.99	< 0.100
Total Iron	mg/L	N/A	N/A	N/A	1.15	0.355	0.167	7.61	0.587	33.7	< 0.100	1.37	4.04	0.185	9.22	< 0.100	0.286	0.125	4.44	2.83	2.82	6.73	6.76	0.14
Carbon Dioxide	mg/L	N/A	N/A	N/A	8.40	120	< 5.0	41	140	160	< 5.0	60.00	21.00	< 5.0	140.00	< 5.0	160.00	7.60	120.00	130	140	140	140	< 5.0
Methane	mg/L	N/A	N/A	N/A	0.380	1.200	0.530	0.018	0.093	1.30	< 0.004	0.01	< 0.004	0.13	0.72	< 0.004	0.04	0.07	1.70	0.95	0.84	4.6	3.5	0.1
Dissolved Nitrogen	mg/L	N/A	N/A	N/A	18	16	19	18	14	20	18	19	21	17	15	18	18	18	17	15	17	17	18	18
Dissolved Oxygen	mg/L	N/A	N/A	N/A	4.1	3.2	4.0	2.4	2.5	3.0	6.0	6.0	6.6	2.8	4.3	8.6	3.7	6.1	3.2	5.9	4.5	3.9	3.2	3.8
Laboratory Results - Organic Constituents																								
Organic Constituents																								
Volatile Organic Compounds																								
Benzene	µg/L	5*	5*	9	< 5.0	**110**	**48**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**32**	< 5.0	< 5.0	< 5.0	**190**	**500**	**550**	**6,100**	**6,200**	< 5.0
Carbon Disulfide	µg/L	4,000*	4,000*	4,000*	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 250	< 5.0
Ethylbenzene	µg/L	700*	700*	2,300	< 5.0	53	< 5.0	< 5.0	< 5.0	20	< 5.0	< 5.0	< 5.0	< 5.0	250	< 5.0	< 5.0	< 5.0	97	520	570	1,600	1,600	< 5.0
Toluene	µg/L	1,000*	1,000*	1,100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 250	< 5.0
Total Xylenes	µg/L	10,000	31,000	200,000	< 5.0	21	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	6.8	< 5.0	< 5.0	< 5.0	7.6	41	42	620	640	< 5.0
Semivolatile Organic Compounds																								
Acenaphthene	µg/L	2,000*	2,000*	6,100	< 0.50	47	< 0.50	< 0.50	< 0.50	6.3	< 0.50	< 0.50	< 0.50	< 0.50	67	< 0.50	< 0.50	< 0.50	35	40	67	110	110	4.2
Acenaphthylene	µg/L	470	470	3,100	< 1.0	7.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.7	< 1.0	< 1.0	< 1.0	2.2	2.3	3.7	< 1.0	< 1.0	< 1.0
Anthracene	µg/L	4,700	4,700	31,000	< 0.050	3.2	< 0.050	< 0.050	< 0.050	0.22	< 0.050	< 0.050	< 0.050	< 0.050	6.4	< 0.050	< 0.050	< 0.050	2.2	2.2	3.7	4.6	5.5	0.088
Benzo[a]anthracene	µg/L	0.10	1.17	3.92	< 0.050	**0.21**	< 0.050	< 0.050	< 0.050	< 0.050	0.10	< 0.050	< 0.050	< 0.050	**0.22**	< 0.050	< 0.050	< 0.050	0.069	0.067	0.11	< 0.050	< 0.050	< 0.050
Benzo[a]pyrene	µg/L	0.2*	0.2*	0.39	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.054	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo[b]fluoranthene	µg/L	0.20	1.17	3.92	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	µg/L	10	10	10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	µg/L	11.7	11.7	39.2	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.054	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Chrysene	µg/L	0.20	117	392	< 0.050	**0.21**	< 0.050	< 0.050	< 0.050	< 0.050	0.10	< 0.050	< 0.050	< 0.050	**0.21**	< 0.050	< 0.050	< 0.050	0.071	0.056	0.096	< 0.050	< 0.050	< 0.050
Dibenz(a,h)anthracene	µg/L	0.3*	0.3*	0.39	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,4-Dimehylphenol	µg/L	700*	700*	700*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	1,000*	4,100	< 0.10	6.5	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	5.1	< 0.10	< 0.10	< 0.10	3.7	2.6	4.2	1.2	1.5	< 0.10
Fluorene	µg/L	1,000*	1,000*	4,100	< 0.10	43	< 0.10	< 0.10	< 0.10	1	< 0.10	< 0.10	< 0.10	< 0.10	21	< 0.10	< 0.10	< 0.10	24	12	20	26	27	0.86
Indeno[1,2,3-cd]pyrene	µg/L	0.40	1.17	3.92	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Methylphenol	µg/L	780	780	5,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	78	510	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	20*	< 0.50	**1,100**	1.5	< 0.50	< 0.50	**49**	< 0.50	< 0.50	< 0.50	< 0.50	**1,300**	< 0.50	< 0.50	< 0.50	**880**	**1,300**	**2,300**	**3,300**	**4,000**	0.77
Phenanthrene	µg/L	470	470	3,100	< 0.050	14	< 0.050	< 0.050	< 0.050	0.65	< 0.050	< 0.050	< 0.050	< 0.050	31	< 0.050	< 0.050	< 0.050	6.1	11	18	26	28	0.089
Phenol	µg/L	4,000	9,390	61,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	µg/L	1,000*	1,000*	3,100	0.052	8.5	< 0.050	< 0.050	< 0.050	0.11	0.11	< 0.050	< 0.050	< 0.050	7.9	< 0.050	< 0.050	< 0.050	4.8	4.8	5.7	1.5	1.9	< 0.050
Laboratory Results - Inorganic Constituents																								
Antimony	µg/L	6.0	6.3	400	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Arsenic	µg/L	10	50*	50*	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	2,000	7,200	659	1160	95.7	1380	65.8	**2970**	277	965	542	798	2800	194	68.4	905	2050	5340	5280	**4170**	**4240**	107
Beryllium	µg/L	4.0	31	200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Cadmium	µg/L	5.0	7.8	51	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium	µg/L	100	100	310	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	1300	630	4,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	15*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	100	2,000	23.4	< 20	< 20	29.6	< 20	< 20	< 20	30.2	24	33.6	75.6	< 20	< 20	20.1	< 20	77.7	80.3	< 20	< 20	< 20
Zinc	µg/L	2,000	4,700	31,000	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Mercury	µg/L	2*	2*	2*	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Total Cyanide	µg/L	200	310	2,000	< 10	34	11	< 10	< 10	< 10	< 10	< 10	73	< 10	< 10	< 10	< 10	< 10	22	< 10	< 10	13	17	< 10

Notes:
* Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.
Analyte concentration exceeds the Type 1 RRS
Analyte concentration exceeds the residential (Type 2) RRS

Table 5-3
Bedrock Groundwater Analytical Results
February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant
Macon, Georgia

Parameter	Units	Type 1 (Residential) RRS	Type 2 (Residential) RRS	Type 4 (Non-residential) RRS	MW-206D	MW-207D	MW-300D	MW-301D	MW-302D	MW-302DD	MW-304D	MW-305D	MW-306D		MW-307D	MW-308D
					02/23/18	02/22/18	02/22/18	02/22/18	02/21/18	02/22/18	02/21/18	02/27/18	02/21/18	DUP-1	02/21/18	02/20/18
			Applicable RRS		Type 4	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4		Type 4	Type 4
Groundwater Elevation	ft. AMSL	N/A	N/A	N/A												
Field Groundwater Quality Parameters																
pH	SU	N/A	N/A	N/A	6.28	6.89	6.05	5.9	5.67	7.25	6.38	13.23	11.58		12.75	12.52
Specific Conductance	µS/cm	N/A	N/A	N/A	530.13	587.4	351.8	1,023	1,603	944	838.6	4,688.54	1,416.35		8,615.69	5,136.1
Temperature	°Celsius	N/A	N/A	N/A	23.34	21.44	25.23	19.27	22.31	20.39	21.72	21.39	21.19		23.97	21.72
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	N/A	0.05	0.2	0.12	1.48	1.59	0.94	0.15	3.71	6.45		0.54	4.97
Oxidation-Reduction Potential (ORP)	mV	N/A	N/A	N/A	-12	-88.7	46.4	5	-2.7	-66.8	59.7	9.8	118.5		-2.1	153.1
Turbidity	NTU	N/A	N/A	N/A	11.65	1.73	1.06	4.3	0.91	0.63	36.2	1.53	1.61		0.95	5.4
Laboratory Results - Natural Attenuation Parameters																
Nitrogen, Nitrate	mg/L	N/A	N/A	N/A	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 5.0	< 0.25	< 0.25	< 12	< 5.0
Sulfate	mg/L	N/A	N/A	N/A	120	3.9	2.2	87	660	< 1.0	1.3	< 20	< 10	< 10	< 50	< 20
Sulfide	mg/L	N/A	N/A	N/A	< 2.0	2.0	< 2.0	< 2.0	< 2.0	4.4	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ferrous Iron	mg/L	N/A	N/A	N/A	< 0.100	0.56	4.23	3.82	7.02	< 0.100	< 0.500	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100
Total Iron	mg/L	N/A	N/A	N/A	7.55	6.52	4.93	4.64	7.03	< 0.100	3.19	< 0.100	< 0.100	< 0.100	< 0.100	0.175
Carbon Dioxide	mg/L	N/A	N/A	N/A	110	61	58	130	180	11	28	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methane	mg/L	N/A	N/A	N/A	0.23	0.69	0.048	0.096	0.039	2	0.016	0.007	0.016	0.018	0.11	0.018
Dissolved Nitrogen	mg/L	N/A	N/A	N/A	16	21	18	16	17	19	17	18	16	16	18	16
Dissolved Oxygen	mg/L	N/A	N/A	N/A	6	6.6	4.2	2.2	2.9	2.6	4	6.6	8.9	8.3	7.3	6.4
Laboratory Results - Organic Constituents																
Organic Constituents																
Volatile Organic Compounds																
Benzene	µg/L	5*	5*	9	**11**	< 5.0	< 5.0	< 5.0	< 5.0	**26**	< 5.0	**3,500**	8	8.4	< 5.0	**15**
Carbon Disulfide	µg/L	4,000*	4,000*	4,000*	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/L	700*	700*	2,300	68	< 5.0	< 5.0	< 5.0	< 5.0	26	< 5.0	94	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,000*	1,100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**1,600**	< 5.0	< 5.0	< 5.0	< 5.0
Total Xylenes	µg/L	10,000	31,000	200,000	6.2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	380	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																
Acenaphthene	µg/L	2,000*	2,000*	6,100	12	1.7	< 0.50	0.78	4.8	2.7	< 0.50	5.5	0.76	0.55	1.5	< 0.50
Acenaphthylene	µg/L	470	470	3,100	1.2	< 1.0	< 1.0	< 1.0	7.7	2.2	< 1.0	59	< 1.0	< 1.0	< 1.0	< 1.0
Anthracene	µg/L	4,700	4,700	31,000	0.46	< 0.050	< 0.050	0.21	2.3	< 0.050	< 0.050	1.6	0.091	< 0.050	0.31	0.088
Benzo[a]anthracene	µg/L	0.10	1.17	3.92	**0.12**	< 0.050	< 0.050	< 0.050	0.074	< 0.050	< 0.050	0.09	< 0.050	< 0.050	< 0.050	< 0.050
Benzo[a]pyrene	µg/L	0.2*	0.2*	0.39	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo[b]fluoranthene	µg/L	0.20	1.17	3.92	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.12	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	µg/L	10	10	10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	µg/L	11.7	11.7	39.2	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Chrysene	µg/L	0.20	117	392	0.10	< 0.050	< 0.050	< 0.050	0.065	< 0.050	< 0.050	0.12	< 0.050	< 0.050	< 0.050	< 0.050
Dibenz(a,h)anthracene	µg/L	0.3*	0.3*	0.39	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,4-Dimehylphenol	µg/L	700*	700*	700*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	1,000*	4,100	0.5	1.1	< 0.10	0.15	1.7	< 0.10	< 0.10	1.2	0.1	< 0.10	0.28	< 0.10
Fluorene	µg/L	1,000*	1,000*	4,100	4.5	0.49	< 0.10	3.8	7.7	1.2	< 0.10	12	0.39	0.28	0.4	< 0.10
Indeno[1,2,3-cd]pyrene	µg/L	0.40	1.17	3.92	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Methylphenol	µg/L	780	780	5,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	78	510	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	20*	**330**	< 0.50	< 0.50	2.6	16	**30**	< 0.50	**3,000**	< 0.50	< 0.50	1.6	4.5
Phenanthrene	µg/L	470	470	3,100	2.4	< 0.050	< 0.050	0.24	9.8	0.14	< 0.050	14	0.39	0.32	2.9	0.22
Phenol	µg/L	4,000	9,390	61,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	36	< 10	< 10	< 10	< 10
Pyrene	µg/L	1,000*	1,000*	3,100	4.3	2.3	< 0.050	0.13	2.1	0.15	< 0.050	1.8	0.13	0.11	0.34	0.05
Laboratory Results - Inorganic Constituents																
Antimony	µg/L	6.0	6.3	400	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Arsenic	µg/L	10	50*	50*	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	2,000	7,200	358	2740	1140	188	49.6	879	3650	310	101	103	980	336
Beryllium	µg/L	4.0	31	200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Cadmium	µg/L	5.0	7.8	51	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium	µg/L	100	100	310	< 10	< 10	< 10	< 10	< 10	< 10	< 10	11.3	22.5	22	69.4	40.6
Copper	µg/L	1300	630	4,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	13.7	32.8	32.1	12.6	< 10
Lead	µg/L	15*	15*	15*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	100	2,000	20.2	49	< 20	40.6	45	34.6	42.7	< 20	23.3	41.9	< 20	< 20
Zinc	µg/L	2,000	4,700	31,000	< 20	< 20	687	20.3	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Mercury	µg/L	2*	2*	2*	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Total Cyanide	µg/L	200	310	2,000	< 10	17	< 10	64	**389**	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
* Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the
Analyte concentration exceeds the Type 1 RRS
Analyte concentration exceeds the residential (Type 2) RRS

Table 6-1
Soil Stockpile Sample Results
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter		Benzene	Ethylbenzene	Toluene	Xylenes, Total	Carbon Disulfide	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) flouranthene	Benzo(g,h,i) perylene	Benzo(k) flouranthene	Chrysene	Dibenz(a,h) anthracene
Type 1 RRS		0.5	70	100	1,000	400	300	130	500	5	1.64	5	500	5	5	2
Type 2 RRS		5	1,600	680	160,000	400	4,700	2,300	23,000	12	1.64	12	2,300	120	1,200	12
Type 4 RRS		5	1,600	680	160,000	400	4,700	2,300	23,000	12	8	78	2,300	780	7,840	78
Sample ID	Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SSS-01-20150630-01	6/30/2015	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0076	< 0.90	< 1.8	0.90	2.9	2.7	3.8	1.7	1.3	3.2	0.61
SSS-02-20150630-01	6/30/2015	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0073	< 0.96	< 1.9	0.72	2.0	1.2	1.3	0.59	0.64	2.1	0.34
SSS-03-20150630-01	6/30/2015	< 0.0033	< 0.0033	< 0.0033	< 0.0033	< 0.0067	< 0.96	< 1.9	0.99	4.3	3.1	4.3	1.7	1.5	5.0	0.72
SSS-04-20150630-01	6/30/2015	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0076	< 0.19	< 0.37	0.15	0.41	0.42	0.64	0.29	0.28	0.51	0.099
SSS-05-20150708-01	7/8/2015	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0084	< 0.018	0.061	0.025	0.084	0.064	0.14	0.041	0.035	0.068	0.012
SSS-06-20150708-01	7/8/2015	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0086	< 0.023	0.062	0.038	0.18	0.13	0.31	0.13	0.082	0.15	0.036
SSS-07-20150708-01	7/8/2015	< 0.0039	< 0.0039	< 0.0039	< 0.0039	< 0.0078	< 0.019	< 0.036	0.011	0.050	0.041	0.089	0.031	0.022	0.042	0.0083
SSS-08-20150714-01	7/14/2015	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.013	0.045	0.058	0.14	0.41	0.33	0.51	0.27	0.17	0.43	0.065
SSS-09-20150714-01	7/14/2015	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.011	< 0.020	0.080	0.10	0.41	0.34	0.49	0.29	0.17	0.36	0.084
SSS-10-20150714-01	7/14/2015	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.010	0.020	0.057	0.067	0.38	0.26	0.32	0.23	0.11	0.30	0.061
SSS-11-20150714-01	7/14/2015	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.010	0.057	0.073	0.16	0.59	0.38	0.28	0.30	0.20	0.55	0.088
SSS-12-20150716-01	7/16/2015	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.011	< 0.019	0.038	0.048	0.17	0.10	0.19	0.077	0.063	0.16	0.014
SSS-13-20150716-01	7/16/2015	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.012	< 0.022	0.10	0.098	0.35	0.27	0.42	0.19	0.12	0.38	0.038
SSS-14-20150716-01	7/16/2015	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0075	0.029	0.12	0.10	0.30	0.18	0.32	0.11	0.078	0.32	0.030
SSS-15-20150716-01	7/16/2015	< 0.0031	< 0.0031	< 0.0031	< 0.0031	< 0.0062	< 0.019	0.051	0.044	0.28	0.17	0.25	0.10	0.066	0.22	0.030
SSS-16-20150718-01	7/18/2015	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0075	0.16	0.093	0.35	1.1	0.65	1.5	0.34	0.33	0.85	0.16
SSS-17-20150718-01	7/18/2015	< 0.0077	< 0.0077	< 0.0077	< 0.0077	< 0.015	0.11	0.27	0.25	0.52	0.25	0.41	0.13	0.10	0.45	0.043
SSS-18-20150729-01	7/29/2015	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0083	< 0.018	0.078	0.070	0.32	0.22	0.36	0.12	0.11	0.28	0.031
SSS-19-20150729-01	7/29/2015	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0076	< 0.019	0.054	0.064	0.34	0.25	0.41	0.19	0.13	0.30	0.051
SSS-20-20150729-01	7/29/2015	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.011	< 0.018	0.068	0.062	0.28	0.34	0.47	0.29	0.15	0.36	0.056
SSS-21-20150729-01	7/29/2015	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0074	0.074	0.12	0.22	0.51	0.54	0.78	0.32	0.21	0.64	0.088
SSS-22-20150729-01	7/29/2015	< 0.0047	< 0.0047	< 0.0047	0.0080	< 0.0095	< 0.021	< 0.040	0.0082	0.046	0.034	0.061	0.031	0.018	0.040	0.0056
SSS-23-20150731-01	7/31/2015	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0087	0.032	0.077	0.11	0.32	0.35	0.42	0.24	0.15	0.53	0.058
SSS-24-20150729-01	7/31/2015	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0084	< 0.019	< 0.036	0.04	0.19	0.13	0.23	0.10	0.058	0.16	0.022
SSS-25-20150729-01	7/31/2015	< 0.0039	< 0.0039	< 0.0039	< 0.0039	< 0.0079	0.019	0.083	0.099	0.30	0.31	0.45	0.24	0.14	0.55	0.058
SSS-26-20150729-01	7/31/2015	< 0.0041	< 0.0041	0.0044	< 0.0041	< 0.0083	0.046	0.075	0.15	0.40	0.45	0.68	0.31	0.19	0.65	0.082
SSS-27-20150729-01	7/31/2015	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0091	< 0.019	0.084	0.11	0.22	0.28	0.38	0.20	0.11	0.36	0.060
SSS-28-20150729-01	7/31/2015	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0099	0.022	0.14	0.14	0.48	0.75	0.99	0.68	0.28	0.93	0.15
SSS-29-20150729-01	7/31/2015	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.071	0.21	0.20	0.44	0.24	0.47	0.16	0.15	0.84	0.078
SSS-30-20150729-01	7/31/2015	< 0.0047	< 0.0047	< 0.0047	< 0.0047	0.017	0.63	1.1	1.2	2.2	0.58	1.8	0.32	0.34	2.6	0.22
SSS-31-20150729-01	7/31/2015	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0077	< 0.019	0.077	0.061	0.20	0.12	0.19	0.050	0.046	0.17	0.019
SSS-32-20150729-01	7/31/2015	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0079	0.17	0.59	0.56	1.50	0.49	1.3	0.29	0.27	1.8	0.16
SSS-33-20150818-01	8/18/2015	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0068	< 0.020	< 0.038	0.033	0.088	0.040	0.049	0.015	0.012	0.070	0.0050
SSS-34-20150818-01	8/18/2015	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.012	< 0.022	< 0.043	0.0072	0.025	0.019	0.026	0.0082	0.0070	0.022	< 0.0043
SSS-35-20150818-01	8/18/2015	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.010	< 0.021	< 0.041	0.011	0.043	0.030	0.045	0.015	0.013	0.037	0.0046
SSS-36-20150818-01	8/18/2015	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0091	< 0.019	< 0.037	0.017	0.062	0.037	0.066	0.020	0.018	0.061	0.0081
SSS-37-20150818-01	8/18/2015	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.010	< 0.022	< 0.042	0.017	0.069	0.049	0.089	0.031	0.024	0.066	0.0089
PRE-ISS-20150909-01	9/9/2015	< 0.004	< 0.004	< 0.004	0.01	< 0.0079	< 0.02	< 0.038	0.0038	0.01	0.01	0.01	0.01	0.0027	0.01	< 0.0038
PRE-ISS-20150911-01	9/11/2015	0.04	0.25	0.19	1.50	< 0.009	0.42	0.29	0.63	0.97	0.40	0.59	0.15	0.17	1.10	0.075
PRE-ISS-20150911-02	9/11/2015	< 0.0033	< 0.0033	< 0.0033	0.01	< 0.0066	< 2.10	< 4.0	1.00	1.10	0.680	0.720	0.280	0.200	0.960	0.071
PRE-ISS-20150911-03	9/11/2015	0.093	1.70	3.0	11.0	0.014	4.50	6.10	3.90	4.10	2.20	2.50	1.00	0.390	4.00	0.22
PISS-1-20150922-01	9/22/2015	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0088	< 0.02	0.075	0.08	0.38	0.36	0.47	0.28	0.17	0.34	0.047
PISS-2-20150922-01	9/22/2015	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0073	0.021	0.095	0.10	0.46	0.35	0.56	0.29	0.16	0.45	0.058
PISS-3-20150922-01	9/22/2015	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0095	0.032	0.15	0.14	0.46	0.32	0.47	0.29	0.18	0.40	0.067
PISS-4-20150922-01	9/22/2015	< 0.0045	< 0.0045	< 0.0045	0.0097	< 0.0090	0.033	0.17	0.14	0.80	0.54	0.86	0.40	0.26	0.65	0.099
PISS-5-20150922-01	9/22/2015	0.350	2.50	6.20	22.0	< 0.0065	4.40	4.50	2.40	2.10	0.86	0.85	0.19	0.210	1.60	0.10
PISS-6-20150923-01	9/23/2015	< 0.0039	< 0.0039	< 0.0039	0.013	0.0078	0.11	0.25	0.14	0.61	0.39	0.44	0.14	0.140	0.46	0.07
SSS-38-20150923-01	9/23/2015	< 0.0042	0.14	< 0.0042	0.13	< 0.0085	0.086	0.12	0.16	0.43	0.25	0.33	0.11	0.100	0.41	0.038
SSS-39-20150923-01	9/23/2015	< 0.0031	< 0.0031	< 0.0031	< 0.0031	< 0.0062	< 0.0021	0.058	0.06	0.26	0.14	0.23	0.075	0.059	0.21	0.023
PISS-6-20150929-01	9/29/2015	< 0.0041	< 0.0041	< 0.0041	0.0042	< 0.0083	0.030	< 0.042	0.056	0.070	0.028	0.034	0.0097	0.010	0.055	< 0.0042
PreISS-7-20151007-01	10/7/2015	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0081	< 0.0022	< 0.043	0.0096	0.033	0.015	0.017	< 0.0043	0.0049	0.024	< 0.0043
SSS-40-20151007-01	10/7/2015	< 0.0044	< 0.0044	0.0066	0.024	< 0.0087	0.097	0.10	0.12	0.30	0.19	0.30	0.093	0.073	0.23	0.024
SSS-41-20151007-01	10/7/2015	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0090	0.076	0.26	0.18	0.66	0.55	0.76	0.40	0.24	0.64	0.096
SSS-42-20151008-01	10/8/2015	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0075	< 0.0021	< 0.0040	0.0085	0.035	0.026	0.041	0.014	0.011	0.027	< 0.0040
SSS-43-20151028-01	10/28/2015	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0071	< 0.020	< 0.039	< 0.0020	0.002	0.002	0.0039	0.0039	0.002	0.002	< 0.0039
SSS-44-20151028-01	10/28/2015	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0075	< 0.020	< 0.039	< 0.0020	0.02	0.02	0.039	0.0039	0.002	0.002	< 0.0039
SSS-45-20151028-01	10/28/2015	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0069	< 0.021	<0.041	< 0.0021	0.021	0.021	0.041	0.041	0.0021	0.0021	< 0.0041
SSS-46-20151028-01	10/28/2015	< 0.0039	< 0.0039	< 0.0039	< 0.0039	< 0.0079	< 0.020	< 0.039	< 0.0020	0.02	0.02	0.039	0.0039	0.002	0.002	< 0.0039
SSS-47-20151107-01	11/1/2015	< 0.0039	< 0.0039	< 0.0039	< 0.0039	< 0.0077	0.36	0.53	0.76	2.9	2	3.4	1.4	1.1	2.9	0.47
SSS-47A-20151210-01	12/10/2015	< 0.0048	< 0.0048	0.0073	0.021	< 0.0096	0.08	0.15	0.12	0.28	0.16	0.18	0.069	0.064	0.25	0.017
HolderSand1-20160126-01	1/26/2016	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0083	< 0.021	< 0.041	0.0046	0.28	0.20	0.35	0.16	0.091	0.25	0.050
HolderSand2-20160126-01	1/26/2016	0.028	0.049	0.029	0.11	< 0.0073	< 0.021	< 0.041	0.014	0.092	0.07	0.12	0.048	0.03	0.097	0.021

< Type 1
< Type 2, but >Type 1
< Type 4, but >Type 2
> Type 4

"<" Gray font - analyte was not detected above laboratory detection limit
0.083 Black font - analyte was detected above laboratory detection limit
*Most conservative # used between surface and subsurface values for each respective RRS

Table 6-1
Soil Stockpile Sample Results
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter		2,4,-Dimethylphenol	Fluoranthene	Flourene	Indeno(1,2,3-cd) pyrene	2-Methyphenol	3&4 Methylphenol	Naphthalene	Phenanthrene	Phenol	Pyrene	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury	Cyanide
Type 1 RRS		70	500	360	5	4	4	100	110	400	500	4	20	1,000	2	2	100	170	75	50	100	0.5	20
Type 2 RRS		1,600	3,100	3,100	12	3,900	390	100	2,300	47,000	2,300	31	25	5,400	160	39	230	3,100	400	1,600	23,000	24	1,600
Type 4 RRS		1,600	17,000	17,000	78	3,900	390	100	13,000	47,000	13,000	31	38	5,400	160	39	1,200	3,100	1,100	1,600	23,000	24	1,600
Sample ID	Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SSS-01-20150630-01	6/30/2015	< 0.35	5.2	0.35	1.5	< 0.35	< 0.35	< 0.90	3.8	< 0.35	4.8	< 4.94	< 4.94	68.9	< 2.47	< 2.47	17.9	10.3	43.3	< 4.94	122	0.128	< 1.06
SSS-02-20150630-01	6/30/2015	< 0.37	2.2	0.36	0.57	< 0.37	< 0.37	< 0.96	1.8	< 0.37	3.8	< 5.27	< 5.27	45.3	< 2.64	< 2.64	13.5	6.79	14.2	< 5.27	17	0.135	< 1.12
SSS-03-20150630-01	6/30/2015	< 0.37	5.9	0.34	1.6	< 0.37	< 0.37	< 0.96	3.7	< 0.37	7.1	< 5.38	6.19	89.8	< 2.69	< 2.69	12.3	20.3	160	< 5.38	40.9	0.157	< 1.13
SSS-04-20150630-01	6/30/2015	< 0.37	0.78	0.070	0.26	< 0.37	< 0.37	< 0.19	0.52	< 0.37	0.68	< 5.36	< 5.36	39.4	< 2.68	< 2.68	16.7	8.1	13.1	< 5.39	14.4	< 0.102	< 1.11
SSS-05-20150708-01	7/8/2015	< 0.35	0.094	0.0080	0.039	< 0.35	< 0.35	< 0.018	0.028	< 0.35	0.12	< 4.93	< 4.93	31.6	< 2.46	< 2.46	10.3	14.3	27.5	< 4.93	15.7	< 0.103	< 1.06
SSS-06-20150708-01	7/8/2015	< 0.44	0.19	0.0074	0.12	< 0.44	< 0.44	< 0.023	0.063	< 0.44	0.23	< 6.4	< 6.40	26.3	< 3.2	< 3.2	16.1	9.97	12	< 6.40	11.3	< 0.118	< 1.34
SSS-07-20150708-01	7/8/2015	< 0.36	0.062	< 0.036	0.028	< 0.36	< 0.36	< 0.019	0.018	< 0.36	0.069	< 5.25	< 5.25	16.4	< 2.63	< 2.63	9.99	5.74	7.36	< 5.25	7.57	< 0.102	< 1.10
SSS-08-20150714-01	7/14/2015	< 0.46	0.69	0.053	0.22	< 0.46	< 0.46	0.068	0.51	< 0.46	0.65	< 6.74	< 6.74	45.9	< 3.37	< 3.37	17.0	28.1	121	< 6.74	32.4	< 0.134	< 1.40
SSS-09-20150714-01	7/14/2015	< 0.40	0.66	0.022	0.26	< 0.40	< 0.40	0.026	0.33	< 0.40	0.68	< 5.62	< 5.62	34.3	< 2.81	< 2.81	13.4	13.6	40.7	< 5.62	27.2	< 0.396	< 1.20
SSS-10-20150714-01	7/14/2015	< 0.38	0.43	0.022	0.19	< 0.38	< 0.38	0.027	0.29	< 0.38	0.46	< 5.56	< 5.56	39.7	< 2.78	< 2.78	12.0	19.4	38.7	< 5.56	24.2	0.134	< 1.14
SSS-11-20150714-01	7/14/2015	< 0.44	0.92	0.076	0.28	< 0.44	< 0.44	0.13	0.60	< 0.44	0.83	< 6.57	< 6.57	49.8	< 3.28	< 3.28	14.3	27.1	65.6	< 6.57	45.9	< 0.128	< 1.34
SSS-12-20150716-01	7/16/2015	< 0.37	0.19	0.0097	0.070	< 0.37	< 0.37	0.022	0.26	< 0.37	0.21	< 5.6	< 5.60	21.9	< 2.8	< 2.8	13.2	9.17	18.8	< 5.60	11.0	< 0.102	< 1.13
SSS-13-20150716-01	7/16/2015	< 0.42	0.43	0.023	0.16	< 0.42	< 0.42	0.030	0.41	< 0.42	0.47	< 6.29	< 6.29	35.9	< 3.14	< 3.14	16.0	15.5	30.3	< 6.29	24.2	< 0.126	< 1.29
SSS-14-20150716-01	7/16/2015	< 0.36	0.35	0.038	0.10	< 0.36	< 0.36	0.024	0.53	< 0.36	0.45	< 5.4	< 5.40	41.0	< 2.7	< 2.7	13.9	9.01	23.7	< 5.40	17.3	< 0.104	< 1.09
SSS-15-20150716-01	7/16/2015	< 0.37	0.23	0.014	0.093	< 0.37	< 0.37	< 0.019	0.26	< 0.37	0.30	< 5.38	< 5.38	23.7	< 2.69	< 2.69	10.6	5.84	13.9	< 5.38	10.6	< 0.108	< 1.11
SSS-16-20150718-01	7/18/2015	< 0.35	1.8	0.23	0.33	< 0.35	< 0.35	0.33	1.6	< 0.35	1.4	< 5.19	< 5.19	39.4	< 2.6	< 2.6	10.9	15.8	46.9	< 5.19	25.2	< 0.100	< 1.07
SSS-17-20150718-01	7/18/2015	< 0.41	0.61	0.16	0.13	< 0.41	< 0.41	0.033	1.5	< 0.41	0.79	< 5.92	< 5.92	50.8	< 2.96	< 2.96	16.8	6.90	18.9	< 5.92	21.7	< 0.122	< 1.24
SSS-18-20150729-01	7/29/2015	< 0.36	0.41	0.019	0.10	< 0.36	< 0.36	0.024	0.33	< 0.36	0.44	< 5.1	< 5.10	48.3	< 2.55	< 2.55	16.0	8.70	30.1	< 5.10	29.7	< 0.108	< 1.08
SSS-19-20150729-01	7/29/2015	< 0.36	0.54	0.021	0.16	< 0.36	< 0.36	0.028	0.24	< 0.36	0.51	< 5.39	< 5.39	54.6	< 2.7	< 2.7	18.3	20.8	60.0	< 5.39	75.0	0.205	< 1.10
SSS-20-20150729-01	7/29/2015	< 0.36	0.57	0.015	0.24	< 0.36	< 0.36	0.051	0.23	< 0.36	0.58	< 5.03	< 5.03	40.3	< 2.52	< 2.52	10.3	20.4	54.6	< 5.03	41.9	0.107	< 1.08
SSS-21-20150729-01	7/29/2015	< 0.36	1.0	0.094	0.31	< 0.36	< 0.36	0.27	0.71	< 0.36	0.99	< 5.29	< 5.29	38.1	< 2.64	< 2.64	14.3	13.7	42.9	< 5.29	59.5	< 0.103	< 1.10
SSS-22-20150729-01	7/29/2015	< 0.40	0.074	< 0.0040	0.025	< 0.40	< 0.40	< 0.021	0.036	< 0.40	0.080	< 5.82	< 5.82	36.2	< 2.91	< 2.91	20.8	12.5	14.1	< 5.82	17.8	< 0.115	< 1.21
SSS-23-20150731-01	7/31/2015	< 0.35	0.59	0.034	0.22	< 0.35	< 0.35	0.051	0.48	< 0.35	0.66	< 5.12	5.86	40.9	< 2.56	< 2.56	13.2	28.7	65.4	< 5.12	33.1	0.134	< 1.06
SSS-24-20150729-01	7/31/2015	< 0.36	0.25	0.013	0.085	< 0.36	< 0.36	0.027	0.20	< 0.36	0.26	< 5.06	< 5.06	29.5	< 2.53	< 2.53	14.9	11.2	25.3	< 5.06	28.8	0.367	< 1.10
SSS-25-20150729-01	7/31/2015	< 0.36	0.51	0.025	0.22	< 0.36	< 0.36	0.064	0.56	< 0.36	0.63	< 5.21	< 5.21	34.5	< 2.61	< 2.61	14.3	18.9	48.1	< 5.21	27.5	0.156	< 1.08
SSS-26-20150729-01	7/31/2015	< 0.35	0.84	0.065	0.29	< 0.35	< 0.35	0.12	0.62	< 0.35	0.78	< 4.86	< 4.86	33.5	< 2.43	< 2.43	13.6	21.2	41.9	< 4.86	24.9	< 0.102	1.21
SSS-27-20150729-01	7/31/2015	< 0.36	0.39	0.024	0.19	< 0.36	< 0.36	0.054	0.54	< 0.36	0.49	< 5.28	< 5.28	28.0	< 2.64	< 2.64	9.46	10.7	28.8	< 5.28	12.6	< 0.109	< 1.10
SSS-28-20150729-01	7/31/2015	< 0.36	1.2	0.031	0.51	< 0.36	< 0.36	0.17	0.42	< 0.36	1.3	< 5.27	< 5.27	66.9	< 2.63	< 2.63	11.4	41.0	89.8	< 5.27	63.9	0.170	< 1.08
SSS-29-20150729-01	7/31/2015	< 0.37	0.89	0.12	0.18	< 0.37	< 0.37	0.14	2.0	< 0.37	1.3	< 5.18	< 5.18	23.8	< 2.59	< 2.59	17.1	13.9	20.1	< 5.18	15.5	< 0.103	< 1.13
SSS-30-20150729-01	7/31/2015	< 0.37	4.0	0.79	0.36	< 0.37	< 0.37	0.68	15	< 0.37	4.7	< 5.39	< 5.39	29.3	< 2.7	< 2.7	25.5	13.1	22.1	< 5.39	19.6	< 0.106	< 1.13
SSS-31-20150729-01	7/31/2015	< 0.38	0.21	0.020	0.053	< 0.38	< 0.38	< 0.019	0.34	< 0.38	0.28	< 5.63	< 5.63	41.7	< 2.82	< 2.82	14.2	5.97	13.5	< 5.63	13.6	< 0.105	< 1.15
SSS-32-20150729-01	7/31/2015	< 0.38	2.3	0.24	0.30	< 0.38	< 0.38	0.22	5.0	< 0.38	3.0	< 5.45	< 5.45	26.3	< 2.73	< 2.73	31.5	13.2	13.2	< 5.45	13.8	< 0.109	< 1.15
SSS-33-20150818-01	8/18/2015	< 0.38	0.12	0.014	0.013	< 0.38	< 0.38	< 0.020	0.20	< 0.38	0.15	< 5.8	< 5.80	14.1	< 2.9	< 2.9	15.3	4.78	5.82	< 5.80	6.05	< 0.109	< 1.16
SSS-34-20150818-01	8/18/2015	< 0.43	0.025	< 0.0043	0.0077	< 0.43	< 0.43	< 0.022	0.037	< 0.43	0.030	< 6.48	< 6.48	15.8	< 3.24	< 3.24	16.8	6.57	< 6.48	< 6.48	6.51	< 0.127	< 1.31
SSS-35-20150818-01	8/18/2015	< 0.41	0.041	< 0.0041	0.013	< 0.41	< 0.41	< 0.021	0.059	< 0.41	0.052	< 6.23	< 6.23	16.2	< 3.11	< 3.11	20.8	6.83	8.71	< 6.23	8.17	< 0.110	< 1.25
SSS-36-20150818-01	8/18/2015	< 0.37	0.072	0.0053	0.019	< 0.37	< 0.37	< 0.019	0.090	< 0.37	0.091	< 5.63	< 5.63	13.5	< 2.81	< 2.81	16.3	5.72	7.32	< 5.63	6.58	< 0.112	< 1.13
SSS-37-20150818-01	8/18/2015	< 0.42	0.081	0.0048	0.029	< 0.42	< 0.42	< 0.022	0.082	< 0.42	0.095	< 6.35	< 6.35	11.3	< 3.18	< 3.18	9.8	4.68	< 6.35	< 6.35	< 6.35	< 0.125	< 1.27
PRE-ISS-20150909-01	9/9/2015	<0.38	0.02	< 0.0038	0.0048	< 0.38	< 0.38	< 0.020	0.01	< 0.38	0.015	< 4.59	< 4.59	25.0	< 2.3	< 2.3	10.2	5.18	5.50	< 4.59	6.33	<0.107	< 1.17
PRE-ISS-20150911-01	9/11/2015	< 0.42	1.60	0.47	0.18	< 0.42	< 0.42	0.25	4.3	< 0.42	1.9	< 4.73	< 4.73	25.8	< 2.37	< 2.37	14.3	7.02	6.30	< 4.73	6.58	0.13	< 1.27
PRE-ISS-20150911-02	9/11/2015	< 0.40	2.20	1.00	0.29	< 0.40	< 0.40	0.150	5.4	< 0.40	2.0	< 5.35	< 5.35	12.3	< 2.67	< 2.67	6.4	4.24	7.32	< 5.35	< 5.35	< 0.111	< 1.21
PRE-ISS-20150911-03	9/11/2015	< 0.40	7.50	5.00	0.99	< 0.40	< 0.40	15.00	28	< 0.40	7.8	< 5.79	< 5.79	32.8	< 2.9	< 2.9	9.7	5.59	< 5.79	< 5.79	6.88	< 0.120	< 1.21
PISS-1-20150922-01	9/22/2015	< 0.38	0.66	0.023	0.22	< 0.38	< 0.38	0.041	0.34	< 0.38	0.67	< 5.58	< 5.58	38.7	< 2.79	< 2.79	14.6	13.8	26.0	< 5.58	19.5	< 0.110	< 1.15
PISS-2-20150922-01	9/22/2015	< 0.37	0.77	0.027	0.24	< 0.37	< 0.37	0.04	0.42	< 0.37	0.83	< 5.16	< 5.16	30.5	< 2.58	< 2.58	16.4	11.4	23.8	< 5.16	19.0	< 0.113	< 1.14
PISS-3-20150922-01	9/22/2015	< 0.39	0.81	0.043	0.26	< 0.39	< 0.39	0.05	0.56	< 0.39	0.83	< 5.68	< 5.68	31.9	< 2.84	< 2.84	26.3	9.6	20.1	< 5.68	16.4	< 0.110	< 1.18
PISS-4-20150922-01	9/22/2015	< 0.38	1.30	0.042	0.30	< 0.38	< 0.38	0.067	0.590	< 0.38	1.40	< 5.26	< 5.26	28.0	< 2.63	< 2.63	17.6	9.43	18.2	< 5.26	13.5	< 0.112	< 1.15
PISS-5-20150922-01	9/22/2015	< 0.41	3.10	3.60	0.21	< 0.41	< 0.41	11.0	18.0	< 0.41	3.80	< 5.61	< 5.61	41.8	< 2.8	< 2.8	27.0	17.6	13.1	< 5.61	9.25	< 0.125	< 1.26
PISS-6-20150923-01	9/23/2015	< 0.41	0.51	0.12	0.17	< 0.41	< 0.41	0.07	0.44	< 0.41	0.86	< 5.97	< 5.97	41.5	< 2.98	< 2.98	23.2	12.1	11.5	< 5.97	11.3	< 0.114	< 1.23
SSS-38-20150923-01	9/23/2015	< 0.36	0.76	0.093	0.12	< 0.36	< 0.36	0.12	0.61	< 0.36	0.87	< 5.04	< 5.04	33.2	< 2.52	< 2.52	16.0	7.95	11.2	< 5.04	8.24	< 0.107	< 1.10
SSS-39-20150923-01	9/23/2015	< 0.40	0.31	0.023	0.075	< 0.40	< 0.40	< 0.021	0.25	< 0.40	0.39	< 5.8	< 5.80	33.0	< 2.9	< 2.9	16.9	9.64	13.5	< 5.80	11.1	< 0.104	< 1.22
PISS-6-20150929-01	9/29/2015	< 0.42	0.095	0.045	0.0081	< 0.42	< 0.42	< 0.021	0.35	< 0.42	0.12	< 5.88	< 5.88	29.4	< 2.94	< 2.94	16.9	9.69	7.73	< 5.88	10.9	< 0.121	<1.26
PreISS-7-20151007-01	10/7/2015	< 0.43	0.038	0.0068	0.0031	< 0.43	< 0.43	< 0.022	0.017	< 0.43	0.048	< 6.15	< 6.15	38.8	< 3.07	< 3.07	18.5	8.13	7.60	< 6.15	7.72	< 0.125	< 1.31
SSS-40-20151007-01	10/7/2015	< 0.39	0.34	0.084	0.091	< 0.39	< 0.39	0.038	0.45	< 0.39	0.44	< 5.61	< 5.61	31.8	< 2.8	< 2.8	16.1	10.9	13.5	< 5.61	11.9	< 0.110	1.86
SSS-41-20151007-01	10/7/2015	< 0.40	1.1	0.097	0.37	< 0.40	< 0.40	0.060	0.47	< 0.40	1.4	< 5.21	< 5.21	27.5	< 2.6	< 2.6	9.17	7.87	18.9	< 5.21	13.0	< 0.114	6.24
SSS-42-20151008-01	10/8/2015	< 0.40	0.049	< 0.0040	0.0012	< 0.40	< 0.40	0.0021	0.0026	< 0.40	0.056	< 5.73	< 5.73	18.1	< 2.86	< 2.86	21.3	7.11	7.42	< 5.73	10.2	< 0.108	< 1.21
SSS-43-20151028-01	10/28/2015	0.39	0.039	< 0.0039	0.002	< 0.39	< 0.39	0.02	0.002	< 0.39	0.02	< 5.18	< 5.18	< 5.18	< 2.59	< 2.59	< 2.59	< 2.59	5.18	5.18	5.18	< 0.116	< 1.19
SSS-44-20151028-01	10/28/2015	0.39	0.039	< 0.0039	0.002	< 0.39	< 0.39	0.02	0.02	< 0.39	0.02	< 5.95	< 5.95	< 5.95	< 2.97	< 2.97	< 2.97	< 2.97	5.95	5.95	5.95	< 0.118	< 1.19
SSS-45-20151028-01	10/28/2015	0.41	0.041	< 0.0041	0.0021	< 0.41	< 0.41	0.021	0.0021	< 0.41	0.021	< 6.08	< 6.08	< 6.08	< 3.04	< 3.04	< 3.04	< 3.04	6.08	6.08	6.08	< 0.123	< 1.23
SSS-46-20151028-01	10/28/2015	0.39	0.039	< 0.0039	0.002	< 0.39	< 0.39	0.02	0.002	< 0.39	0.02	< 5.65	< 5.65	< 5.65	< 2.82	< 2.82	< 2.82	< 2.82	< 5.65	< 5.65	< 5.65	< 0.115	< 1.18
SSS-47-20151107-01	11/1/2015	< 0.390	5	0.27	1.3	< 0.390	< 0.390	0.36	4	< 0.390	5	< 4.75	< 4.75	78.7	< 2.38	< 2.38	13.8	21.6	127	< 4.75	48.6	0.329	< 1.19
SSS-47A-20151210-01	12/10/2015	< 0.420	0.44	0.1	0.064	< 0.420	< 0.420	0.057	0.69	< 0.420	0.53	< 5.92	< 5.92	39.3	< 2.96	< 2.96	18.7	11.5	11.7	< 5.92	8.87	< 0.111	< 1.28
HolderSand1-20160126-01	1/26/2016	< 0.41	0.36	0.014	0.14	< 0.41	< 0.41	< 0.021	0.32	< 0.41	0.40	< 5.15	< 5.15	27.0	< 2.58	< 2.58	5.47	21.0	40.1	< 5.15	17.2	0.169	< 1.25
HolderSand2-20160126-01	1/26/2016	< 0.41	0.10	0.0065	0.047	< 0.41	< 0.41	0.029	0.11	< 0.41	0.12	< 5.54	14.8	26.6	< 2.77	< 2.77	10.6	13.6	23.8	< 5.54	13.1	< 0.116	< 1.24

< Type 1
< Type 2, but >Type 1
< Type 4, but >Type 2
> Type 4

"<" Gray font - analyte was not detected above laboratory dete
0.083 Black font - analyte was detected above laboratory detection
*Most conservative # used between surface and subsurface values fo

Table 6-2
Norfolk Southern Property
Surface Soil and Subsurface Soil Results
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

			Volatile Organic Compounds					Inorganic Compounds										
Sample ID	**Depth BGS (ft)**	**Date Sampled**	Benzene	Ethylbenzene	Toluene	Total Xylenes	Carbon Disulfide	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Cyanide, Total	Lead	Mercury	Nickel	Zinc
Residential RRS*	**Surface Soil <2 ft**		5.0	1,600	680	160,000	400	31	25	5,400	160	39	230	3,100	1,600	400	24	1,600	23,000
Non-Residential RRS**	**Surface Soil <2 ft**		5.0	1,600	680	1,600	400	31	38	5,400	160	39	1,200	3,100	1,600	1,100	24	1,600	23,000
SB-910	0-2	3/13/2013	< 0.0045	< 0.0045	< 0.0045	< 0.0091	< 0.0045	< 2.0	4.3	180	0.58	< 0.51	9.4	12	< 0.55	66	0.45	5.3	36
SB-911	0-2	3/13/2013	< 0.0043	< 0.0043	< 0.0043	< 0.0086	< 0.0043	< 2.1	4.2	230	0.61	< 0.52	9.0	10	< 0.54	100	0.41	5.0	26
SB-912	0-2	3/13/2013	0.0012	< 0.0060	< 0.0060	< 0.012	< 0.0060	5.2	23	170	1.1	< 0.56	16	150	0.88	230	0.12	9.7	200
SB-913	0-2	3/13/2013	< 0.0043	< 0.0043	< 0.0043	< 0.0086	< 0.0043	< 2.1	8.0	2.9	< 0.41	< 0.51	19	16	< 0.56	45	0.035	4.4	22
SB-914	0-2	3/13/2013	< 0.0047	< 0.0047	< 0.0047	< 0.0095	< 0.0047	5.1	18	210	4.2	< 0.55	15	96	< 0.57	170	0.052	9.2	78

			Volatile Organic Compounds					Inorganic Compounds										
Sample ID	**Depth BGS (ft)**	**Date Sampled**	Benzene	Ethylbenzene	Toluene	Total Xylenes	Carbon Disulfide	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Cyanide, Total	Lead	Mercury	Nickel	Zinc
Residential RRS*	**Subsurface Soil > 2 ft**		5.0	1,600	680	160,000	400	31	61	5,400	160	39	230	3,100	1,600	400	24	1,600	23,000
Non-Residential RRS**	**Subsurface Soil >2 ft**		5.0	1,600	680	850,000	400	31	41	5,400	160	39	1,200	3,100	1,600	1,100	24	1,600	23,000
SB-910	2-4 (DUP-07)	3/13/2013	< 0.0047	< 0.0047	< 0.0047	< 0.0093	< 0.0047	< 2.3	4.6	110	0.56	< 0.57	27	7.2	< 0.55	23	0.14	10	17
SB-910	4-8	3/13/2013	< 0.0046	< 0.0046	< 0.0046	< 0.0093	< 0.0046	< 2.1	3.5	25	< 0.42	< 0.52	12	5.4	< 0.57	7.0	0.051	< 4.2	10
SB-910	8-10	3/13/2013	< 0.0045	< 0.0045	< 0.0045	< 0.0089	< 0.0045	< 2.2	< 2.2	7.5	< 0.43	< 0.54	15	4.2	< 0.56	5.4	0.035	< 4.3	4.7
SB-911	2-4 (DUP-03)	3/13/2013	< 0.0038	< 0.0038	< 0.0038	< 0.0076	< 0.0038	< 2.0	4.0	70	0.48	< 0.49	16	7.0	< 0.55	21	0.44	6.2	16
SB-911	4-8	3/13/2013	< 0.0044	< 0.0044	< 0.0044	< 0.0089	< 0.0044	< 2.0	2.3	16	< 0.40	< 0.50	19	5.0	< 0.57	6.5	0.05	< 4.0	8.0
SB-911	8-12	3/13/2013	< 0.0047	< 0.0047	< 0.0047	< 0.0095	< 0.0047	< 2.2	< 2.2	9.6	< 0.44	< 0.55	13	3.9	< 0.57	5.9	0.054	< 4.4	5.4
SB-912	2-4	3/13/2013	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 2.1	5.7	170	0.55	< 0.53	9.0	19	< 0.55	96	0.34	4.5	160
SB-912	4-8	3/13/2013	< 0.0041	< 0.0041	< 0.0041	< 0.0083	< 0.0041	< 2.2	2.8	11	< 0.44	< 0.54	11	5.2	< 0.54	6.7	0.032	< 4.4	10
SB-912	8-12	3/13/2013	< 0.0039	< 0.0039	< 0.0039	< 0.0079	< 0.0039	< 2.1	2.8	11	< 0.43	< 0.54	15	4.8	< 0.56	6.7	0.049	< 4.3	8.7
SB-913	2-4	3/13/2013	< 0.0048	< 0.0048	< 0.0048	< 0.0096	< 0.0048	< 2.3	2.3	19	< 0.45	< 0.56	14	7.0	< 0.58	35	0.028	< 4.5	10
SB-913	4-8	3/13/2013	< 0.0039	< 0.0039	< 0.0039	< 0.0078	< 0.0039	< 2.1	4.1	27	< 0.43	< 0.53	15	5.9	< 0.54	9.1	0.077	6.0	15
SB-913	8-10	3/13/2013	< 0.0043	< 0.0043	< 0.0043	< 0.0086	< 0.0043	< 2.2	2.8	11	< 0.43	< 0.54	16	5.5	0.91	6.4	0.039	< 4.3	12
SB-914	2-4	3/13/2013	< 0.0041	< 0.0041	< 0.0041	< 0.0083	< 0.0041	< 2.1	5.4	30	0.46	< 0.53	53	6.7	< 0.56	12	0.074	6.6	16
SB-914	4-8	3/13/2013	< 0.0048	< 0.0048	< 0.0048	< 0.0096	< 0.0048	< 2.2	3.6	21	< 0.44	< 0.55	14	6.2	< 0.55	8.5	0.05	5.2	14.0
SB-914	8-10	3/13/2013	< 0.0043	< 0.0043	< 0.0043	< 0.0085	< 0.0043	< 2.2	< 2.2	9.1	< 0.44	< 0.55	16	4.9	< 0.56	5.3	< 0.022	< 4.4	7.7

Notes:
Values listed in milligrams/kilogram (mg/Kg)
Exceeds residential RRS
Higher detected concentration between primary and duplicate sample usec
Residential RRS = The higher of Type 1 or Type 2 RRS
Non-residential RRS = The higher of Type 3 or Type 4 RRS

Table 6-2
Norfolk Southern Property
Surface Soil and Subsurface Soil Results
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

			Semivolatile Organic Compounds																		
Sample ID	**Depth BGS (ft)**	**Date Sampled**	2,4-Dimethyl-phenol	2-Methyl-phenol	4-Methyl-phenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Phenol	Pyrene
Residential RRS*	**Surface Soil <2 ft**		1,600	3,900	390	4,700	2,300	23,000	12	1.6	12	2,300	120	1,200	12	3,100	3,100	12	100	2,300	47,000	2,300
Non-Residential RRS**	**Surface Soil <2 ft**		1,600	3,900	390	4,700	2,300	23,000	12	7.8	78	2,300	780	7,840	78	82,000	82,000	78	100	61,000	47,000	61,000
SB-910	0-2	3/13/2013	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
SB-911	0-2	3/13/2013	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
SB-912	0-2	3/13/2013	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	2.1	**2.5**	4.8	2.1	< 0.41	2.6	< 0.41	4.1	< 0.41	1.8	< 0.41	1.9	< 0.41	3.6
SB-913	0-2	3/13/2013	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	0.39	1.2	1.2	1.4	0.87	0.75	1.2	< 0.38	2.8	< 0.38	0.78	< 0.38	2.1	< 0.38	2.2
SB-914	0-2	3/13/2013	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	1.4	1.5	2.2	0.89	1.0	1.5	< 0.38	2.2	< 0.38	0.87	< 0.38	1.2	< 0.38	2.2

			Semivolatile Organic Compounds																		
Sample ID	**Depth BGS (ft)**	**Date Sampled**	2,4-Dimethyl-phenol	2-Methyl-phenol	4-Methyl-phenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Phenol	Pyrene
Residential RRS*	**Subsurface Soil > 2 ft**		1,600	3,900	390	4,700	2,300	23,000	12	1.6	12	2,300	120	1,200	12	3,100	3,100	12	100	2,300	47,000	2,300
Non-Residential RRS**	**Subsurface Soil >2 ft**		1,600	3,900	390	4,700	2,300	23,000	12	82	820	2,300	8,200	82,000	820	17,000	17,000	820	100	13,000	47,000	13,000
SB-910	2-4 (DUP-07)	3/13/2013	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
SB-910	4-8	3/13/2013	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
SB-910	8-10	3/13/2013	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
SB-911	2-4 (DUP-03)	3/13/2013	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
SB-911	4-8	3/13/2013	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
SB-911	8-12	3/13/2013	< 0.38	< 0.38	< 0.38	< 0.38	1.1	0.69	4.4	**2.2**	< 0.38	0.71	3.2	4.8	< 0.38	3.3	< 0.38	0.93	< 0.38	2.5	< 0.38	6.5
SB-912	2-4	3/13/2013	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
SB-912	4-8	3/13/2013	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
SB-912	8-12	3/13/2013	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
SB-913	2-4	3/13/2013	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	0.70	2.5	**2.0**	3.1	1.8	1.6	2.7	0.47	4.9	< 0.38	1.8	< 0.38	3.5	< 0.38	4.2
SB-913	4-8	3/13/2013	< 0.37	< 0.37	< 0.37	< 0.37	0.40	0.56	2.7	**2.8**	4.3	2.1	< 0.37	2.6	< 0.37	4.9	< 0.37	1.9	< 0.37	2.4	< 0.37	4.9
SB-913	8-10	3/13/2013	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
SB-914	2-4	3/13/2013	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	0.064	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	0.053	< 0.38	< 0.38	< 0.38	< 0.38
SB-914	4-8	3/13/2013	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	0.033	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
SB-914	8-10	3/13/2013	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38

Notes:
Values listed in milligrams/kilogram (mg/Kg)
Exceeds residential RRS
Higher detected concentration between primary and duplicate sample usec
Residential RRS = The higher of Type 1 or Type 2 RRS
Non-residential RRS = The higher of Type 3 or Type 4

Table 6-3
Macon-Bibb County Property - Surface Soil Confirmation Results Atlanta Gas Light Company Former Manufactured Gas Plant Site Macon, Georgia

Parameter			Benzene	Ethylbenzene	Toluene	Xylenes, Total	Carbon Disulfide	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) flouranthene	Benzo(g,h,i) perylene	Benzo(k) flouranthene	Chrysene	Dibenz(a,h) anthracene	2,4,- Dimethylphenol	Fluoranthene	Flourene	Indeno(1,2,3-cd) pyrene	Methyphen	3&4 Methylphenol	Naphthalene	Phenanthrene	Phenol	Pyrene	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Lead	Nickel	Mercury
		Type 1 RRS	0.5	70	100	1000	400	300	130	500	5.0	1.64	5	500	5.0	5.0	2.0	70	500	360	5.0	3.8	3.8	100	110	400	500	4.0	20	1000	2.0	2.4	100	170	75	50	0.5
		Type 2 RRS	5.0	1600	680	160000	400	4700	2300	23000	12	1.64	12	2300	120	1200	12	1600	3100	3100	12	3900	390	100	2300	47000	2300	31	25	5400	160	39	230	3100	400	1600	24
Sample ID	Date	Depth (ft bgs)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SCS-96-6THSW-(3')-20160119	1/19/16	3	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0077	0.031	0.12	0.25	2	1.7	2.6	1.3	0.68	1.5	0.22	< 0.43	3.5	0.12	1.2	< 0.43	< 0.43	0.39	1.1	< 0.43	3.1	< 6.07	20.2	91.8	< 3.03	< 3.03	32.2	33.4	62.7	9.85	0.645
SCS-97-6THNE-(2')-20160119	1/19/16	2	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0072	0.15	0.11	0.11	0.5	0.37	0.66	0.36	0.16	0.4	0.088	< 0.37	0.94	0.075	0.34	< 0.37	< 0.37	0.086	0.29	< 0.37	0.88	< 4.85	2.425	37.9	< 2.43	< 2.43	15.6	9.99	21.9	< 4.85	0.0995
SCS-98-6THSE-(3')-20160119	1/19/16	3	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0063	< 0.019	< 0.037	0.031	0.24	0.18	0.36	0.17	0.086	0.19	0.043	< 0.37	0.37	0.0056	0.17	< 0.37	< 0.37	0.08	0.12	< 0.37	0.32	< 5.58	2.79	84.8	< 2.79	< 2.79	9.81	11.2	30.8	< 5.58	0.113
SCS-99-6THNW-(2')-20160119	1/19/16	2	< 0.0033	< 0.0033	< 0.0033	< 0.0033	< 0.0065	< 0.019	0.051	0.037	0.36	0.37	0.62	0.4	0.16	0.31	0.09	< 0.37	0.38	0.018	0.34	< 0.37	< 0.37	0.034	0.14	< 0.37	0.35	< 5.01	2.505	28.9	< 2.5	< 2.5	11	12.4	18.4	< 5.01	< 0.0981
SCS-100-6THFL-(2')-20160119	1/19/16	2	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0076	0.33	0.27	0.86	3.5	2.9	3.7	2	1	2.6	0.47	< 0.38	5.6	0.63	1.8	< 0.38	< 0.38	2.2	3.3	< 0.38	4.5	< 5.32	2.66	56.3	< 2.66	< 2.66	11.4	19	49.9	< 5.32	0.118
SCS-04-6F-(2)-20150616-01	6/16/2015	2	--	--	--	--	--	--	--	--	1.0	1.0	--	--	--	--	--	--	1.9	--	--	--	--	--	--	--	--	2.505	13.3	--	1.25	--	--	88.4	168	--	--
SCS-05-6F-(2)-20150616-01	6/16/2015	2	--	--	--	--	--	--	--	--	2.0	1.2	--	--	--	--	--	--	2.0	--	--	--	--	--	--	--	--	2.635	12.1	--	1.32	--	--	90.3	280	--	--
SCS-06-6F-(2)-20150616-01	6/16/2015	2	--	--	--	--	--	--	--	--	0.18	0.18	--	--	--	--	--	--	0.18	--	--	--	--	--	--	--	--	2.48	2.48	--	1.24	--	--	20.4	29.8	--	--
SCS-07-6F-(2)-20150616-01	6/16/2015	2	--	--	--	--	--	--	--	--	2.1	1.9	--	--	--	--	--	--	3.2	--	--	--	--	--	--	--	--	2.535	21.3	--	1.27	--	--	74.2	115	--	--
SCS-08-6F-(2)-20150616-01	6/16/2015	2	--	--	--	--	--	--	--	--	0.175	0.175	--	--	--	--	--	--	0.175	--	--	--	--	--	--	--	--	2.43	2.425	--	1.22	--	--	23.8	32.7	--	--
SCS-10-6F-(2)-20150616-01	6/16/2015	2	--	--	--	--	--	--	--	--	0.185	0.185	--	--	--	--	--	--	0.185	--	--	--	--	--	--	--	--	2.7	19.4	--	1.35	--	--	162	500	--	--
SCS-11-6F-(2)-20150616-01	6/16/2015	2	--	--	--	--	--	--	--	--	0.185	0.185	--	--	--	--	--	--	0.185	--	--	--	--	--	--	--	--	2.635	19.5	--	1.32	--	--	174	410	--	--
SCS-14-6F-(2)-20150616-01	6/16/2015	2	--	--	--	--	--	--	--	--	0.175	0.175	--	--	--	--	--	--	0.44	--	--	--	--	--	--	--	--	2.54	13.8	--	1.27	--	--	51.1	83.1	--	--
SCS-15-6F-(2)-20150616-01	6/16/2015	2	--	--	--	--	--	--	--	--	0.75	0.69	--	--	--	--	--	--	1.1	--	--	--	--	--	--	--	--	2.52	2.52	--	1.26	--	--	7.77	33.5	--	--
SCS-16-6F-(2)-20150616-01	6/16/2015	2	--	--	--	--	--	--	--	--	0.51	0.54	--	--	--	--	--	--	0.78	--	--	--	--	--	--	--	--	2.665	2.665	--	1.33	--	--	8.96	9.99	--	--
SCS-01A-6F-(2)-20160212-01	2/12/2016	2	--	--	--	--	--	--	--	--	0.0042	0.0039	--	--	--	--	--	--	0.0067	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SCS-02A-6F-(2)-20160211-01	2/11/2016	2	--	--	--	--	--	--	--	--			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.57	--	--	--	--	--	--	--	--	--
SCS-03A-6F-(2)-20160212-01	2/12/2016	2	--	--	--	--	--	--	--	--	0.0092	0.0096	--	--	--	--	--	--	0.015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SCS-09A-6F-(2)-20160212-01	2/12/2016	2	--	--	--	--	--	--	--	--	0.11	0.094	--	--	--	--	--	--	0.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SCS-12A-6F-(2)-20160212-01	2/12/2016	2	--	--	--	--	--	--	--	--		0.095	--	--	--	--	--	--	0.21	--	--	--	--	--	--	--	--	--	2.76	2.76	--	--	--	--	7.13	--	--
SCS-13A-6F-(2)-20160212-01	2/12/2016	2	--	--	--	--	--	--	--	--		0.00095	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.74	--	--	--	--	--	--	--	--
SCS-17A-6W-(2)-20160211-01	2/11/2016	2	--	--	--	--	--	--	--	--	0.015	0.013	--	--	--	--	--	--	0.029	--	--	--	--	--	--	--	--	--	2.63	--	--	--	--	--	--	--	--
SCS-27-2F-(2)-20150625-01	6/25/2015	2	--	--	--	--	--	--	--	--	< 0.37	< 0.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 5.2	--	--	--	--	--	--	--	--
SCS-28-2F-(2)-20150625-01	6/25/2015	2	--	--	--	--	--	--	--	--	< 0.38	< 0.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 5.3	--	--	--	--	--	--	--	--
SCS-29-2F-(2)-20150625-01	6/25/2015	2	--	--	--	--	--	--	--	--	1.7	1.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.76	--	--	--	--	--	--	--	--
SCS-30-2F-(2)-20150625-01	6/25/2015	2	--	--	--	--	--	--	--	--	< 0.37	< 0.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 5.3	--	--	--	--	--	--	--	--
SCS-31-2F-(2)-20150625-01	6/25/2015	2	--	--	--	--	--	--	--	--	< 0.38	< 0.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 5.52	--	--	--	--	--	--	--	--
SCS-32-2F-(2)-20150625-09	6/25/2015	2	--	--	--	--	--	--	--	--	< 0.36	< 0.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 5.09	--	--	--	--	--	--	--	--
SCS-33-2W-(0'-2')-20150625-01	6/25/2015	0-2	--	--	--	--	--	--	--	--	3	3.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.61	--	--	--	--	--	--	--	--
SCS-34-2W-(0'-2')-20150625-01	6/25/2015	0-2	--	--	--	--	--	--	--	--	4.1	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	34.3	--	--	--	--	--	--	--	--
SCS-91-2W-(0'-2')-20160119-01	1/19/2016	0-2	--	--	--	--	--	--	--	--	0.25	0.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 5.48	--	--	--	--	--	--	--	--
SCS-92-2W-(0'-2')-20160119-01	1/19/2016	0-2	--	--	--	--	--	--	--	--	0.37	0.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 4.23	--	--	--	--	--	--	--	--
SCS-93-2W-(0'-2')-20160119-01	1/19/2016	0-2	--	--	--	--	--	--	--	--	0.072	0.045	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 3.98	--	--	--	--	--	--	--	--
SCS-94-2W-(0'-2')-20160119-01	1/19/2016	0-2	--	--	--	--	--	--	--	--	1.2	0.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 6.18	--	--	--	--	--	--	--	--
SCS-45A-2W-(0'-2')-20160119-01	1/19/2016	0-2	--	--	--	--	--	--	--	--	0.32	0.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 5.72	--	--	--	--	--	--	--	--

"<" Analyte was not detected above laboratory detection limit
bgs below ground surface
ft feet
mg milligram
kg kilogram

Table 6-4
Macon-Bibb County Property - Subsurface Soil Confirmation Results
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter			Benzo(a)anthracene
		Type 1 RRS	5.0
Sample ID	Date	Depth (ft bgs)	mg/kg
SCS-60-9W-(2'-6')-20150918-01	9/18/2015	2-6'	0.0065
SCS-63-9W-(2'-6')-20150918-01	9/18/2015	2-6'	< 0.0019
SCS-64-9W-(2'-6')-20150918-01	9/18/2015	2-6'	< 0.0022
SCS-65-9W-(2'-6')-20150918-01	9/18/2015	2-6'	0.048
SCS-95-9W-(2'-6')-20150918-01	1/19/2016	2-6'	0.75
SCS-80-14W-(6'-10')-20151212-01	12/12/15	6-10	0.0071
SCS-81-14W-(6'-10')-20151212-01	12/12/15	6-10	0.0054
SCS-67-13W-(6'-10')-20150923-01	9/23/2015	6-10'	0.01
SCS-68-13W-(6'-10')-20150923-01	9/23/2015	6-10'	0.012

"<" Gray font - analyte was not detected above laboratory detection limit
0.083 Black font - analyte was detected above laboratory detection limit
ft feet
bgs below ground surface
mg/kg milligrams per kilogram

Table 6-5
AGLC Parcel - Surface Soil Confirmation Results
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Southern Portion of AGLC Parcel

Parameter			Benzo(a)anthracene	Benzo(a)pyrene	Arsenic
		Type 1 RRS	5.0	1.64	20
		Type 2 RRS	12.0	1.64	25
		Type 3 RRS	5.0	1.64	41
		Type 4 RRS	12	7.8	38
Sample ID	**Date**	**Depth (ft bgs)**	**mg/kg**	**mg/kg**	**mg/kg**
South Parcel					
SCS-22-2W-(0'-2')-20150625-01	6/25/2015	0-2	< 0.33	< 0.33	< 4.87
SCS-23-2W-(0'-2')-20150625-01	6/25/2015	0-2	--	--	< 5.05
SCS-23A-2W-(0'-2')-20150724-01	7/24/2015	0-2	< 0.36	< 0.36	--
SCS-24-2W-(0'-2')-20150625-01	6/25/2015	0-2	12	--	< 4.93
SCS-24A-2W-(0'-2')-20150724-01	7/24/2015	0-2		0.66	--
SCS-25-2W-(0'-2')-20150625-01	6/25/2015	0-2	2.5	**2.2**	< 5.2
SCS-26-2W-(0'-2')-20150625-01	6/25/2015	0-2	--	--	7.28
SCS-26A-2W-(0'-2')-20150724-01	7/24/2015	0-2	8.3	--	--
SCS-45A-2W-(0'-2')-20160119-01	1/19/2016	0-2	0.32	0.31	< 5.72
SCS-46-2W-(0'-2')-20150708-01	7/8/2015	0-2	0.3	0.2	< 6.45
SCS-47-2W-(0'-2')-20150708-01	7/8/2015	0-2	8.1	**5.3**	< 5.53
SCS-48-2W-(0'-2')-20150714-01	7/14/2015	0-2	2.3	1.6	< 4.96
SCS-49-2W-(0'-2')-20150714-01	7/14/2015	0-2	9.8	**7.0**	12.2
SCS-50-2W-(0'-2')-20150714-01	7/14/2015	0-2	0.14	0.1	< 5.08
SCS-51-2W-(0'-2')-20150714-01	7/14/2015	0-2	0.18	0.12	< 5.16
SCS-89-2W-(0'-2')-20160119-01	1/19/2016	0-2	0.36	0.29	< 5.2
SCS-90-2W-(0'-2')-20160119-01	1/19/2016	0-2	0.94	0.78	< 4.46

Northern Portion of AGLC Parcel

Parameter			Benzene	Chloromethane
		Type 1 RRS	0.5	0.3
		Type 2 RRS	5.0	0.277
		Type 3 RRS	5.0	0.3
		Type 4 RRS	5.0	7.36
Sample ID	**Date**	**Depth (ft bgs)**	**mg/kg**	**mg/kg**
North Parcel				
SCS-18-7W-(0-2)-20150624-01	6/24/2015	0-2	< 0.0023	< 0.0046
SCS-20-7W-(0-2)-20150624-01	6/24/2015	0-2	< 0.0026	< 0.0051
SCS-21-7W-(0-2)-20150624-01	6/24/2015	0-2	< 0.0027	< 0.0055
SCS-35-7W-(0-2)-20150625-01	6/25/2015	0-2	< 0.0026	< 0.0052
SCS-36-7W-(0-2)-20150625-01	6/25/2015	0-2	< 0.0034	< 0.0068
SCS-37-7W-(0-2)-20150625-01	6/25/2015	0-2	< 0.180	< 0.350
SCS-41-7W-(0-2)-20150625-01	6/25/2015	0-2	< 0.0026	< 0.0052
SCS-42-7W-(0-2)-20150625-01	6/25/2015	0-2	< 0.0064	< 0.013
SCS-43-7W-(0-2)-20150625-01	6/25/2015	0-2	< 0.180	< 0.360
SCS-44-7W-(0-2)-20150630-01	6/30/2015	0-2	< 0.0084	< 0.0042

ft feet
bgs below ground surface
mg/kg milligrams per kilogram

Table 6-6
AGLC Parcel - Subsurface Soil Confirmation Results
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter			Arsenic	Chromium	Benzene	Benzo(a)anthracene
		Type 1 RRS	20	100	0.5	5.0
		Type 2 RRS	61	230	5.0	12.0
		Type 3 RRS	41	230	5.0	5.0
		Type 4 RRS	38	1200	5.0	12
Sample ID	Date	Depth (ft bgs)	mg/kg	mg/kg	mg/kg	mg/kg
SCS-52-9W-(2'-6')-20150729-01	7/29/2015	2-6'	--	--	--	< 0.38
SCS-53-9W-(2'-6')-20150729-01	7/29/2015	2-6'	--	--	--	< 0.40
SCS-54-9W-(2'-6')-20150729-01	7/29/2015	2-6'	--	--	--	0.46
SCS-55-9W-(2'-6')-20150729-01	7/29/2015	2-6'	--	--	--	0.93
SCS-56-9W-(2'-6')-20150729-01	7/29/2015	2-6'	--	--	--	< 0.35
SCS-57-9W-(2'-6')-20150729-01	7/29/2015	2-6'	--	--	--	< 0.34
SCS-60-9W-(2'-6')-20150918-01	9/18/2015	2-6'	--	--	--	0.0065
SCS-61-9W-(2'-6')-20150918-01	9/18/2015	2-6'	--	--	--	0.0023
SCS-62-9W-(2'-6')-20150918-01	9/18/2015	2-6'	--	--	--	< 0.0024
SCS-63-9W-(2'-6')-20150918-01	9/18/2015	2-6'	--	--	--	< 0.0019
SCS-64-9W-(2'-6')-20150918-01	9/18/2015	2-6'	--	--	--	< 0.0022
SCS-65-9W-(2'-6')-20150918-01	9/18/2015	2-6'	--	--	--	0.048
SCS-95-9W-(2'-6')-20150918-01	1/19/2016	2-6'	--	--	--	0.75
SCS-69-10W-(2'-6')-20151123-01	11/23/2015	2'-6'	37.20	6.82	--	--
SCS-70-10W-(2'-6')-20151123-01	11/23/2015	2'-6'	12.20	16.10	--	--
SCS-71-10W-(2'-6')-20151123-01	11/23/2015	2'-6'	15.80	19.20	--	--
SCS-72-10W-(2'-6')-20151123-01	11/23/2015	2'-6'	< 5.74	23.10	--	--
SCS-73-10W-(2'-6')-20151123-01	11/23/2015	2'-6'	8.64	12.30	--	--
SCS-74-10W-(2'-6')-20151123-01	11/23/2015	2'-6'	9.75	20.10	--	--
SCS-75-10W-(2'-6')-20151123-01	11/23/2015	2'-6'	< 5.21	7.87	--	--
SCS-76-10F-(6')-20151123-01	11/23/2015	2'-6'	< 5.66	35.50	--	--
SCS-77-10F-(6')-20151123-01	11/23/2015	2'-6'	< 5.65	2.82	--	--
SCS-78-10F-(6')-20151123-01	11/23/2015	2'-6'	< 5.38	26.10	--	--
SCS-79-10F-(6')-20151123-01	11/23/2015	2'-6'	< 5.49	25.50	--	--
SCS-58-12W-(6-10)-20150805-01	8/5/2015	6-10'	--	--	< 0.0035	--
SCS-59-12W-(6-10)-20150805-01	8/5/2015	6-10'	--	--	< 0.0040	--
SCS-66-12W-(6-10)-20150923-01	9/23/2015	6-10'	--	--	< 0.0032	--
SCS-103-12W-(6-10)-20160129-01	1/29/2016	6-10'	--	--	< 0.0033	--

"<" Gray font - analyte was not detected above laboratory detection limit
0.083 Black font - analyte was detected above laboratory detection limit
ft feet
bgs below ground surface
mg/kg milligrams per kilogram

Table 6-7
Point Of Exposure Evaluation - Ocmulgee River
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Bibb County, Georgia

Mass Balance Equation: **Csw = Cgs[Qgw/(Qgw+Qsw)**

Flow in Ocmulgee River	958 cfs	429950.4 gpm
(>90 year record)		
Width of plume discharge	**500 ft**	Bedrock plume width (conservative)
Groundwater Velocity	**5.00 ft per day**	Bedrock groundwater flow velocity (conservative)
	5.8E-05 ft/sec	
Depth of discharge	**100 ft**	Aquifer Thickness (conservative)
Flow into Ocmulgee River	2.9E+00 cfs	Bedrock groundwater flow into River

USEPA. NPDES Permit Writer's Manual. September 2010
cfs = cubic feet per second
ft = feet

	Surface Water Standard (µg/L)	Maximum Allowable Groundwater Concentration (µg/L)	Maximum Concentration (µg/L)	Well Location
Benzene*	51	16,936	6,200	MW-205D
Toluene*	5980	1,985,867	1,600	MW-305D
Naphthalene**	21	6,974	4,000	MW-205D
Barium**	20	6,642	4,240	MW-205D

* Surface Water Standard is Georgia In-Stream Water Quality Standard (GISWQS)
** Surface Water Standard is Region 4 Screening Level
µg/L = micrograms per liter

APPENDIX A

Correspondence

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 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.

Based on my review of the findings of this report, the Fifth Quarterly Groundwater Monitoring Report, the Soil Remediation Closure Report for OU2 and OU4, and the Sediment Remediation Closure Report with respect to the risk reduction standards of the Rules for Hazardous Site Response, Rule 391-3-19-07, I have determined that the following properties (identified by Bibb County, Georgia, Tax Parcel ID numbers, if applicable, and as outlined in this report) are in compliance with the following respective risk reduction standards for soil and groundwater.

Certifications for Soil

The following properties are in compliance with Type 1 risk reduction standards for soil:

Parcel No. OC-27-1A
Parcel No. OC-28-1C
Parcel No. OC-107-1A

The following properties are in compliance with Type 2 risk reduction standards for soil:

Parcel No. OC-14-1A
Parcel No. OC-14-1AA
Parcel No. OC-26-3A
Parcel No. OC-107-1B
Portions of Railroad Switching Yard and Right-of-Way of CSX Transportation (leased by Georgia Central)

The following properties are in compliance with Type 3 risk reduction standards for soil:

Central City Park

The following properties are in compliance with Type 4 risk reduction standards for soil:

Parcel No. OC-15-5A
Parcel No. OC-26-7A
Parcel No. OC-26-8C
Parcel No. OC-107-2A
Parcel No. OC-107-3A
Sixth Street and Right-of-Ways between Walnut and Mulberry Streets
Seventh Street and Right-of-Ways between Walnut and Mulberry Streets
Mulberry Street and Right-of-Ways between Sixth and Seventh Streets
Walnut Street and Right-of-Ways between Sixth and Seventh Streets

The following properties are in compliance with Type 5 risk reduction standards for soil:

Parcel No. OC-15-1A
Parcel No. OC-15-4A
Parcel No. OC-15-6A

The soil impacts on the following parcels are not associated with the MGP operations (Soil and Groundwater Corrective Action Plan, RETEC, 2001):

Parcel No. OC-6-3A
Parcel No. OC-6-3B

The soil impacts on the following property are not in compliance with any risk reduction standards; however, the impacts are not considered associated with MGP operations:

Portions of Right-of-Way of Central of Georgia/Norfolk Southern Railroad

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 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.

Based on my review of the findings of this report, the Fifth Quarterly Groundwater Monitoring Report, the Soil Remediation Closure Report for OU2 and OU4, and the Sediment Remediation Closure Report with respect to the risk reduction standards of the Rules for Hazardous Site Response, Rule 391-3-19-07, I have determined that the following properties (identified by Bibb County, Georgia, Tax Parcel ID numbers, if applicable, and as outlined in this report) are in compliance with the following respective risk reduction standards for soil and groundwater.

Certifications for Soil

The following properties are in compliance with Type 1 risk reduction standards for soil:

Parcel No. OC-27-1A
Parcel No. OC-27-1C
Parcel No. OC-107-1A

The following properties are in compliance with Type 2 risk reduction standards for soil:

Parcel No. OC-14-1A
Parcel No. OC-14-1AA
Parcel No. OC-26-3A
Parcel No. OC-107-1B
Portions of Railroad Switching Yard and Right-of-Way of CSX Transportation (leased by Georgia Central)

The following properties are in compliance with Type 3 risk reduction standards for soil:

Central City Park

The following properties are in compliance with Type 4 risk reduction standards for soil:

Parcel No. OC-15-5A
Parcel No. OC-26-7A
Parcel No. OC-26-8C
Parcel No. OC-107-2A
Parcel No. OC-107-3A
Sixth Street and Right-of-Ways between Walnut and Mulberry Streets
Seventh Street and Right-of-Ways between Walnut and Mulberry Streets
Mulberry Street and Right-of-Ways between Sixth and Seventh Streets
Walnut Street and Right-of-Ways between Sixth and Seventh Streets

The following properties are in compliance with Type 5 risk reduction standards for soil:

Parcel No. OC-15-1A
Parcel No. OC-15-4A
Parcel No. OC-15-6A

The soil impacts on the following parcels are not associated with the MGP operations (Soil and Groundwater Corrective Action Plan, RETEC, 2001):

Parcel No. OC-6-3A
Parcel No. OC-6-3B

The soil impacts on the following property are not in compliance with any risk reduction standards; however, the impacts are not considered associated with MGP operations:

Portions of Right-of-Way of Central of Georgia/Norfolk Southern Railroad

Certifications for Groundwater

The following properties are in compliance with Type 1 risk reduction standards for groundwater:

Parcel No. OC-6-3A
Parcel No. OC-6-3B
Parcel No. OC-14-1AA
Parcel No. OC-26-7A
Parcel No. OC-26-8C
Parcel No. OC-27-1A
Parcel No. OC-28-1C
Parcel No. OC-107-1B
Parcel No. OC-107-1A
Parcel No. OC-107-2A
Parcel No. OC-107-3A
Central City Park
Right-of-Way of Riverside Drive

The following properties are not in compliance with any type of risk reduction standards for groundwater:

Parcel No. OC-14-1A
Parcel No. OC-15-1A
Parcel No. OC-15-4A
Parcel No. OC-15-5A
Parcel No. OC-15-6A
Parcel No. OC-26-3A
Portions of Right-of-Way of Sixth Street adjacent to MGP Site
Portions of Right-of-Way of Seventh Street adjacent to MGP Site
Portions of Right-of-Way of Mulberry Street adjacent to MGP Site
Portions of Right-of-Way of Walnut Street adjacent to MGP Site
Portions of Right-of-Way of Central of Georgia/Norfolk Southern Railroad near MW-24D
Portions of Railroad Switching Yard and Right-of-Way of CSX Transportation (leased by Georgia Central)

Certifications for River Sediments

The following property is in compliance with sediment removal and clean-up goals in accordance with the standards established per the approved Corrective Action Plan for Sediments in the Ocmulgee River dated January 5, 2001.

Lower Outfall of the Ocmulgee River

The following property is in compliance with sediment removal and clean-up goals in accordance with the standards established per the approved Corrective Action Plan for Sediments in the Ocmulgee River dated January 5, 2001 and is also in compliance with Type 5 risk reduction standards:

Upper Outfall of the Ocmulgee River

Certified by: Date:

Ralph Cleveland, Vice President of Engineering
Atlanta Gas Light Company

Chris Hobson, Vice President of Environmental Affairs
Georgia Power Company

1/16/04

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 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.

Based on my review of the findings of this report, the Fifth Quarterly Groundwater Monitoring Report, the Soil Remediation Closure Report for OU2 and OU4, and the Sediment Remediation Closure Report with respect to the risk reduction standards of the Rules for Hazardous Site Response, Rule 391-3-19-07, I have determined that the following properties (identified by Bibb County, Georgia, Tax Parcel ID numbers, if applicable, and as outlined in this report) are in compliance with the following respective risk reduction standards for soil and groundwater.

Certifications for Soil

The following properties are in compliance with Type 1 risk reduction standards for soil:

Parcel No. OC-27-1A
Parcel No. OC-27-1C
Parcel No. OC-107-1A

The following properties are in compliance with Type 2 risk reduction standards for soil:

Parcel No. OC-14-1A
Parcel No. OC-14-1AA
Parcel No. OC-26-3A
Parcel No. OC-107-1B
Portions of Railroad Switching Yard and Right-of-Way of CSX Transportation (leased by Georgia Central)

The following properties are in compliance with Type 3 risk reduction standards for soil:

Central City Park

The following properties are in compliance with Type 4 risk reduction standards for soil:

Parcel No. OC-15-5A
Parcel No. OC-26-7A
Parcel No. OC-26-8C
Parcel No. OC-107-2A
Parcel No. OC-107-3A
Sixth Street and Right-of-Ways between Walnut and Mulberry Streets
Seventh Street and Right-of-Ways between Walnut and Mulberry Streets
Mulberry Street and Right-of-Ways between Sixth and Seventh Streets
Walnut Street and Right-of-Ways between Sixth and Seventh Streets

The following properties are in compliance with Type 5 risk reduction standards for soil:

Parcel No. OC-15-1A
Parcel No. OC-15-4A
Parcel No. OC-15-6A

The soil impacts on the following parcels are not associated with the MGP operations (Soil and Groundwater Corrective Action Plan, RETEC, 2001):

Parcel No. OC-6-3A
Parcel No. OC-6-3B

The soil impacts on the following property are not in compliance with any risk reduction standards; however, the impacts are not considered associated with MGP operations:

Portions of Right-of-Way of Central of Georgia/Norfolk Southern Railroad

Certifications for Groundwater

The following properties are in compliance with Type 1 risk reduction standards for groundwater:

Parcel No. OC-6-3A
Parcel No. OC-6-3B
Parcel No. OC-14-1AA
Parcel No. OC-26-7A
Parcel No. OC-26-8C
Parcel No. OC-27-1A
Parcel No. OC-28-1C
Parcel No. OC-107-1B
Parcel No. OC-107-1A
Parcel No. OC-107-2A
Parcel No. OC-107-3A
Central City Park
Right-of-Way of Riverside Drive

The following properties are not in compliance with any type of risk reduction standards for groundwater:

Parcel No. OC-14-1A
Parcel No. OC-15-1A
Parcel No. OC-15-4A
Parcel No. OC-15-5A
Parcel No. OC-15-6A
Parcel No. OC-26-3A
Portions of Right-of-Way of Sixth Street adjacent to MGP Site
Portions of Right-of-Way of Seventh Street adjacent to MGP Site
Portions of Right-of-Way of Mulberry Street adjacent to MGP Site
Portions of Right-of-Way of Walnut Street adjacent to MGP Site
Portions of Right-of-Way of Central of Georgia/Norfolk Southern Railroad near MW-24D
Portions of Railroad Switching Yard and Right-of-Way of CSX Transportation (leased by Georgia Central)

Certifications for River Sediments

The following property is in compliance with sediment removal and clean-up goals in accordance with the standards established per the approved Corrective Action Plan for Sediments in the Ocmulgee River dated January 5, 2001.

Lower Outfall of the Ocmulgee River

The following property is in compliance with sediment removal and clean-up goals in accordance with the standards established per the approved Corrective Action Plan for Sediments in the Ocmulgee River dated January 5, 2001 and is also in compliance with Type 5 risk reduction standards:

Upper Outfall of the Ocmulgee River

Certified by:

Ralph Cleveland, Vice President of Engineering
Atlanta Gas Light Company

Date: 1-16-04

Chris Hobson, Vice President of Environmental Affairs
Georgia Power Company

Date:

Georgia Department of Natural Resource
205 Butler Street, S.E., Suite 1462, Atlanta, Georgia 303
Lonice C. Barrett, Commissio
Environmental Protection Divisi
Harold F. Reheis, Direc
Hazardous Waste Management Bran
404/657-86

January 6, 2000

File - Macon
Central City Park CAP
EPD Approval

Received 1-10-00
ECB

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. N. Darahyl Dennis
Georgia Power Company
Bin 10221
333 Piedmont Avenue, NE
Atlanta, Georgia 30308-3374

Mr. Larry Bradbury
Atlanta Gas Light Company
P.O. Box 4569
Atlanta, Georgia 30302-4569

Subject: Corrective Action Plan – Central City Park
Macon Former Manufactured Gas Plant Site, HSI # 10511

Dear Sirs:

The Georgia Environmental Protection Division (EPD) has completed its review of the Corrective Action Plan (CAP) received on November 28, 1999 for the soils in the Central City Park, which is part of the Macon Former Manufactured Gas Plant Site, submitted by the Atlanta Gas Light Company and Georgia Power Company. The plan is hereby approved, with the following stipulations:

1. As described in your December 30, 1999 letter, received January 4, 2000, the remediation goal will be the Type 3 risk reduction criteria defined in Section 391-3-19-.07(8)(d) of the Rules for Hazardous Site Response, which are more stringent then the Type 4 risk reduction criteria proposed in the CAP.

2. As noted in the CAP, the proposed work only addresses the soil contamination in Central City Park. The rest of the site, including the groundwater and the potential impacts to surface water, will be addressed under separate plans to be submitted at a later date.

Enclosed is the public notice that will run in the *Atlanta Journal Constitution* and *Macon Telegraph* indicating EPD's approval of the CAP. If you have any questions please contact Sarah Divakarla at (404) 657-8600.

Sincerely,

Jane Hendricks

Jane Hendricks
Unit Coordinator
Hazardous Sites Response Program

RJH:spd
File: HSI 10511

S:\RDRIVES\SARAH\HSRM\MACON\MGP\CSR RVW\CENTRAL CITY PARK - CAP APPROVAL.DOC

PUBLIC NOTICE OF EPD'S CONCURRENCE WITH CORRECTIVE ACTION PLAN FOR SITE LISTED ON HAZARDOUS SITE INVENTORY

This public notice is to inform all interested parties that the Environmental Protection Division, Department of Natural Resources, State of Georgia (EPD) has completed its review of the corrective action plan submitted on November 28, 1999, by the Atlanta Gas Light Company and Georgia Power Company for the Central City Park portion of the Macon Manufactured Gas Plant Site. The Macon Manufactured Gas Plant Site is listed as No. 10511 on the Hazardous Sites Inventory. During this phase of the remediation project, the soils identified in the Central City Park that exceed the appropriate risk reduction standards will be removed and disposed of off site.

EPD concurs with the corrective action plan that addresses the first phase of an overall remedial strategy to clean-up the Macon Manufactured Gas Plant Site. A determination has not been made on the type of corrective action that will be appropriate for the rest of the Site.

Additional information about this site may be obtained by calling Sarah Divakarla of EPD at (404) 657-8600.

Georgia Department of Natural Resources

205 Butler Street, S.E., Suite 1462, Atlanta, Georgia 30334

Lonice C. Barrett, Commissioner
Environmental Protection Division
Harold F. Reheis, Director
404/657-8600

File- Corresp Book- Macon
xc: EPolliteer
C Batterhouse
Fax: J Finn L Ledbetter
C Geiger

COPY

AGLCO 17857005

April 17, 2001

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Ms. Suzanne Sitherwood
Director, Engineering
Atlanta Gas Light Company
Post Office Box 4569
Atlanta, Georgia 30302

re: Corrective Action Plan for Sediments in the Ocmulgee River
Macon MGP Site, HSI # 10511

Dear Ms. Sitherwood:

The Georgia Environmental Protection Division (EPD) sent a conditional approval letter for the Corrective Action Plan for Sediments in the Ocmulgee River (CAP) on January 2, 2001. The conditions of that approval letter (meeting public participation requirements and receiving a 401 Water Certification) have been met. EPD received a revised CAP schedule on April 3, 2001 which was developed by Atlanta Gas Light Company (AGLC) following negotiations with the U.S. Army Corps of Engineers. The CAP and revised schedule, including the use of a temporary cofferdam for the upper outfall, are acceptable to EPD. The revised schedule and CAP are hereby approved and, according with Condition 4 of Consent Order EPD-HSR-227, are incorporated into the Order.

Enclosed is a copy of the public notice that EPD will run in the next publication of the *Atlanta Journal* Constitution and the *Macon Telegraph.* If you have any questions, please contact Sarah Divakarla at (404) 657-8600.

Sincerely,

Jane Hendricks

Jane Hendricks
Unit Coordinator
Hazardous Site Response Program

Enc: Public Notice

C: Tim Goodson, ThermoRetec
File: HSI 10511
S:\RDRIVE\SARAHM\CSR\MACONMGP\cap\Ocmulgee Approval final doc

PUBLIC NOTICE OF EPD'S CONCURRENCE WITH CORRECTIVE ACTION PLAN FOR SITE LISTED ON HAZARDOUS SITE INVENTORY

This public notice is to inform all interested parties that the Environmental Protection Division, Department of Natural Resources, State of Georgia (EPD) has completed its review of the corrective action plan submitted on October 2, 2000 and revised on October 20, 2000, December 4, 2000 and April 3, 2001, by the Atlanta Gas Light Company and Georgia Power Company for the Ocmulgee River portion of the Macon Manufactured Gas Plant Site. The Macon Manufactured Gas Plant Site is listed as No. 10511 on the Hazardous Sites Inventory. During this phase of the remediation project, the contaminated sediments and source material identified in the Ocmulgee River that exceed ecological or human health cleanup levels will be removed and disposed of off-site. EPD concurs with this corrective action plan that addresses the sediment remediation as part of the overall remedial strategy to cleanup the Macon Manufactured Gas Plant Site.

Additional information about this site may be obtained by calling Sarah Divakarla of EPD at (404) 657-8600.

Georgia Department of Natural Resources
205 Butler Street, S.E., Suite 1462, Atlanta, Georgia 30334
Lonice C. Barrett, Commissioner
Environmental Protection Division
Harold F. Reheis, Director
404/657-8600

February 12, 2002

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Ms. Suzanne Sitherwood
Director, Engineering
Atlanta Gas Light Company
Post Office Box 4569
Atlanta, Georgia 30302

re: Approval of CAP Revision and Basis of Design Workplan
Macon MGP Site, HSI # 10511

Dear Ms. Sitherwood:

The Georgia Environmental Protection Division (EPD) has reviewed the revised Basis of Design Workplan (Workplan) submitted on January 6, 2001 as well as the proposed revisions to the Corrective Action Plan for Site Soil and Groundwater at the Macon MGP Site (CAP). The public notice period for the CAP revisions expired on February 11, 2002 and EPD did not receive any comments from the public. The revised Workplan and the proposed CAP changes are acceptable and are hereby approved by EPD.

In accordance with Condition 9 of Consent Order EPD-HSR-227, the revised plans are incorporated into the Order and must be implemented. If you have any questions, please contact Sarah Divakarla at (404) 657-8600.

Sincerely,

Jane Hendricks
Unit Coordinator
Hazardous Site Response Program

C: Tim Goodson, ThermoRetec
File: HSI 10511
S:\RDRIVE\SARAHM\CSR\MACONMGP\cap\CAP_BDW Approval.doc

Georgia Department of Natural Resources

2 Martin Luther King, Jr. Drive SE, Suite 1462 East, Atlanta, Georgia 30334
Lonice C. Barrett, Commissioner
Environmental Protection Division
Carol A. Couch, Ph.D., Director
Hazardous Waste Management Branch
404/657-8600

May 13, 2004

Mr. Ralph Cleveland
Director, Engineering Services
Atlanta Gas Light Company
P.O. Box 4569
Atlanta, Georgia 30302

Re: Sediment Remediation Closure Report
Upper and Lower Outfalls – Ocmulgee River
Macon MGP Site, HSI Site #10511

Dear Mr. Cleveland:

The Georgia Environmental Protection Division (EPD) has reviewed the Sediment Remediation Closure Report dated March 6, 2002 for the Upper and Lower Outfalls in the Ocmulgee River. EPD concurs that the remediation was generally completed in accordance with the approved corrective action plan for the sediment remediation. EPD did not generate a response earlier to this submittal because there were no deficiencies noted and the CAP is still active due to the on-going monitoring requirements. However, with this letter, we are acknowledging the closure report is complete and acceptable to EPD.

If you have any questions regarding this letter, please contact David Brownlee at (404) 657-8600.

Sincerely,

Jane Hendricks
Unit Coordinator
Hazardous Sites Response Program

c: James Oosterhoudt

File: HSI# 10511

S:\RDRIVE\DAVIDB\CSR\Macon MGP\Sediment Closure Report Approval Letter.doc

Georgia Department of Natural Resources
2 Martin Luther King, Jr. Drive, Suite 1462 East, Atlanta, Georgia 30334-9000
Noel Holcomb, Commissioner
Environmental Protection Division
Carol A. Couch, Ph.D., Director
404/657-8600

December 7, 2004

COPY

Mr. Ralph Cleveland
Vice President, Engineering
Atlanta Gas Light Company
Post Office Box 4569
Atlanta, Georgia 30302

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Re: Harnco Parcel
Macon MGP Site, HSI # 10511

Dear Mr. Cleveland:

The Georgia Environmental Protection Division (EPD) has reviewed the November 26, 2004 correspondence regarding the Harnco parcel and the current status of its certification with regard to the risk reduction standards found in Section 391-3-19-.07 of the Rules for Hazardous Site Response (RRS). EPD concurs that the Harnco parcel, listed as Parcel No. OC-26-3A, meets the Type 2 RRS for soil. Currently, the parcel does not meet any RRS for groundwater. Investigation and remediation of the groundwater at the parcel will continue as part of AGLC's approved corrective action plan in accordance with Consent Order EPD-HSR-227.

If you have any questions, please contact David Brownlee at (404) 657-8600.

Sincerely,

Tim Cash
Program Manager
Hazardous Site Response Program

TC:db

C: Tim Goodson, AGLC
Brett Mitchell, Georgia Power
Jim Oosterhoudt, Retec

File: HSI 10511

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Georgia Department of Natural Resources
2 Martin Luther King, Jr. Drive SE, Suite 1462 East, Atlanta, Georgia 30334
Lonice C. Barrett, Commissioner
Environmental Protection Division
Carol A. Couch, Ph.D., Director
Hazardous Waste Management Branch
404/657-8600

July 22, 2004

COPY

RECEIVED
JUL 2 9 2004
BY:

Mr. Ralph Cleveland
Director, Engineering Services
Atlanta Gas Light Company
P.O. Box 4569
Atlanta, Georgia 30302

Re: Scour Protection Placement Completion Report
Upper and Lower Outfalls – Ocmulgee River
Macon MGP Site, HSI Site #10511

Dear Mr. Cleveland:

The Georgia Environmental Protection Division (EPD) has reviewed the Scour Protection Placement Completion Report dated July 9, 2004 for the Upper and Lower Outfalls in the Ocmulgee River. EPD concurs that the "armoring" of the river sediments was generally completed in accordance with the approved corrective action plan for the sediments. The new "As Built" baseline elevations contained in Figure 3 of the report will constitute the new baseline for further annual surveys and will be used to determine if additional corrective action is ever required.

If you have any questions regarding this letter, please contact David Brownlee at (404) 657-8600.

Sincerely,

Jane Hendricks
Unit Coordinator
Hazardous Sites Response Program

c: James Oosterhoudt

File: HSI# 10511

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APPENDIX B – CD ONLY

Former Macon Iron and Paper Property Soil Boring Logs and Laboratory Analytical Reports

Environmental Resources Management	**SOIL BORING # DDSB-1**
	PROJECT NAME: AGLC
	PROJECT NUMBER: 0176740
	LOCATION: Macon, GA
DATE DRILLED: March 12, 20	**DRILLING COMPANY:** Atlas Geo-Sampling Company
START TIME: 14:10 **STOP TIME:** 14:35	**DRILLERS NAME(S):** Tim & Penny
COMPLETION DEPTH (ft): 20	**DRILL RIG/METHOD:** Geoprobe / Direct Push
GROUNDWATER LEVEL (ft): 13	**SAMPLING METHOD:** Acetate Liners
BORING DIAMETER (inches): 2.625	**FIELD SCREENING EQUIPMENT:** PID
NORTHING: 1031734.20 **EASTING:** 2464192.98	**LOGGED BY:** Vlad Labenski
GROUND SURFACE ELEVATION (ft): 306.56	**Page 1 of 1**

Sample Interval	DEPTH	Recovery (ft)	BLOW COUNTS	PID (ppm)	USCS	Description/Soil Classification
0-2	0 – 2	2	--	3.7	FILL	Black FILL, gravel, bricks, sand, some clay, glass
2-4	2 – 4	2	--	3.0	CH	CLAY: reddish brown, stiff, low plasticity, moist
4-8	4 – 8	4	--	4.3		CLAY: reddish brown - olive gray, mottled, very stiff, low plasticity, moist
8-12	8 – 12	4	--	6.8	CL	SANDY CLAY: reddish brown, medium stiff, low - moderate plasticity, moist
12-16	12 – 16	4	--	8.2	SP	SAND: reddish brown to more yellowish with depth, dense, poorly graded, wet @ 13'
16-20	16 – 20	4	--	--	--	SAPROLITE @ 17'

Sample Names:
DDSB-1-0-2-20130312-01
DDSB-1-12-13-20130312-01

Environmental

Resources Management

SOIL BORING # DDSB-2

PROJECT NAME: AGLC
PROJECT NUMBER: 0176740
LOCATION: Macon, GA
DATE DRILLED: March 12, 20
DRILLING COMPANY: Atlas Geo-Sampling Company
START TIME: 10:40 **STOP TIME:** 11:15
DRILLERS NAME(S): Tim & Penny
COMPLETION DEPTH (ft): 20
DRILL RIG/METHOD: Geoprobe (Powerprobe 9300TR) / Direct Push
GROUNDWATER LEVEL (ft): 11
SAMPLING METHOD: Acetate Liners
BORING DIAMETER (inches): 2.625
FIELD SCREENING EQUIPMENT: PID
NORTHING: 1031844.83 **EASTING:** 2464066.94
LOGGED BY: Vlad Labenski
GROUND SURFACE ELEVATION (ft): 308.94
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Sample Interval	DEPTH	Recovery (ft)	BLOW COUNTS	PID (ppm)	USCS	Description/Soil Classification
0-2	0	2	--	1.0	FILL	Black FILL, gravel, bricks, coal cinders, rootlets, sandy clay
2-7	2 – 4 – 6	5	--	2.3	CH	CLAY: reddish brown and tan, mottled, very stiff, low plasticity, moist
7-12	8 – 10	5	--	6.0	CH	
				6.0	SP	SAND: brownish, medium dense, medium grained, poorly graded, subangular, wet @ 11'
12-17	12 – 14 – 16	5	--	5.2	SW	SAND: medium dense, medium sand grading to coarse sand with depth, well graded, wet, some black striated staining @ 12-13' bgs.
17-20	18	3	--	5.4	--	SAPROLITE @ 18.5'

Sample Names:
DDSB-2-0-2-20130312-01
DDSB-2-9-11-20130312-01

Environmental Resources Management	**SOIL BORING # DDSB-3**
	PROJECT NAME: AGLC
	PROJECT NUMBER: 0176740
	LOCATION: Macon, GA
DATE DRILLED: March 13, 2013	**DRILLING COMPANY:** Atlas Geo-Sampling Company
START TIME: 09:20 **STOP TIME:** 10:10	**DRILLERS NAME(S):** Tim & Penny
COMPLETION DEPTH (ft): 16	**DRILL RIG/METHOD:** Geoprobe / Direct Push
GROUNDWATER LEVEL (ft): 12	**SAMPLING METHOD:** Acetate Liners
BORING DIAMETER (inches): 2.625	**FIELD SCREENING EQUIPMENT:** PID
NORTHING: 1031773.42 **EASTING:** 2464012.57	**LOGGED BY:** Vlad Labenski
GROUND SURFACE ELEVATION (ft): 309.69	**Page 1 of 1**

Sample Interval	DEPTH	Recovery (ft)	BLOW COUNTS	PID (ppm)	USCS	Description/Soil Classification
0-2	0 – 2	2	--	3.9	FILL	Black FILL, coal cinders, clay, silt, rootlets, grass, leafs, glass, clay content increases with depth
2-4	2 – 4	2	--	2.7	CH	CLAY: reddish brown - olive gray, mottled, medium stiff, low plasticity, moist
4-8	4 – 8	4	--	4.2		
8-12	8 – 12	4	--	2.6		
12-16	12 – 16	4	--	6.8	CH	CLAY: same as above, soft, wet. SAPROLITE @ 15.5'

Sample Names:
DDSB-3-0-2-20130313-01
DDSB-3-12-14-20130313-01

Environmental Resources Management	**SOIL BORING # DDSB-4**
	PROJECT NAME: AGLC
	PROJECT NUMBER: 0176740
	LOCATION: Macon, GA
DATE DRILLED: March 13, 2013	**DRILLING COMPANY:** Atlas Geo-Sampling Company
START TIME: 08:15 **STOP TIME:** 09:05	**DRILLERS NAME(S):** Tim & Penny
COMPLETION DEPTH (ft): 16	**DRILL RIG/METHOD:** Geoprobe / Direct Push
GROUNDWATER LEVEL (ft): 10	**SAMPLING METHOD:** Acetate Liners
BORING DIAMETER (inches): 2.625	**FIELD SCREENING EQUIPMENT:** PID
NORTHING: 1031666.99 **EASTING:** 2463951.58	**LOGGED BY:** Vlad Labenski
GROUND SURFACE ELEVATION (ft): 310.63	**Page 1 of 1**

Sample Interval	DEPTH	Recovery (ft)	BLOW COUNTS	PID (ppm)	USCS	Description/Soil Classification
0-2	0	2	--	0.5	CH	CLAY: reddish brown - olive gray, mottled, stiff, low-moderate plasticity, some rootlets, grass, leafs, and gravel at very top
2-4	2	2	--	2.4		
4-8	4 6	4	--	5.6	CL	SANDY CLAY: light gray and reddish brown, very stiff, low plasticity, sand content increasing with depth
8-12	8 10	4	--	4.1		SANDY CLAY: light gray and light brownish yellow, very stiff grading down to medium stiff, low plasticity, sand content increasing with depth, wet @ 10'
12-16	12 14	4	--	3.9		SANDY CLAY: light gray and reddish brown, mottled, very stiff, low plasticity
	16					SAPROLITE @ 15'

Sample Names:
DDSB-4-0-2-20130313-01
DDSB-4-12-14-20130313-01

Environmental Resources Management	**SOIL BORING # DDSB-5**
	PROJECT NAME: AGLC
	PROJECT NUMBER: 0176740
	LOCATION: Macon, GA
DATE DRILLED: March 13-14, 2013	**DRILLING COMPANY:** Atlas Geo-Sampling Company
START TIME: 10:22 3/13 **STOP TIME:** 08:50 3/14	**DRILLERS NAME(S):** Tim & Penny
COMPLETION DEPTH (ft): 12	**DRILL RIG/METHOD:** Geoprobe / Direct Push
GROUNDWATER LEVEL (ft): 10.2	**SAMPLING METHOD:** Acetate Liners
BORING DIAMETER (inches): 2.625	**FIELD SCREENING EQUIPMENT:** PID
NORTHING: 1031616.34 **EASTING:** 2463922.39	**LOGGED BY:** Vlad Labenski
GROUND SURFACE ELEVATION (ft): 310.61	**Page 1 of 1**

Sample Interval	DEPTH	Recovery (ft)	BLOW COUNTS	PID (ppm)	USCS	Description/Soil Classification
0-2	0 – 2	2	--	0.3	FILL	FILL: Brick, coal cinders, rootlets, gravel, glass, clay, and silt
2-4	2 – 4	2	--	0.5	CH	CLAY: reddish brown - olive gray, mottled, stiff, low-moderate plasticity
4-8	4 – 6 – 8	4	--	0.2		
8-12	8 – 10 – 12	4	--	0.5	CL	SANDY CLAY: light brownish yellow, medium stiff, moderate plasticity, moderate - coarse grained sand, wet @ 10.2' SAPROLITE @ 11.5'

Sample Names:
DDSB-5-0-2-20130312-01
DDSB-5-8-10-20130312-01

Environmental

Resources Management

SOIL BORING # DDSB-6

PROJECT NAME: AGLC
PROJECT NUMBER: 0176740
LOCATION: Macon, GA
DATE DRILLED: March 14, 2013
DRILLING COMPANY: Atlas Geo-Sampling Company
START TIME: 09:00 **STOP TIME:** 10:00
DRILLERS NAME(S): Tim & Penny
COMPLETION DEPTH (ft): 20
DRILL RIG/METHOD: Geoprobe / Direct Push
GROUNDWATER LEVEL (ft):
SAMPLING METHOD: Acetate Liners
BORING DIAMETER (inches): 2.625
FIELD SCREENING EQUIPMENT: PID
NORTHING: 1031536.03 **EASTING:** 2463896.67
LOGGED BY: Vlad Labenski
GROUND SURFACE ELEVATION (ft): 311.55
Page 1 of 1

Sample Interval	DEPTH	Recovery (ft)	BLOW COUNTS	PID (ppm)	USCS	Description/Soil Classification
0-2	0 – 2	2	--	0.2	FILL	FILL, yellowish brown, clay, some sand, silt, and gravel, rootlets, coal cinders, twigs, leafs
2-4	2 – 4	2	--	0.3	CH	CLAY: light brown - gray, mottled, moderate stiff, moderate plasticity, moist
4-8	4 – 6 – 8	4	--	0.4		CLAY: saa, dark reddish brown - gray
8-12	8 – 10 – 12	4	--	0.5		
12-16	12 – 14 – 16	4	--	0.3	CL	SANDY CLAY: very light gray - light brown, mottled, medium stiff - very stiff @ 16', low plasticity
16-20	16 – 18 – 20	4	--	0.8		

Sample Names:
DDSB-6-0-2-20130314-01
DDSB-6-16-20-20130314-01

Environmental Resources Management						**SOIL BORING # DDSB-7**
						PROJECT NAME: AGLC
						PROJECT NUMBER: 0176740
						LOCATION: Macon, GA
DATE DRILLED: March 14, 2013						**DRILLING COMPANY:** Atlas Geo-Sampling Company
START TIME: 10:10		**STOP TIME:** 16:00				**DRILLERS NAME(S):** Tim & Penny
COMPLETION DEPTH (ft): 20						**DRILL RIG/METHOD:** Geoprobe / Direct Push
GROUNDWATER LEVEL (ft): 13						**SAMPLING METHOD:** Acetate Liners
BORING DIAMETER (inches): 2.625						**FIELD SCREENING EQUIPMENT:** PID
NORTHING: 1031536.24		**EASTING:** 2463988.79				**LOGGED BY:** Vlad Labenski
GROUND SURFACE ELEVATION (ft): 310.87						**Page 1 of 1**

Sample Interval	DEPTH	Recovery (ft)	BLOW COUNTS	PID (ppm)	USCS	Description/Soil Classification
0-2	0 – 2	2	--	0.7	FILL	FILL, black, coal cinders, gravel, roots, grass, and leafs
2-4	2 – 4	2	--	0.8		
4-8	4 – 6	4	--	0.6	CH	CLAY: reddish brown - light gray, mottled, soft grading down to very stiff @ 7' with a soft lense 13-15', high plasticity where soft, medium plasticity where very stiff
8-12	8 – 10	4	--	0.7		
12-16	12 – 14	4	--	0.6		
16-20	16 – 18	4	--	0.3		
					--	SAPROLITE @ 19'

Sample Names:
DDSB-7-0-2-20130314-01
DDSB-7-11-13-20130314-01

Environmental Resources Management

SOIL BORING # DDSB-8

PROJECT NAME: AGLC
PROJECT NUMBER: 0176740
LOCATION: Macon, GA
DATE DRILLED: March 14, 2013
DRILLING COMPANY: Atlas Geo-Sampling Company
START TIME: 16:10 **STOP TIME:** 16:55
DRILLERS NAME(S): Tim & Penny
COMPLETION DEPTH (ft): 20
DRILL RIG/METHOD: Geoprobe / Direct Push
GROUNDWATER LEVEL (ft): 11
SAMPLING METHOD: Acetate Liners
BORING DIAMETER (inches): 2.625
FIELD SCREENING EQUIPMENT: PID
NORTHING: 1031584.02 **EASTING:** 2464028.22
LOGGED BY: Vlad Labenski
GROUND SURFACE ELEVATION (ft): 310.22
Page 1 of 1

Sample Interval	DEPTH	Recovery (ft)	BLOW COUNTS	PID (ppm)	USCS	Description/Soil Classification
0-2	0 – 2	2	--	1.1	FILL	FILL, black, mostly coal cinders with some sand, gravel, and silt
2-6	2 – 6	4	--	1.0	CH	CLAY: reddish brown - light gray, mottled, stiff, low plasticity
6-10	6 – 10	4	--	1.3	CH	
10-14	10 – 14	4	--	1.4	CL	SANDY CLAY: reddish brown, medium stiff grading downward to soft @ 10', moderate plasticity, moist - wet @ 11'
14-18	14 – 18	4	--	1.2	SC	CLAYEY SAND: reddish brown, medium dense, medium sand - fine gravel, well graded, wet
18-20	18 – 20	2	--	--	--	SAPROLITE @ 18'

Sample Names:
DDSB-8-0-2-20130314-01
DDSB-8-10-12-20130314-01

Environmental Resources Management

SOIL BORING # DDSB-9

PROJECT NAME: AGLC
PROJECT NUMBER: 0176740
LOCATION: Macon, GA
DATE DRILLED: March 14, 2013
DRILLING COMPANY: Atlas Geo-Sampling Company
START TIME: 17:05 **STOP TIME:** 17:50
DRILLERS NAME(S): Tim & Penny
COMPLETION DEPTH (ft): 16
DRILL RIG/METHOD: Geoprobe / Direct Push
GROUNDWATER LEVEL (ft): 12.5
SAMPLING METHOD: Acetate Liners
BORING DIAMETER (inches): 2.625
FIELD SCREENING EQUIPMENT: PID
NORTHING: 1031636.82 **EASTING:** 2464046.06
LOGGED BY: Vlad Labenski
GROUND SURFACE ELEVATION (ft): 309.93
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Sample Interval	DEPTH	Recovery (ft)	BLOW COUNTS	PID (ppm)	USCS	Description/Soil Classification
0-2	0 – 2	2	--	0.9	FILL	FILL, black, coal cinders, clay, silt, rootlets, grass, and broken glass
2-4	2 – 4	2	--	0.5	CH	CLAY: reddish brown - orangish brown, mottled, soft, high plasticity
4-8	4 – 6 – 8	4	--	0.4		CLAY: reddish brown - light gray, mottled, very stiff, low plasticity,
8-12	8 – 10 – 12	4	--	0.5		
12-16	12 – 14 – 16	4	--	1.2	SC	CLAYEY SAND: brown, medium dense, medium - course grained, well graded, subangular - subrounded, wet @ 12.5' SAPROLITE @ 16'

Sample Names:
DDSB-9-0-2-20130314-01
DDSB-9-10-12-20130314-01

Environmental Resources Management

SOIL BORING # DDSB-10

PROJECT NAME: AGLC
PROJECT NUMBER: 0176740
LOCATION: Macon, GA
DRILLING COMPANY: Atlas Geo-Sampling Company
DRILLERS NAME(S): Tim & Penny
DRILL RIG/METHOD: Geoprobe / Direct Push
SAMPLING METHOD: Acetate Liners
FIELD SCREENING EQUIPMENT: PID
LOGGED BY: Vlad Labenski
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DATE DRILLED: March 12, 2013
START TIME: 16:10 **STOP TIME:** 17:00
COMPLETION DEPTH (ft): 24
GROUNDWATER LEVEL (ft): 14.5
BORING DIAMETER (inches): 2.625
NORTHING: 1031668.94 **EASTING:** 2464074.22
GROUND SURFACE ELEVATION (ft): 309.88

Sample Interval	DEPTH	Recovery (ft)	BLOW COUNTS	PID (ppm)	USCS	Description/Soil Classification
0-2	0 – 2	2	--	5.3	FILL	FILL, black, coal cinders, asphalt, gravel, sand, some clay and silt
2-4	2 – 4	2	--	2.2	CH	CLAY: reddish brown - olive gray, mottled, very stiff, low plasticity, moist
4-8	4 – 8	4	--	--		
8-12	8 – 12	4	--	1.9	CL	SANDY CLAY: reddish brown, medium stiff, low plasticity, course sand, moist
12-16	12 – 16	4	--	7.2	SC	CLAYEY SAND: light brown to yellow, loose - medium dense, medium - course grained, poorly graded, subrounded - subangular, wet @ 14.5, clay lense @ 17.1-17.2'
16-20	16 – 20	4	--	6.4		
20-24	20 – 24	4	--	5.8	CH	CLAY: olive gray, very stiff, moderate plasticity
					--	SAPROLITE

Sample Names (QA/QC):
DDSB-10-0-2-20130312-01
DDSB-10-12-14-20130312-01

Environmental Resources Management

SOIL BORING # DDSB-11

PROJECT NAME: AGLC
PROJECT NUMBER: 0176740
LOCATION: Macon, GA
DRILLING COMPANY: Atlas Geo-Sampling Company
DRILLERS NAME(S): Tim & Penny
DRILL RIG/METHOD: Geoprobe / Direct Push
SAMPLING METHOD: Acetate Liners
FIELD SCREENING EQUIPMENT: PID
LOGGED BY: Vlad Labenski
Page 1 of 1

DATE DRILLED: March 12, 2013
START TIME: 14:55 **STOP TIME:** 15:40
COMPLETION DEPTH (ft): 20
GROUNDWATER LEVEL (ft): 14
BORING DIAMETER (inches): 2.625
NORTHING: 1031705.85 **EASTING:** 2464108.59
GROUND SURFACE ELEVATION (ft): 309.39

Sample Interval	DEPTH	Recovery (ft)	BLOW COUNTS	PID (ppm)	USCS	Description/Soil Classification
0-2	0 – 2	2	--	3.3	FILL	FILL, black, coal cinders, asphalt, gravel, sand, some clay and silt, glass, cement, roots, and grass
2-4	2 – 4	2	--	4.2	CH	CLAY: reddish brown, mottled, very stiff, moderate plasticity, moist
4-8	4 – 6 – 8	4	--	7.5	CL	SANDY CLAY: reddish brown + olive yellow, mottled, medium stiff, low plasticity, course sand, sand content increases with depth, moist
8-12	8 – 10 – 12	4	--	9.2		SANDY CLAY: saa, soft, medium plasticity
12-16	12 – 14 – 16	3	--	4.1	SC	CLAYEY SAND: reddish yellow, medium dense, medium grained, poorly graded, subangular, wet @ 14
16-20	16 – 18 – 20	4	--	5.8		SAPROLITE @ 19.7'

Sample Names (QA/QC):
DDSB-11-0-2-20130312-01
DDSB-11-12-14-20130312-01

Environmental Resources Management	**SOIL BORING # DDSB-12**
	PROJECT NAME: AGLC
	PROJECT NUMBER: 0176740
	LOCATION: Macon, GA
DATE DRILLED: March 12, 2013	**DRILLING COMPANY:** Atlas Geo-Sampling Company
START TIME: 13:00 **STOP TIME:** 13:55	**DRILLERS NAME(S):** Tim & Penny
COMPLETION DEPTH (ft): 20	**DRILL RIG/METHOD:** Geoprobe / Direct Push
GROUNDWATER LEVEL (ft): 12	**SAMPLING METHOD:** Acetate Liners
BORING DIAMETER (inches): 2.625	**FIELD SCREENING EQUIPMENT:** PID
NORTHING: 1031778.06 **EASTING:** 2464119.32	**LOGGED BY:** Vlad Labenski
GROUND SURFACE ELEVATION (ft): 309.00	**Page 1 of 1**

Sample Interval	DEPTH	Recovery (ft)	BLOW COUNTS	PID (ppm)	USCS	Description/Soil Classification
0-2	0 – 2	2	--	0.7	FILL	FILL, black, coal cinders, brick, gravel, sand, some clay and silt
2-4	2 – 4	2	--	0.2	CH	CLAY: reddish brown + olive gray, mottled, medium stiff grading - very stiff @ 7', moderate plasticity, moist
4-8	4 – 8	4	--	0.4		
8-12	8 – 12	0	--	--	--	No Recovery
12-16	12 – 16	4	--	12.6	SP	SAND: stained black 12-14', reddish brown 14-16', dense, medium grained, poorly graded, subround, wet
16-20	16 – 20	4	--	8.4	SC	CLAYEY SAND: reddish brown, medium dense, medium - coarse grained, well graded, angular - subrounded
					--	SAPROLITE @ 17'

Sample Names (QA/QC):

DDSB-12-0-2-20130312-01

DDSB-12-12-13-20130312-01

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-88244-1
TestAmerica Sample Delivery Group: AGL88244-1
Client Project/Site: Macon MGP Due Diligence Soil MAR 2013

For:
ERM-Southeast, Inc.
The Towers at Wildwood Plaza
3200 Windy Hill Road
Suite 1500W
Atlanta, Georgia 30339

Attn: Mr. James Morrison

Authorized for release by:
4/2/2013 5:46:38 PM

Lidya Gulizia
Project Manager II
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Table of Contents

Job ID: 680-88244-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: ERM-Southeast, Inc.

Project: Macon MGP Due Diligence Soil MAR 2013

Report Number: 680-88244-1

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

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

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

RECEIPT

The samples were received on 03/12/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.8º C and 4.4º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples DDSB-2-0-2-20130312-01 (680-88244-2) and DDSB-2-9-11-20130312-01 (680-88244-3) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were prepared on 03/14/2013 and analyzed on 03/26/2013.

Sample TRIP BLANK (LOT # 121212) (680-88244-1) was analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 03/15/2013.

A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 4 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS/LCSD associated with batch 270940 each had 3 analytes outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

The following compounds were outside control limits in the continuing calibration verification (CCV) associated with batch 270940: acetone. This compound is not classified as a Calibration Check Compound (CCCs) in the reference method, and the laboratory defaults to in-house and/or project-specific criteria for evaluation. There is insufficient holding time remaining for re-analysis; therefore, the data have been reported. The associated samples contained detections for the following analytes: acetone and 2-butanone.

The method blank for batch 270940 contained 1,2,4-trichlorobenzene above the method detection limit (MDL). This target analyte concentration was less than one-half the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other difficulties were encountered during the volatiles analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples DDSB-2-0-2-20130312-01 (680-88244-2) and DDSB-2-9-11-20130312-01 (680-88244-3) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/14/2013 and analyzed on

Job ID: 680-88244-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

03/22/2013.

A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 4 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 179951 had 3 analytes {Benzidine at 5%; Benzoic Acid at 0%; and Dinodeb at 39%} outside control limits, but within marginal exceedence; therefore, corrective action was not performed. These results have been reported and qualified. DDSB-2-0-2-20130312-01 (680-88244-2), DDSB-2-9-11-20130312-01 (680-88244-3)

The continuing calibration verification (CCVIS) associated with batch 500-180723/2 recovered above the upper control limit for Di-n-octyl phthalate at 29.2%D. The samples associated with this CCVIS were non-detects for this analyte; therefore, the data have been reported. DDSB-2-0-2-20130312-01 (680-88244-2), DDSB-2-9-11-20130312-01 (680-88244-3)

No other difficulties were encountered during the semivolatiles analyses.

All other quality control parameters were within the acceptance limits.

ORGANOCHLORINE PESTICIDES

Samples DDSB-2-0-2-20130312-01 (680-88244-2) and DDSB-2-9-11-20130312-01 (680-88244-3) were analyzed for organochlorine pesticides in accordance with EPA SW-846 Method 8081A. The samples were prepared on 03/15/2013 and analyzed on 03/26/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

The following sample was diluted due to the abundance of non-target analytes: DDSB-2-0-2-20130312-01 (680-88244-2). Elevated reporting limits (RLs) are provided.

The matrix spike and matrix spike recoveries for batch 179990 exceeded control limits due to sample matrix interferences which required sample dilution. The associated laboratory control sample (LCS) met acceptance criteria.DDSB-2-0-2-20130312-01 (680-88244-2)

TCX surrogate recovery for the following matrix spike duplicate sample was outside control limits: DDSB-2-0-2-20130312-01 (680-88244-2). Evidence of matrix interference is present; therefore, re-extraction and re-analysis was not performed.

The continuing calibration verifications (CCVs) for analytical batch 180839 were low and exceeded control criteria for Chlordane, Toxaphene, and Methoxychlor. This failure most likely occurred due to sample matrix of another sample not associated with this job. The ending CCVs were in control for mentioned analytes and target compounds were not detected in these samples, therefore, sample results were reported.DDSB-2-0-2-20130312-01 (680-88244-2), DDSB-2-9-11-20130312-01 (680-88244-3)

The ending continuing calibration verification (CCV) for Heptachlor associated with batch 180839 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. DDSB-2-0-2-20130312-01 (680-88244-2), DDSB-2-9-11-20130312-01 (680-88244-3)

Sample DDSB-2-0-2-20130312-01 (680-88244-2)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the pesticides analyses.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples DDSB-2-0-2-20130312-01 (680-88244-2) and DDSB-2-9-11-20130312-01 (680-88244-3) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 03/15/2013 and analyzed on 03/20/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

Job ID: 680-88244-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

No difficulties were encountered during the PCBs analyses.

All quality control parameters were within the acceptance limits.

ORGANOPHOSPHORUS PESTICIDES

Samples DDSB-2-0-2-20130312-01 (680-88244-2) and DDSB-2-9-11-20130312-01 (680-88244-3) were analyzed for organophosphorus pesticides in accordance with EPA SW-846 Method 8141A. The samples were prepared on 03/16/2013 and analyzed on 04/01/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

The grand mean exception, as outlined in EPA Method 8000B, was applied to the continuing calibration verification (CCV) standard associated with batch 640-100242 and 640-100288. This rule states that when one or more compounds in the CCV fail to meet acceptance criteria, the initial calibration (ICAL) may be used for quantitation if the average %D (the grand mean) of all the compounds in the CCV is less than or equal to 15 %D.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 640-100242 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. sAMPLE 680-88244-B2 was used for the MS/MSD.

No other difficulties were encountered during the pesticides analyses.

All other quality control parameters were within the acceptance limits.

TOTAL METALS (ICP)

Samples DDSB-2-0-2-20130312-01 (680-88244-2) and DDSB-2-9-11-20130312-01 (680-88244-3) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 03/14/2013 and analyzed on 03/19/2013.

The serial dilution performed for the following sample(s) associated with batch 680-269345 was outside control limits for iron, vanadium, and zinc: (680-88237-1 SD)

Due to the high concentration of alumium, barium, calcium, potassium, magnesium, lead, vanadium, and zinc, the matrix spike / matrix spike duplicate (MS/MSD) for batch 680-269345 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-269345 were outside control limits for chromium, calcium, manganese, and antimony. The associated laboratory control sample (LCS) recovery met acceptance criteria.

The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 680-269345 was outside control limits for barium, calcium, magnesium, antimony, and zinc. Non-homogeneity of the sample matrix is suspected.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples DDSB-2-0-2-20130312-01 (680-88244-2) and DDSB-2-9-11-20130312-01 (680-88244-3) were analyzed for total mercury in accordance with EPA SW-846 Method 7471A. The samples were prepared on 03/13/2013 and analyzed on 03/19/2013.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM

Samples DDSB-2-0-2-20130312-01 (680-88244-2) and DDSB-2-9-11-20130312-01 (680-88244-3) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 3060A/7196A. The samples were prepared on 03/14/2013 and analyzed on

Job ID: 680-88244-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

03/15/2013.

The matrix spike (MS) recovery for batch 269575 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

The following sample(s) was diluted due to the nature of the sample matrix: (680-87989-4 DU), (680-87989-4 PDS), LCBSBDD0001-ISE (680-87989-4). Elevated reporting limits (RLs) are provided.

No other difficulties were encountered during the hexavalent chromium analyses.

All other quality control parameters were within the acceptance limits.

TOTAL CYANIDE

Samples DDSB-2-0-2-20130312-01 (680-88244-2) and DDSB-2-9-11-20130312-01 (680-88244-3) were analyzed for total and amenable cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared and analyzed on 03/13/2013.

No difficulties were encountered during the cyanide analyses.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88244-1
SDG: AGL88244-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88244-1	TRIP BLANK (LOT # 121212)	Water	03/12/13 00:00	03/12/13 13:03
680-88244-2	DDSB-2-0-2-20130312-01	Solid	03/12/13 10:45	03/12/13 13:03
680-88244-3	DDSB-2-9-11-20130312-01	Solid	03/12/13 11:00	03/12/13 13:03

Method Summary

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88244-1
SDG: AGL88244-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8081A	Organochlorine Pesticides (GC)	SW846	TAL CHI
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
8141A	Organophosphorous Pesticides (GC)	SW846	TAL TAL
6010B	Metals (ICP)	SW846	TAL SAV
7471A	Mercury (CVAA)	SW846	TAL SAV
7196A	Chromium, Hexavalent	SW846	TAL SAV
9012A	Cyanide, Total and/or Amenable	SW846	TAL SAV

Protocol References:

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
F	MS or MSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
F	RPD of the MS and MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88244-1
SDG: AGL88244-1

Client Sample ID: TRIP BLANK (LOT # 121212)
Date Collected: 03/12/13 00:00
Date Received: 03/12/13 13:03

Lab Sample ID: 680-88244-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			03/15/13 13:50	1
Benzene	1.0	U	1.0	0.25	ug/L			03/15/13 13:50	1
Bromobenzene	1.0	U	1.0	0.16	ug/L			03/15/13 13:50	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/15/13 13:50	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			03/15/13 13:50	1
Bromoform	1.0	U	1.0	0.50	ug/L			03/15/13 13:50	1
Bromomethane	1.0	U	1.0	0.80	ug/L			03/15/13 13:50	1
2-Butanone	10	U	10	1.0	ug/L			03/15/13 13:50	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			03/15/13 13:50	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			03/15/13 13:50	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			03/15/13 13:50	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			03/15/13 13:50	1
Chloroethane	1.0	U	1.0	1.0	ug/L			03/15/13 13:50	1
Chloroform	1.0	U	1.0	0.14	ug/L			03/15/13 13:50	1
Chloromethane	1.0	U	1.0	0.33	ug/L			03/15/13 13:50	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/L			03/15/13 13:50	1
4-Chlorotoluene	1.0	U	1.0	0.27	ug/L			03/15/13 13:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			03/15/13 13:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			03/15/13 13:50	1
Cyclohexane	1.0	U	1.0	0.25	ug/L			03/15/13 13:50	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			03/15/13 13:50	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			03/15/13 13:50	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			03/15/13 13:50	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			03/15/13 13:50	1
1,3-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			03/15/13 13:50	1
1,4-Dichlorobenzene	1.0	U	1.0	0.28	ug/L			03/15/13 13:50	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			03/15/13 13:50	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			03/15/13 13:50	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			03/15/13 13:50	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			03/15/13 13:50	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			03/15/13 13:50	1
1,3-Dichloropropane	1.0	U	1.0	0.13	ug/L			03/15/13 13:50	1
2,2-Dichloropropane	1.0	U	1.0	0.12	ug/L			03/15/13 13:50	1
1,1-Dichloropropene	1.0	U	1.0	0.25	ug/L			03/15/13 13:50	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/15/13 13:50	1
Hexachlorobutadiene	1.0	U	1.0	0.40	ug/L			03/15/13 13:50	1
2-Hexanone	10	U	10	1.0	ug/L			03/15/13 13:50	1
Isopropylbenzene	1.0	U	1.0	0.10	ug/L			03/15/13 13:50	1
Methyl acetate	1.0	U	1.0	0.19	ug/L			03/15/13 13:50	1
Methylcyclohexane	1.0	U	1.0	0.10	ug/L			03/15/13 13:50	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			03/15/13 13:50	1
4-Methyl-2-pentanone	10	U	10	1.0	ug/L			03/15/13 13:50	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			03/15/13 13:50	1
Naphthalene	5.0	U	5.0	1.0	ug/L			03/15/13 13:50	1
n-Butylbenzene	1.0	U	1.0	0.10	ug/L			03/15/13 13:50	1
N-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/15/13 13:50	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/15/13 13:50	1
sec-Butylbenzene	1.0	U	1.0	0.16	ug/L			03/15/13 13:50	1
Styrene	1.0	U	1.0	0.11	ug/L			03/15/13 13:50	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88244-1
SDG: AGL88244-1

Client Sample ID: TRIP BLANK (LOT # 121212)
Date Collected: 03/12/13 00:00
Date Received: 03/12/13 13:03

Lab Sample ID: 680-88244-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	1.0	0.12	ug/L			03/15/13 13:50	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			03/15/13 13:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			03/15/13 13:50	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/15/13 13:50	1
Toluene	1.0	U	1.0	0.33	ug/L			03/15/13 13:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			03/15/13 13:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			03/15/13 13:50	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			03/15/13 13:50	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.25	ug/L			03/15/13 13:50	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			03/15/13 13:50	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			03/15/13 13:50	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			03/15/13 13:50	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			03/15/13 13:50	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			03/15/13 13:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			03/15/13 13:50	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			03/15/13 13:50	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			03/15/13 13:50	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			03/15/13 13:50	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			03/15/13 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*70 - 130*		*03/15/13 13:50*	*1*
Dibromofluoromethane	*106*		*70 - 130*		*03/15/13 13:50*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*03/15/13 13:50*	*1*

Client Sample ID: DDSB-2-0-2-20130312-01
Date Collected: 03/12/13 10:45
Date Received: 03/12/13 13:03

Lab Sample ID: 680-88244-2
Matrix: Solid
Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.056	*	0.048	0.010	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Benzene	0.0048	U	0.0048	0.00070	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Bromodichloromethane	0.0048	U	0.0048	0.00093	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Bromoform	0.0048	U	0.0048	0.0014	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Bromomethane	0.0048	U	0.0048	0.0014	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
2-Butanone	0.0041	J *	0.024	0.0023	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Carbon disulfide	0.0048	U	0.0048	0.0010	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Carbon tetrachloride	0.0048	U	0.0048	0.00079	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Chlorobenzene	0.0048	U	0.0048	0.00092	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Chloroethane	0.0048	U	0.0048	0.0026	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Chloroform	0.0048	U	0.0048	0.0010	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Chloromethane	0.0048	U	0.0048	0.00095	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
cis-1,2-Dichloroethene	0.0048	U	0.0048	0.0013	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
cis-1,3-Dichloropropene	0.0048	U	0.0048	0.00079	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Cyclohexane	0.0095	U	0.0095	0.0012	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Dibromochloromethane	0.0048	U	0.0048	0.0016	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
1,2-Dibromo-3-Chloropropane	0.0095	U	0.0095	0.0042	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
1,2-Dibromoethane	0.0048	U	0.0048	0.0014	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
1,2-Dichlorobenzene	0.0048	U	0.0048	0.0012	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
1,3-Dichlorobenzene	0.0048	U	0.0048	0.0015	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
1,4-Dichlorobenzene	0.0048	U	0.0048	0.00071	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Dichlorodifluoromethane	0.0048	U	0.0048	0.00090	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
1,1-Dichloroethane	0.0048	U	0.0048	0.0010	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
1,2-Dichloroethane	0.0048	U	0.0048	0.0010	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
1,1-Dichloroethene	0.0048	U	0.0048	0.0014	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
1,2-Dichloropropane	0.0048	U	0.0048	0.00082	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Ethylbenzene	0.0048	U	0.0048	0.0012	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
2-Hexanone	0.024	U *	0.024	0.0031	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Isopropylbenzene	0.0048	U	0.0048	0.0018	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Methyl acetate	0.0095	U	0.0095	0.0048	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Methylcyclohexane	0.0095	U	0.0095	0.00082	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Methylene Chloride	0.0048	U	0.0048	0.00094	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
4-Methyl-2-pentanone	0.024	U	0.024	0.0040	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Methyl tert-butyl ether	0.0095	U	0.0095	0.00095	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Styrene	0.0048	U	0.0048	0.00089	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
1,1,2,2-Tetrachloroethane	0.0048	U	0.0048	0.0015	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Tetrachloroethene	0.0048	U	0.0048	0.0018	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Toluene	0.0048	U	0.0048	0.00080	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
trans-1,2-Dichloroethene	0.0048	U	0.0048	0.00060	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
trans-1,3-Dichloropropene	0.0048	U	0.0048	0.00083	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
1,2,4-Trichlorobenzene	0.0048	U	0.0048	0.00085	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
1,1,1-Trichloroethane	0.0048	U	0.0048	0.00056	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
1,1,2-Trichloroethane	0.0048	U	0.0048	0.0012	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Trichloroethene	0.0048	U	0.0048	0.0012	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Trichlorofluoromethane	0.0048	U	0.0048	0.0011	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0048	U	0.0048	0.0012	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Vinyl chloride	0.0048	U	0.0048	0.0014	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1
Xylenes, Total	0.0095	U	0.0095	0.0010	mg/Kg	☼	03/14/13 16:57	03/26/13 15:14	1

Client Sample ID: DDSB-2-0-2-20130312-01
Date Collected: 03/12/13 10:45
Date Received: 03/12/13 13:03

Lab Sample ID: 680-88244-2
Matrix: Solid
Percent Solids: 86.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		65 - 130	03/14/13 16:57	03/26/13 15:14	1
Dibromofluoromethane	75		65 - 130	03/14/13 16:57	03/26/13 15:14	1
Toluene-d8 (Surr)	88		65 - 130	03/14/13 16:57	03/26/13 15:14	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.037	U	0.037	0.011	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Acenaphthylene	0.037	U	0.037	0.0085	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Acetophenone	**0.10**	**J**	0.37	0.067	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
2-Acetylaminofluorene	0.19	U	0.19	0.034	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
alpha,alpha-Dimethyl phenethylamine	1.5	U	1.5	0.44	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
4-Aminobiphenyl	0.19	U	0.19	0.075	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Aniline	0.74	U	0.74	0.33	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Anthracene	0.037	U	0.037	0.0087	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Aramite	0.19	U	0.19	0.037	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Benzenethiol	0.74	U	0.74	0.37	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Benzidine	0.74	U *	0.74	0.37	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Benzo[a]anthracene	**0.12**		0.037	0.0077	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Benzo[a]pyrene	**0.11**		0.037	0.0067	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Benzo[b]fluoranthene	**0.15**		0.037	0.0072	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Benzo[g,h,i]perylene	**0.10**		0.037	0.012	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Benzoic acid	**0.58**	**J ***	1.9	0.51	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Benzo[k]fluoranthene	**0.068**		0.037	0.0088	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Benzyl alcohol	0.37	U	0.37	0.11	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Bis(2-chloroethoxy)methane	0.19	U	0.19	0.041	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Bis(2-chloroethyl)ether	0.19	U	0.19	0.055	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Bis(2-ethylhexyl) phthalate	0.19	U	0.19	0.049	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
4-Bromophenyl phenyl ether	0.19	U	0.19	0.041	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Butyl benzyl phthalate	0.19	U	0.19	0.046	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Carbofuran	0.37	U	0.37	0.085	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
4-Chloroaniline	0.74	U	0.74	0.11	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
4-Chloro-3-methylphenol	0.37	U	0.37	0.18	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
2-Chloronaphthalene	0.19	U	0.19	0.042	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
2-Chlorophenol	0.19	U	0.19	0.053	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
4-Chlorophenyl phenyl ether	0.19	U	0.19	0.058	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Chrysene	**0.16**		0.037	0.0083	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Diallate	0.19	U	0.19	0.037	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Dibenz(a,h)anthracene	**0.031**	**J**	0.037	0.010	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Dibenz[a,j]acridine	0.19	U	0.19	0.020	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Dibenzofuran	**0.32**		0.19	0.044	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
1,2-Dichlorobenzene	0.19	U	0.19	0.040	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
1,3-Dichlorobenzene	0.19	U	0.19	0.039	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
1,4-Dichlorobenzene	0.19	U	0.19	0.039	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
3,3'-Dichlorobenzidine	0.19	U	0.19	0.031	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
2,4-Dichlorophenol	0.37	U	0.37	0.11	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
2,6-Dichlorophenol	0.19	U	0.19	0.052	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Diethyl phthalate	0.19	U	0.19	0.062	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Diethylstilbestrol	0.74	U	0.74	0.092	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Dimethoate	0.37	U	0.37	0.083	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
7,12-Dimethylbenz(a)anthracene	0.19	U	0.19	0.045	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1

Client Sample ID: DDSB-2-0-2-20130312-01
Date Collected: 03/12/13 10:45
Date Received: 03/12/13 13:03

Lab Sample ID: 680-88244-2
Matrix: Solid
Percent Solids: 86.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dimethylbenzidine	0.74	U	0.74	0.19	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
2,4-Dimethylphenol	0.37	U	0.37	0.12	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Dimethyl phthalate	0.19	U	0.19	0.046	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Di-n-butyl phthalate	0.19	U	0.19	0.047	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
1,4-Dinitrobenzene	0.19	U	0.19	0.029	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
4,6-Dinitro-2-methylphenol	0.37	U	0.37	0.090	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
2,4-Dinitrophenol	0.74	U	0.74	0.19	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
2,4-Dinitrotoluene	0.19	U	0.19	0.057	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
2,6-Dinitrotoluene	0.19	U	0.19	0.044	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Di-n-octyl phthalate	0.19	U	0.19	0.075	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Dinoseb	0.37	U *	0.37	0.095	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
1,4-Dioxane	0.74	U	0.74	0.25	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Diphenylamine	0.19	U	0.19	0.042	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
1,2-Diphenylhydrazine	0.19	U	0.19	0.047	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Disulfoton	0.37	U	0.37	0.056	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Ethyl 4,4'-Dichlorobenzilate	0.19	U	0.19	0.023	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Ethyl methanesulfonate	0.19	U	0.19	0.021	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Ethyl Parathion	0.37	U	0.37	0.10	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Famphur	0.37	U	0.37	0.060	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Fluoranthene	**0.16**		0.037	0.015	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Fluorene	0.037	U	0.037	0.0084	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Hexachlorobenzene	0.074	U	0.074	0.0073	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Hexachlorobutadiene	0.19	U	0.19	0.048	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Hexachlorocyclopentadiene	0.74	U	0.74	0.17	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Hexachloroethane	0.19	U	0.19	0.039	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Hexachlorophene	3.7	U	3.7	1.4	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Hexachloropropene	0.37	U	0.37	0.15	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Indeno[1,2,3-cd]pyrene	**0.072**		0.037	0.012	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Isophorone	0.19	U	0.19	0.041	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Isosafrole	0.19	U	0.19	0.020	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Kepone	0.74	U	0.74	0.37	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Malathion	0.37	U	0.37	0.11	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
m-Dinitrobenzene	0.19	U	0.19	0.035	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Methapyrilene	1.5	U	1.5	0.19	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
3-Methylcholanthrene	0.19	U	0.19	0.016	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Methyl methanesulfonate	0.19	U	0.19	0.030	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
2-Methylnaphthalene	**1.5**		0.19	0.048	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Methyl parathion	0.37	U	0.37	0.10	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
2-Methylphenol	0.19	U	0.19	0.049	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
3 & 4 Methylphenol	0.19	U	0.19	0.070	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Naphthalene	**1.1**		0.037	0.0071	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
1,4-Naphthoquinone	0.74	U	0.74	0.37	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
1-Naphthylamine	0.19	U	0.19	0.028	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
2-Naphthylamine	0.19	U	0.19	0.050	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
2-Nitroaniline	0.19	U	0.19	0.066	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
3-Nitroaniline	0.37	U	0.37	0.071	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
4-Nitroaniline	0.37	U	0.37	0.076	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Nitrobenzene	0.037	U	0.037	0.011	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
5-Nitro-o-toluidine	0.19	U	0.19	0.035	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1

Client Sample ID: DDSB-2-0-2-20130312-01
Date Collected: 03/12/13 10:45
Date Received: 03/12/13 13:03

Lab Sample ID: 680-88244-2
Matrix: Solid
Percent Solids: 86.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	0.37	U	0.37	0.058	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
4-Nitrophenol	0.74	U	0.74	0.20	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
4-Nitroquinoline-1-oxide	0.74	U	0.74	0.35	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
N-Nitrosodiethylamine	0.37	U	0.37	0.11	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
N-Nitrosodimethylamine	0.74	U	0.74	0.40	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
N-Nitrosodi-n-butylamine	0.19	U	0.19	0.066	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
N-Nitrosodi-n-propylamine	0.19	U	0.19	0.047	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
N-Nitrosodiphenylamine	0.19	U	0.19	0.050	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
N-Nitrosomethylethylamine	0.74	U	0.74	0.30	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
N-Nitrosomorpholine	0.19	U	0.19	0.034	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
N-Nitrosopiperidine	0.37	U	0.37	0.034	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
N-Nitrosopyrrolidine	0.19	U	0.19	0.042	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
o,o',o''-Triethylphosphorothioate	0.37	U	0.37	0.057	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
o-Toluidine	0.19	U	0.19	0.036	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
2,2'-oxybis[1-chloropropane]	0.19	U	0.19	0.041	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
p-Dimethylamino azobenzene	0.19	U	0.19	0.020	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Pentachlorobenzene	0.19	U	0.19	0.047	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Pentachloronitrobenzene	0.19	U	0.19	0.026	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Pentachlorophenol	0.74	U	0.74	0.19	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Phenacetin	0.19	U	0.19	0.038	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Phenanthrene	**0.61**		0.037	0.015	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Phenol	0.19	U	0.19	0.058	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Phorate	0.37	U	0.37	0.078	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
2-Picoline	0.37	U	0.37	0.14	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
p-Phenylene diamine	1.5	U	1.5	0.078	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Pronamide	0.19	U	0.19	0.030	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Pyrene	**0.17**		0.037	0.013	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Pyridine	0.74	U	0.74	0.44	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Safrole	0.19	U	0.19	0.018	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Sulfotepp	0.37	U	0.37	0.074	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
sym-Trinitrobenzene	0.74	U	0.74	0.38	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
1,2,4,5-Tetrachlorobenzene	0.19	U	0.19	0.043	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
2,3,4,6-Tetrachlorophenol	0.19	U	0.19	0.050	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
Thionazin	0.37	U	0.37	0.082	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
1,2,4-Trichlorobenzene	0.19	U	0.19	0.042	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
2,4,5-Trichlorophenol	0.37	U	0.37	0.11	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1
2,4,6-Trichlorophenol	0.37	U	0.37	0.046	mg/Kg	☼	03/14/13 17:35	03/22/13 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*45*		*30 - 119*	*03/14/13 17:35*	*03/22/13 22:41*	*1*
2-Fluorophenol	*41*		*30 - 110*	*03/14/13 17:35*	*03/22/13 22:41*	*1*
Nitrobenzene-d5	*41*		*30 - 115*	*03/14/13 17:35*	*03/22/13 22:41*	*1*
Phenol-d5	*46*		*31 - 110*	*03/14/13 17:35*	*03/22/13 22:41*	*1*
Terphenyl-d14	*56*		*36 - 134*	*03/14/13 17:35*	*03/22/13 22:41*	*1*
2,4,6-Tribromophenol	*52*		*35 - 137*	*03/14/13 17:35*	*03/22/13 22:41*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.019	U	0.019	0.0078	mg/Kg	☼	03/15/13 07:24	03/26/13 07:55	10
alpha-BHC	0.019	U	0.019	0.0048	mg/Kg	☼	03/15/13 07:24	03/26/13 07:55	10

Client Sample ID: DDSB-2-0-2-20130312-01
Date Collected: 03/12/13 10:45
Date Received: 03/12/13 13:03

Lab Sample ID: 680-88244-2
Matrix: Solid
Percent Solids: 86.9

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	0.019	U	0.019	0.0058	mg/Kg	☼	03/15/13 07:24	03/26/13 07:55	10
Chlordane (technical)	0.075	U	0.075	0.036	mg/Kg	☼	03/15/13 07:24	03/26/13 07:55	10
4,4'-DDD	0.019	U	0.019	0.0037	mg/Kg	☼	03/15/13 07:24	03/26/13 07:55	10
4,4'-DDE	0.019	U	0.019	0.0031	mg/Kg	☼	03/15/13 07:24	03/26/13 07:55	10
4,4'-DDT	0.019	U	0.019	0.0099	mg/Kg	☼	03/15/13 07:24	03/26/13 07:55	10
delta-BHC	0.019	U	0.019	0.0059	mg/Kg	☼	03/15/13 07:24	03/26/13 07:55	10
Dieldrin	0.019	U	0.019	0.0026	mg/Kg	☼	03/15/13 07:24	03/26/13 07:55	10
Endosulfan I	0.019	U	0.019	0.0082	mg/Kg	☼	03/15/13 07:24	03/26/13 07:55	10
Endosulfan II	0.019	U	0.019	0.0030	mg/Kg	☼	03/15/13 07:24	03/26/13 07:55	10
Endosulfan sulfate	0.019	U	0.019	0.0034	mg/Kg	☼	03/15/13 07:24	03/26/13 07:55	10
Endrin	0.019	U	0.019	0.0026	mg/Kg	☼	03/15/13 07:24	03/26/13 07:55	10
Endrin aldehyde	0.019	U	0.019	0.0031	mg/Kg	☼	03/15/13 07:24	03/26/13 07:55	10
Endrin ketone	0.019	U	0.019	0.0042	mg/Kg	☼	03/15/13 07:24	03/26/13 07:55	10
gamma-BHC (Lindane)	0.019	U	0.019	0.0041	mg/Kg	☼	03/15/13 07:24	03/26/13 07:55	10
Heptachlor	0.019	U	0.019	0.0079	mg/Kg	☼	03/15/13 07:24	03/26/13 07:55	10
Heptachlor epoxide	0.019	U	0.019	0.0067	mg/Kg	☼	03/15/13 07:24	03/26/13 07:55	10
Isodrin	0.019	U	0.019	0.0087	mg/Kg	☼	03/15/13 07:24	03/26/13 07:55	10
Methoxychlor	0.093	U	0.093	0.0036	mg/Kg	☼	03/15/13 07:24	03/26/13 07:55	10
Toxaphene	0.19	U	0.19	0.079	mg/Kg	☼	03/15/13 07:24	03/26/13 07:55	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*64*		*56 - 128*	*03/15/13 07:24*	*03/26/13 07:55*	*10*
Tetrachloro-m-xylene	*52*		*45 - 112*	*03/15/13 07:24*	*03/26/13 07:55*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.019	U	0.019	0.0066	mg/Kg	☼	03/15/13 07:24	03/20/13 08:52	1
PCB-1221	0.019	U	0.019	0.0082	mg/Kg	☼	03/15/13 07:24	03/20/13 08:52	1
PCB-1232	0.019	U	0.019	0.0081	mg/Kg	☼	03/15/13 07:24	03/20/13 08:52	1
PCB-1242	0.019	U	0.019	0.0061	mg/Kg	☼	03/15/13 07:24	03/20/13 08:52	1
PCB-1248	0.019	U	0.019	0.0074	mg/Kg	☼	03/15/13 07:24	03/20/13 08:52	1
PCB-1254	0.019	U	0.019	0.0040	mg/Kg	☼	03/15/13 07:24	03/20/13 08:52	1
PCB-1260	0.019	U	0.019	0.0092	mg/Kg	☼	03/15/13 07:24	03/20/13 08:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*50 - 116*	*03/15/13 07:24*	*03/20/13 08:52*	*1*
DCB Decachlorobiphenyl	*92*		*48 - 142*	*03/15/13 07:24*	*03/20/13 08:52*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.075	U	0.075	0.0033	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Azinphos-methyl	0.075	U	0.075	0.017	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Bolstar	0.037	U	0.037	0.0053	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Carbophenthion	0.075	U	0.075	0.0060	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Chlorpyrifos	0.037	U	0.037	0.0077	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Chlorpyrifos-methyl	0.037	U	0.037	0.014	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Coumaphos	0.37	U	0.37	0.025	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Demeton-O	0.094	U	0.094	0.0029	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Demeton-S	0.094	U	0.094	0.0063	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Demeton, Total	0.094	U	0.094	0.0087	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1

Client Sample ID: DDSB-2-0-2-20130312-01
Date Collected: 03/12/13 10:45
Date Received: 03/12/13 13:03

Lab Sample ID: 680-88244-2
Matrix: Solid
Percent Solids: 86.9

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diazinon	0.037	U	0.037	0.0065	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Dichlofenthion	0.037	U	0.037	0.0048	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Dichlorvos	0.075	U	0.075	0.0072	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Dimethoate	0.075	U	0.075	0.010	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Disulfoton	0.075	U	0.075	0.018	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
EPN	0.037	U	0.037	0.0051	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Ethion	0.019	U	0.019	0.0060	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Ethoprop	0.019	U	0.019	0.0048	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Ethyl Parathion	0.037	U	0.037	0.0062	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Famphur	0.075	U	0.075	0.0094	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Fensulfothion	0.37	U	0.37	0.014	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Fenthion	0.037	U	0.037	0.0053	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Malathion	0.037	U	0.037	0.0093	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Merphos	0.037	U	0.037	0.012	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Methyl parathion	0.019	U	0.019	0.0061	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Mevinphos	0.075	U	0.075	0.0052	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Monochrotophos	0.37	U	0.37	0.052	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Naled	0.37	U	0.37	0.025	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Phorate	0.037	U	0.037	0.0061	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Ronnel	0.037	U	0.037	0.0048	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Simazine	0.075	U	0.075	0.0036	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Stirophos	0.037	U	0.037	0.0072	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Sulfotepp	0.019	U	0.019	0.0097	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Terbufos	0.019	U	0.019	0.018	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Thionazin	0.037	U	0.037	0.011	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Tokuthion	0.037	U	0.037	0.0061	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1
Trichloronate	0.37	U	0.37	0.0086	mg/Kg	☼	03/16/13 09:29	04/01/13 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate (TPP)	*66*		*35 - 134*	*03/16/13 09:29*	*04/01/13 14:31*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4100**		20	10	mg/Kg	☼	03/14/13 10:15	03/19/13 07:40	1
Antimony	2.0	U	2.0	0.53	mg/Kg	☼	03/14/13 10:15	03/19/13 07:40	1
Arsenic	**7.5**		2.0	0.59	mg/Kg	☼	03/14/13 10:15	03/19/13 07:40	1
Barium	**130**		1.0	0.30	mg/Kg	☼	03/14/13 10:15	03/19/13 07:40	1
Beryllium	**0.46**		0.40	0.020	mg/Kg	☼	03/14/13 10:15	03/19/13 07:40	1
Cadmium	**0.31**	**J**	0.50	0.10	mg/Kg	☼	03/14/13 10:15	03/19/13 07:40	1
Calcium	**2400**		50	20	mg/Kg	☼	03/14/13 10:15	03/19/13 07:40	1
Chromium	**6.3**		1.0	0.50	mg/Kg	☼	03/14/13 10:15	03/19/13 07:40	1
Cobalt	**4.0**		1.0	0.12	mg/Kg	☼	03/14/13 10:15	03/19/13 07:40	1
Copper	**23**		2.5	1.1	mg/Kg	☼	03/14/13 10:15	03/19/13 07:40	1
Iron	**6800**		20	7.0	mg/Kg	☼	03/14/13 10:15	03/19/13 07:40	1
Lead	**130**		1.0	0.53	mg/Kg	☼	03/14/13 10:15	03/19/13 07:40	1
Magnesium	**250**		50	2.4	mg/Kg	☼	03/14/13 10:15	03/19/13 07:40	1
Manganese	**510**		1.0	0.30	mg/Kg	☼	03/14/13 10:15	03/19/13 07:40	1
Nickel	**5.5**		4.0	0.31	mg/Kg	☼	03/14/13 10:15	03/19/13 07:40	1
Potassium	**360**		100	8.0	mg/Kg	☼	03/14/13 10:15	03/19/13 07:40	1
Selenium	2.5	U	2.5	1.0	mg/Kg	☼	03/14/13 10:15	03/19/13 07:40	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88244-1
SDG: AGL88244-1

Client Sample ID: DDSB-2-0-2-20130312-01
Date Collected: 03/12/13 10:45
Date Received: 03/12/13 13:03

Lab Sample ID: 680-88244-2
Matrix: Solid
Percent Solids: 86.9

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	1.0	U	1.0	0.096	mg/Kg	☼	03/14/13 10:15	03/19/13 07:40	1
Sodium	200	U	200	82	mg/Kg	☼	03/14/13 10:15	03/19/13 07:40	1
Thallium	**1.4**	**J**	2.5	0.99	mg/Kg	☼	03/14/13 10:15	03/19/13 07:40	1
Vanadium	**12**		1.0	0.24	mg/Kg	☼	03/14/13 10:15	03/19/13 07:40	1
Zinc	**120**		2.0	1.2	mg/Kg	☼	03/14/13 10:15	03/19/13 07:40	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.41**		0.021	0.0087	mg/Kg	☼	03/13/13 10:48	03/19/13 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	1.1	U	1.1	0.34	mg/Kg	☼	03/14/13 11:02	03/15/13 12:51	1
Cyanide, Total	**0.82**		0.55	0.23	mg/Kg	☼	03/13/13 10:00	03/13/13 13:58	1

Client Sample ID: DDSB-2-9-11-20130312-01
Date Collected: 03/12/13 11:00
Date Received: 03/12/13 13:03

Lab Sample ID: 680-88244-3
Matrix: Solid
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.023	J *	0.048	0.011	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Benzene	0.0048	U	0.0048	0.00071	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Bromodichloromethane	0.0048	U	0.0048	0.00094	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Bromoform	0.0048	U	0.0048	0.0015	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Bromomethane	0.0048	U	0.0048	0.0015	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
2-Butanone	0.024	U *	0.024	0.0023	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Carbon disulfide	0.0048	U	0.0048	0.0011	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Carbon tetrachloride	0.0048	U	0.0048	0.00080	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Chlorobenzene	0.0048	U	0.0048	0.00093	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Chloroethane	0.0048	U	0.0048	0.0026	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Chloroform	0.0048	U	0.0048	0.0011	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Chloromethane	0.0048	U	0.0048	0.00097	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
cis-1,2-Dichloroethene	0.0048	U	0.0048	0.0014	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
cis-1,3-Dichloropropene	0.0048	U	0.0048	0.00080	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Cyclohexane	0.0097	U	0.0097	0.0013	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Dibromochloromethane	0.0048	U	0.0048	0.0016	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
1,2-Dibromo-3-Chloropropane	0.0097	U	0.0097	0.0043	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
1,2-Dibromoethane	0.0048	U	0.0048	0.0015	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
1,2-Dichlorobenzene	0.0048	U	0.0048	0.0013	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
1,3-Dichlorobenzene	0.0048	U	0.0048	0.0015	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
1,4-Dichlorobenzene	0.0048	U	0.0048	0.00072	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Dichlorodifluoromethane	0.0048	U	0.0048	0.00091	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
1,1-Dichloroethane	0.0048	U	0.0048	0.0011	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
1,2-Dichloroethane	0.0048	U	0.0048	0.0011	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
1,1-Dichloroethene	0.0048	U	0.0048	0.0015	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
1,2-Dichloropropane	0.0048	U	0.0048	0.00083	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Ethylbenzene	0.0048	U	0.0048	0.0013	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
2-Hexanone	0.024	U *	0.024	0.0032	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Isopropylbenzene	0.0048	U	0.0048	0.0018	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Methyl acetate	0.0097	U	0.0097	0.0048	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Methylcyclohexane	0.0097	U	0.0097	0.00083	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Methylene Chloride	0.0048	U	0.0048	0.00095	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
4-Methyl-2-pentanone	0.024	U	0.024	0.0041	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Methyl tert-butyl ether	0.0097	U	0.0097	0.00097	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Styrene	0.0048	U	0.0048	0.00090	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
1,1,2,2-Tetrachloroethane	0.0048	U	0.0048	0.0015	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Tetrachloroethene	0.0048	U	0.0048	0.0018	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Toluene	0.0048	U	0.0048	0.00081	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
trans-1,2-Dichloroethene	0.0048	U	0.0048	0.00061	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
trans-1,3-Dichloropropene	0.0048	U	0.0048	0.00084	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
1,2,4-Trichlorobenzene	0.0048	U	0.0048	0.00086	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
1,1,1-Trichloroethane	0.0048	U	0.0048	0.00057	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
1,1,2-Trichloroethane	0.0048	U	0.0048	0.0013	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Trichloroethene	0.0048	U	0.0048	0.0013	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Trichlorofluoromethane	0.0048	U	0.0048	0.0012	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0048	U	0.0048	0.0013	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Vinyl chloride	0.0048	U	0.0048	0.0015	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1
Xylenes, Total	0.0097	U	0.0097	0.0011	mg/Kg	☼	03/14/13 16:57	03/26/13 15:36	1

Client Sample ID: DDSB-2-9-11-20130312-01
Date Collected: 03/12/13 11:00
Date Received: 03/12/13 13:03

Lab Sample ID: 680-88244-3
Matrix: Solid
Percent Solids: 80.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	*99*		*65 - 130*	*03/14/13 16:57*	*03/26/13 15:36*	*1*
Dibromofluoromethane	*74*		*65 - 130*	*03/14/13 16:57*	*03/26/13 15:36*	*1*
Toluene-d8 (Surr)	*92*		*65 - 130*	*03/14/13 16:57*	*03/26/13 15:36*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.040	U	0.040	0.012	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Acenaphthylene	0.040	U	0.040	0.0092	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Acetophenone	0.40	U	0.40	0.072	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
2-Acetylaminofluorene	0.20	U	0.20	0.037	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
alpha,alpha-Dimethyl phenethylamine	1.6	U	1.6	0.47	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
4-Aminobiphenyl	0.20	U	0.20	0.081	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Aniline	0.80	U	0.80	0.36	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Anthracene	0.040	U	0.040	0.0094	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Aramite	0.20	U	0.20	0.040	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Benzenethiol	0.80	U	0.80	0.40	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Benzidine	0.80	U *	0.80	0.40	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Benzo[a]anthracene	0.040	U	0.040	0.0084	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Benzo[a]pyrene	0.040	U	0.040	0.0073	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Benzo[b]fluoranthene	0.040	U	0.040	0.0077	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Benzo[g,h,i]perylene	0.040	U	0.040	0.013	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Benzoic acid	2.0	U *	2.0	0.55	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Benzo[k]fluoranthene	0.040	U	0.040	0.0095	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Benzyl alcohol	0.40	U	0.40	0.12	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Bis(2-chloroethoxy)methane	0.20	U	0.20	0.044	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Bis(2-chloroethyl)ether	0.20	U	0.20	0.059	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Bis(2-ethylhexyl) phthalate	0.20	U	0.20	0.053	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
4-Bromophenyl phenyl ether	0.20	U	0.20	0.045	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Butyl benzyl phthalate	0.20	U	0.20	0.050	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Carbofuran	0.40	U	0.40	0.092	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
4-Chloroaniline	0.80	U	0.80	0.12	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
4-Chloro-3-methylphenol	0.40	U	0.40	0.19	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
2-Chloronaphthalene	0.20	U	0.20	0.045	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
2-Chlorophenol	0.20	U	0.20	0.057	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
4-Chlorophenyl phenyl ether	0.20	U	0.20	0.063	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Chrysene	0.040	U	0.040	0.0090	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Diallate	0.20	U	0.20	0.040	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Dibenz(a,h)anthracene	0.040	U	0.040	0.011	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Dibenz[a,j]acridine	0.20	U	0.20	0.022	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Dibenzofuran	0.20	U	0.20	0.048	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
1,2-Dichlorobenzene	0.20	U	0.20	0.044	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
1,3-Dichlorobenzene	0.20	U	0.20	0.042	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
1,4-Dichlorobenzene	0.20	U	0.20	0.042	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
3,3'-Dichlorobenzidine	0.20	U	0.20	0.033	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
2,4-Dichlorophenol	0.40	U	0.40	0.12	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
2,6-Dichlorophenol	0.20	U	0.20	0.057	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Diethyl phthalate	0.20	U	0.20	0.067	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Diethylstilbestrol	0.80	U	0.80	0.099	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Dimethoate	0.40	U	0.40	0.090	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
7,12-Dimethylbenz(a)anthracene	0.20	U	0.20	0.049	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1

Client Sample ID: DDSB-2-9-11-20130312-01
Date Collected: 03/12/13 11:00
Date Received: 03/12/13 13:03

Lab Sample ID: 680-88244-3
Matrix: Solid
Percent Solids: 80.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dimethylbenzidine	0.80	U	0.80	0.21	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
2,4-Dimethylphenol	0.40	U	0.40	0.12	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Dimethyl phthalate	0.20	U	0.20	0.050	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Di-n-butyl phthalate	0.20	U	0.20	0.050	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
1,4-Dinitrobenzene	0.20	U	0.20	0.031	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
4,6-Dinitro-2-methylphenol	0.40	U	0.40	0.097	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
2,4-Dinitrophenol	0.80	U	0.80	0.20	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
2,4-Dinitrotoluene	0.20	U	0.20	0.061	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
2,6-Dinitrotoluene	0.20	U	0.20	0.047	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Di-n-octyl phthalate	0.20	U	0.20	0.081	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Dinoseb	0.40	U *	0.40	0.10	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
1,4-Dioxane	0.80	U	0.80	0.27	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Diphenylamine	0.20	U	0.20	0.046	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
1,2-Diphenylhydrazine	0.20	U	0.20	0.051	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Disulfoton	0.40	U	0.40	0.060	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Ethyl 4,4'-Dichlorobenzilate	0.20	U	0.20	0.025	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Ethyl methanesulfonate	0.20	U	0.20	0.023	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Ethyl Parathion	0.40	U	0.40	0.11	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Famphur	0.40	U	0.40	0.065	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Fluoranthene	0.040	U	0.040	0.016	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Fluorene	0.040	U	0.040	0.0091	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Hexachlorobenzene	0.080	U	0.080	0.0079	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Hexachlorobutadiene	0.20	U	0.20	0.052	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Hexachlorocyclopentadiene	0.80	U	0.80	0.18	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Hexachloroethane	0.20	U	0.20	0.042	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Hexachlorophene	4.0	U	4.0	1.5	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Hexachloropropene	0.40	U	0.40	0.16	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Indeno[1,2,3-cd]pyrene	0.040	U	0.040	0.013	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Isophorone	0.20	U	0.20	0.044	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Isosafrole	0.20	U	0.20	0.021	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Kepone	0.80	U	0.80	0.40	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Malathion	0.40	U	0.40	0.12	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
m-Dinitrobenzene	0.20	U	0.20	0.038	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Methapyrilene	1.6	U	1.6	0.21	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
3-Methylcholanthrene	0.20	U	0.20	0.017	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Methyl methanesulfonate	0.20	U	0.20	0.032	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
2-Methylnaphthalene	0.20	U	0.20	0.052	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Methyl parathion	0.40	U	0.40	0.11	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
2-Methylphenol	0.20	U	0.20	0.053	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
3 & 4 Methylphenol	0.20	U	0.20	0.076	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Naphthalene	0.040	U	0.040	0.0077	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
1,4-Naphthoquinone	0.80	U	0.80	0.40	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
1-Naphthylamine	0.20	U	0.20	0.031	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
2-Naphthylamine	0.20	U	0.20	0.054	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
2-Nitroaniline	0.20	U	0.20	0.072	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
3-Nitroaniline	0.40	U	0.40	0.077	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
4-Nitroaniline	0.40	U	0.40	0.082	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Nitrobenzene	0.040	U	0.040	0.012	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
5-Nitro-o-toluidine	0.20	U	0.20	0.038	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88244-1
SDG: AGL88244-1

Client Sample ID: DDSB-2-9-11-20130312-01
Date Collected: 03/12/13 11:00
Date Received: 03/12/13 13:03

Lab Sample ID: 680-88244-3
Matrix: Solid
Percent Solids: 80.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	0.40	U	0.40	0.063	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
4-Nitrophenol	0.80	U	0.80	0.21	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
4-Nitroquinoline-1-oxide	0.80	U	0.80	0.38	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
N-Nitrosodiethylamine	0.40	U	0.40	0.11	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
N-Nitrosodimethylamine	0.80	U	0.80	0.44	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
N-Nitrosodi-n-butylamine	0.20	U	0.20	0.071	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
N-Nitrosodi-n-propylamine	0.20	U	0.20	0.051	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
N-Nitrosodiphenylamine	0.20	U	0.20	0.054	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
N-Nitrosomethylethylamine	0.80	U	0.80	0.33	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
N-Nitrosomorpholine	0.20	U	0.20	0.037	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
N-Nitrosopiperidine	0.40	U	0.40	0.037	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
N-Nitrosopyrrolidine	0.20	U	0.20	0.046	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
o,o',o''-Triethylphosphorothioate	0.40	U	0.40	0.061	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
o-Toluidine	0.20	U	0.20	0.039	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
2,2'-oxybis[1-chloropropane]	0.20	U	0.20	0.044	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
p-Dimethylamino azobenzene	0.20	U	0.20	0.021	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Pentachlorobenzene	0.20	U	0.20	0.050	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Pentachloronitrobenzene	0.20	U	0.20	0.028	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Pentachlorophenol	0.80	U	0.80	0.20	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Phenacetin	0.20	U	0.20	0.041	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Phenanthrene	0.040	U	0.040	0.017	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Phenol	0.20	U	0.20	0.063	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Phorate	0.40	U	0.40	0.084	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
2-Picoline	0.40	U	0.40	0.15	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
p-Phenylene diamine	1.6	U	1.6	0.084	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Pronamide	0.20	U	0.20	0.032	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Pyrene	0.040	U	0.040	0.014	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Pyridine	0.80	U	0.80	0.47	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Safrole	0.20	U	0.20	0.019	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Sulfotepp	0.40	U	0.40	0.080	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
sym-Trinitrobenzene	0.80	U	0.80	0.41	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
1,2,4,5-Tetrachlorobenzene	0.20	U	0.20	0.047	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
2,3,4,6-Tetrachlorophenol	0.20	U	0.20	0.054	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
Thionazin	0.40	U	0.40	0.089	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
1,2,4-Trichlorobenzene	0.20	U	0.20	0.045	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
2,4,5-Trichlorophenol	0.40	U	0.40	0.11	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1
2,4,6-Trichlorophenol	0.40	U	0.40	0.050	mg/Kg	☼	03/14/13 17:35	03/22/13 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*47*		*30 - 119*	*03/14/13 17:35*	*03/22/13 22:59*	*1*
2-Fluorophenol	*42*		*30 - 110*	*03/14/13 17:35*	*03/22/13 22:59*	*1*
Nitrobenzene-d5	*45*		*30 - 115*	*03/14/13 17:35*	*03/22/13 22:59*	*1*
Phenol-d5	*49*		*31 - 110*	*03/14/13 17:35*	*03/22/13 22:59*	*1*
Terphenyl-d14	*68*		*36 - 134*	*03/14/13 17:35*	*03/22/13 22:59*	*1*
2,4,6-Tribromophenol	*65*		*35 - 137*	*03/14/13 17:35*	*03/22/13 22:59*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0021	U	0.0021	0.00084	mg/Kg	☼	03/15/13 07:24	03/26/13 08:57	1
alpha-BHC	0.0021	U	0.0021	0.00052	mg/Kg	☼	03/15/13 07:24	03/26/13 08:57	1

Client Sample ID: DDSB-2-9-11-20130312-01
Date Collected: 03/12/13 11:00
Date Received: 03/12/13 13:03

Lab Sample ID: 680-88244-3
Matrix: Solid
Percent Solids: 80.9

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	0.0021	U	0.0021	0.00063	mg/Kg	☼	03/15/13 07:24	03/26/13 08:57	1
Chlordane (technical)	0.0082	U	0.0082	0.0040	mg/Kg	☼	03/15/13 07:24	03/26/13 08:57	1
4,4'-DDD	0.0021	U	0.0021	0.00041	mg/Kg	☼	03/15/13 07:24	03/26/13 08:57	1
4,4'-DDE	0.0021	U	0.0021	0.00034	mg/Kg	☼	03/15/13 07:24	03/26/13 08:57	1
4,4'-DDT	0.0021	U	0.0021	0.0011	mg/Kg	☼	03/15/13 07:24	03/26/13 08:57	1
delta-BHC	0.0021	U	0.0021	0.00064	mg/Kg	☼	03/15/13 07:24	03/26/13 08:57	1
Dieldrin	0.0021	U	0.0021	0.00028	mg/Kg	☼	03/15/13 07:24	03/26/13 08:57	1
Endosulfan I	0.0021	U	0.0021	0.00089	mg/Kg	☼	03/15/13 07:24	03/26/13 08:57	1
Endosulfan II	0.0021	U	0.0021	0.00033	mg/Kg	☼	03/15/13 07:24	03/26/13 08:57	1
Endosulfan sulfate	0.0021	U	0.0021	0.00037	mg/Kg	☼	03/15/13 07:24	03/26/13 08:57	1
Endrin	0.0021	U	0.0021	0.00028	mg/Kg	☼	03/15/13 07:24	03/26/13 08:57	1
Endrin aldehyde	0.0021	U	0.0021	0.00034	mg/Kg	☼	03/15/13 07:24	03/26/13 08:57	1
Endrin ketone	0.0021	U	0.0021	0.00046	mg/Kg	☼	03/15/13 07:24	03/26/13 08:57	1
gamma-BHC (Lindane)	0.0021	U	0.0021	0.00044	mg/Kg	☼	03/15/13 07:24	03/26/13 08:57	1
Heptachlor	0.0021	U	0.0021	0.00085	mg/Kg	☼	03/15/13 07:24	03/26/13 08:57	1
Heptachlor epoxide	0.0021	U	0.0021	0.00072	mg/Kg	☼	03/15/13 07:24	03/26/13 08:57	1
Isodrin	0.0021	U	0.0021	0.00095	mg/Kg	☼	03/15/13 07:24	03/26/13 08:57	1
Methoxychlor	0.010	U	0.010	0.00039	mg/Kg	☼	03/15/13 07:24	03/26/13 08:57	1
Toxaphene	0.020	U	0.020	0.0086	mg/Kg	☼	03/15/13 07:24	03/26/13 08:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*82*		*56 - 128*	*03/15/13 07:24*	*03/26/13 08:57*	*1*
Tetrachloro-m-xylene	*50*		*45 - 112*	*03/15/13 07:24*	*03/26/13 08:57*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.020	U	0.020	0.0072	mg/Kg	☼	03/15/13 07:24	03/20/13 09:34	1
PCB-1221	0.020	U	0.020	0.0089	mg/Kg	☼	03/15/13 07:24	03/20/13 09:34	1
PCB-1232	0.020	U	0.020	0.0088	mg/Kg	☼	03/15/13 07:24	03/20/13 09:34	1
PCB-1242	0.020	U	0.020	0.0067	mg/Kg	☼	03/15/13 07:24	03/20/13 09:34	1
PCB-1248	0.020	U	0.020	0.0080	mg/Kg	☼	03/15/13 07:24	03/20/13 09:34	1
PCB-1254	0.020	U	0.020	0.0044	mg/Kg	☼	03/15/13 07:24	03/20/13 09:34	1
PCB-1260	0.020	U	0.020	0.010	mg/Kg	☼	03/15/13 07:24	03/20/13 09:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*50 - 116*	*03/15/13 07:24*	*03/20/13 09:34*	*1*
DCB Decachlorobiphenyl	*101*		*48 - 142*	*03/15/13 07:24*	*03/20/13 09:34*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.079	U	0.079	0.0035	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Azinphos-methyl	0.079	U	0.079	0.018	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Bolstar	0.040	U	0.040	0.0056	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Carbophenthion	0.079	U	0.079	0.0063	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Chlorpyrifos	0.040	U	0.040	0.0081	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Chlorpyrifos-methyl	0.040	U	0.040	0.014	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Coumaphos	0.40	U	0.40	0.026	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Demeton-O	0.099	U	0.099	0.0031	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Demeton-S	0.099	U	0.099	0.0067	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Demeton, Total	0.099	U	0.099	0.0092	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1

Client Sample ID: DDSB-2-9-11-20130312-01
Date Collected: 03/12/13 11:00
Date Received: 03/12/13 13:03

Lab Sample ID: 680-88244-3
Matrix: Solid
Percent Solids: 80.9

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diazinon	0.040	U	0.040	0.0068	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Dichlofenthion	0.040	U	0.040	0.0050	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Dichlorvos	0.079	U	0.079	0.0077	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Dimethoate	0.079	U	0.079	0.011	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Disulfoton	0.079	U	0.079	0.019	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
EPN	0.040	U	0.040	0.0054	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Ethion	0.020	U	0.020	0.0063	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Ethoprop	0.020	U	0.020	0.0050	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Ethyl Parathion	0.040	U	0.040	0.0066	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Famphur	0.079	U	0.079	0.0099	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Fensulfothion	0.40	U	0.40	0.014	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Fenthion	0.040	U	0.040	0.0056	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Malathion	0.040	U	0.040	0.0098	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Merphos	0.040	U	0.040	0.013	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Methyl parathion	0.020	U	0.020	0.0065	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Mevinphos	0.079	U	0.079	0.0055	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Monochrotophos	0.40	U	0.40	0.055	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Naled	0.40	U	0.40	0.026	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Phorate	0.040	U	0.040	0.0065	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Ronnel	0.040	U	0.040	0.0050	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Simazine	0.079	U	0.079	0.0038	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Stirophos	0.040	U	0.040	0.0077	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Sulfotepp	0.020	U	0.020	0.010	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Terbufos	0.020	U	0.020	0.019	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Thionazin	0.040	U	0.040	0.012	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Tokuthion	0.040	U	0.040	0.0065	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1
Trichloronate	0.40	U	0.40	0.0091	mg/Kg	☼	03/16/13 09:29	04/01/13 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate (TPP)	*47*		*35 - 134*	*03/16/13 09:29*	*04/01/13 15:01*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**14000**		21	10	mg/Kg	☼	03/14/13 10:15	03/19/13 07:45	1
Antimony	2.1	U	2.1	0.55	mg/Kg	☼	03/14/13 10:15	03/19/13 07:45	1
Arsenic	**1.0**	**J**	2.1	0.61	mg/Kg	☼	03/14/13 10:15	03/19/13 07:45	1
Barium	**31**		1.0	0.31	mg/Kg	☼	03/14/13 10:15	03/19/13 07:45	1
Beryllium	**0.33**	**J**	0.42	0.021	mg/Kg	☼	03/14/13 10:15	03/19/13 07:45	1
Cadmium	0.52	U	0.52	0.10	mg/Kg	☼	03/14/13 10:15	03/19/13 07:45	1
Calcium	**530**		52	21	mg/Kg	☼	03/14/13 10:15	03/19/13 07:45	1
Chromium	**17**		1.0	0.52	mg/Kg	☼	03/14/13 10:15	03/19/13 07:45	1
Cobalt	**1.6**		1.0	0.12	mg/Kg	☼	03/14/13 10:15	03/19/13 07:45	1
Copper	**11**		2.6	1.1	mg/Kg	☼	03/14/13 10:15	03/19/13 07:45	1
Iron	**15000**		21	7.3	mg/Kg	☼	03/14/13 10:15	03/19/13 07:45	1
Lead	**12**		1.0	0.55	mg/Kg	☼	03/14/13 10:15	03/19/13 07:45	1
Magnesium	**990**		52	2.5	mg/Kg	☼	03/14/13 10:15	03/19/13 07:45	1
Manganese	**74**		1.0	0.31	mg/Kg	☼	03/14/13 10:15	03/19/13 07:45	1
Nickel	**4.1**	**J**	4.2	0.32	mg/Kg	☼	03/14/13 10:15	03/19/13 07:45	1
Potassium	**1100**		100	8.3	mg/Kg	☼	03/14/13 10:15	03/19/13 07:45	1
Selenium	2.6	U	2.6	1.0	mg/Kg	☼	03/14/13 10:15	03/19/13 07:45	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88244-1
SDG: AGL88244-1

Client Sample ID: DDSB-2-9-11-20130312-01
Date Collected: 03/12/13 11:00
Date Received: 03/12/13 13:03

Lab Sample ID: 680-88244-3
Matrix: Solid
Percent Solids: 80.9

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	1.0	U	1.0	0.10	mg/Kg	☼	03/14/13 10:15	03/19/13 07:45	1
Sodium	210	U	210	85	mg/Kg	☼	03/14/13 10:15	03/19/13 07:45	1
Thallium	2.6	U	2.6	1.0	mg/Kg	☼	03/14/13 10:15	03/19/13 07:45	1
Vanadium	**54**		1.0	0.25	mg/Kg	☼	03/14/13 10:15	03/19/13 07:45	1
Zinc	**19**		2.1	1.2	mg/Kg	☼	03/14/13 10:15	03/19/13 07:45	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.043**		0.024	0.0099	mg/Kg	☼	03/13/13 10:48	03/19/13 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	1.2	U	1.2	0.36	mg/Kg	☼	03/14/13 11:02	03/15/13 12:51	1
Cyanide, Total	0.62	U	0.62	0.26	mg/Kg	☼	03/13/13 10:00	03/13/13 14:01	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88244-1
SDG: AGL88244-1

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

Lab Sample ID: MB 680-269520/6
Matrix: Water
Analysis Batch: 269520

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			03/15/13 10:43	1
Benzene	1.0	U	1.0	0.25	ug/L			03/15/13 10:43	1
Bromobenzene	1.0	U	1.0	0.16	ug/L			03/15/13 10:43	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/15/13 10:43	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			03/15/13 10:43	1
Bromoform	1.0	U	1.0	0.50	ug/L			03/15/13 10:43	1
Bromomethane	1.0	U	1.0	0.80	ug/L			03/15/13 10:43	1
2-Butanone	10	U	10	1.0	ug/L			03/15/13 10:43	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			03/15/13 10:43	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			03/15/13 10:43	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			03/15/13 10:43	1
Chloroethane	1.0	U	1.0	1.0	ug/L			03/15/13 10:43	1
Chloroform	1.0	U	1.0	0.14	ug/L			03/15/13 10:43	1
Chloromethane	1.0	U	1.0	0.33	ug/L			03/15/13 10:43	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/L			03/15/13 10:43	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			03/15/13 10:43	1
4-Chlorotoluene	1.0	U	1.0	0.27	ug/L			03/15/13 10:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			03/15/13 10:43	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			03/15/13 10:43	1
Cyclohexane	1.0	U	1.0	0.25	ug/L			03/15/13 10:43	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			03/15/13 10:43	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			03/15/13 10:43	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			03/15/13 10:43	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			03/15/13 10:43	1
1,3-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			03/15/13 10:43	1
1,4-Dichlorobenzene	1.0	U	1.0	0.28	ug/L			03/15/13 10:43	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			03/15/13 10:43	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			03/15/13 10:43	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			03/15/13 10:43	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			03/15/13 10:43	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			03/15/13 10:43	1
1,3-Dichloropropane	1.0	U	1.0	0.13	ug/L			03/15/13 10:43	1
2,2-Dichloropropane	1.0	U	1.0	0.12	ug/L			03/15/13 10:43	1
1,1-Dichloropropene	1.0	U	1.0	0.25	ug/L			03/15/13 10:43	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/15/13 10:43	1
Hexachlorobutadiene	1.0	U	1.0	0.40	ug/L			03/15/13 10:43	1
2-Hexanone	10	U	10	1.0	ug/L			03/15/13 10:43	1
Isopropylbenzene	1.0	U	1.0	0.10	ug/L			03/15/13 10:43	1
Methyl acetate	1.0	U	1.0	0.19	ug/L			03/15/13 10:43	1
Methylcyclohexane	1.0	U	1.0	0.10	ug/L			03/15/13 10:43	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			03/15/13 10:43	1
4-Methyl-2-pentanone	10	U	10	1.0	ug/L			03/15/13 10:43	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			03/15/13 10:43	1
Naphthalene	5.0	U	5.0	1.0	ug/L			03/15/13 10:43	1
n-Butylbenzene	1.0	U	1.0	0.10	ug/L			03/15/13 10:43	1
N-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/15/13 10:43	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/15/13 10:43	1
sec-Butylbenzene	1.0	U	1.0	0.16	ug/L			03/15/13 10:43	1

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

Lab Sample ID: MB 680-269520/6
Matrix: Water
Analysis Batch: 269520

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U	1.0	0.11	ug/L			03/15/13 10:43	1
tert-Butylbenzene	1.0	U	1.0	0.12	ug/L			03/15/13 10:43	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			03/15/13 10:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			03/15/13 10:43	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/15/13 10:43	1
Toluene	1.0	U	1.0	0.33	ug/L			03/15/13 10:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			03/15/13 10:43	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			03/15/13 10:43	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			03/15/13 10:43	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.25	ug/L			03/15/13 10:43	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			03/15/13 10:43	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			03/15/13 10:43	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			03/15/13 10:43	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			03/15/13 10:43	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			03/15/13 10:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			03/15/13 10:43	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			03/15/13 10:43	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			03/15/13 10:43	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			03/15/13 10:43	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			03/15/13 10:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*03/15/13 10:43*	*1*
Dibromofluoromethane	*106*		*70 - 130*		*03/15/13 10:43*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*03/15/13 10:43*	*1*

Lab Sample ID: LCS 680-269520/4
Matrix: Water
Analysis Batch: 269520

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	80.9		ug/L		81	39 - 162
Benzene	50.0	52.5		ug/L		105	74 - 123
Bromobenzene	50.0	49.8		ug/L		100	79 - 125
Bromochloromethane	50.0	48.1		ug/L		96	60 - 136
Bromodichloromethane	50.0	51.8		ug/L		104	72 - 129
Bromoform	50.0	52.2		ug/L		104	60 - 134
Bromomethane	50.0	38.2		ug/L		76	10 - 171
2-Butanone	100	90.6		ug/L		91	55 - 142
Carbon disulfide	50.0	50.5		ug/L		101	63 - 142
Carbon tetrachloride	50.0	52.2		ug/L		104	70 - 131
Chlorobenzene	50.0	50.9		ug/L		102	79 - 120
Chloroethane	50.0	55.8		ug/L		112	47 - 148
Chloroform	50.0	50.1		ug/L		100	76 - 128
Chloromethane	50.0	52.6		ug/L		105	47 - 151
2-Chlorotoluene	50.0	51.7		ug/L		103	78 - 126
Chlorodibromomethane	50.0	50.6		ug/L		101	63 - 134
4-Chlorotoluene	50.0	51.2		ug/L		102	79 - 124

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

Lab Sample ID: LCS 680-269520/4
Matrix: Water
Analysis Batch: 269520

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	50.0	52.0		ug/L		104	78 - 127
cis-1,3-Dichloropropene	50.0	51.6		ug/L		103	73 - 128
Cyclohexane	50.0	55.7		ug/L		111	68 - 137
1,2-Dibromo-3-Chloropropane	50.0	45.5		ug/L		91	57 - 126
1,2-Dibromoethane	50.0	48.4		ug/L		97	75 - 127
Dibromomethane	50.0	47.1		ug/L		94	75 - 122
1,2-Dichlorobenzene	50.0	51.1		ug/L		102	77 - 124
1,3-Dichlorobenzene	50.0	52.0		ug/L		104	79 - 123
1,4-Dichlorobenzene	50.0	49.9		ug/L		100	76 - 124
Dichlorodifluoromethane	50.0	49.6		ug/L		99	41 - 165
1,1-Dichloroethane	50.0	54.6		ug/L		109	69 - 132
1,2-Dichloroethane	50.0	50.2		ug/L		100	75 - 120
1,1-Dichloroethene	50.0	52.8		ug/L		106	73 - 134
1,2-Dichloropropane	50.0	51.1		ug/L		102	71 - 126
1,3-Dichloropropane	50.0	51.2		ug/L		102	73 - 125
2,2-Dichloropropane	50.0	49.2		ug/L		98	72 - 147
1,1-Dichloropropene	50.0	53.5		ug/L		107	74 - 130
Ethylbenzene	50.0	53.3		ug/L		107	78 - 125
Hexachlorobutadiene	50.0	50.2		ug/L		100	62 - 145
2-Hexanone	100	97.8		ug/L		98	52 - 149
Isopropylbenzene	50.0	48.2		ug/L		96	72 - 129
Methyl acetate	50.0	54.4		ug/L		109	26 - 182
Methylcyclohexane	50.0	53.8		ug/L		108	72 - 133
Methylene Chloride	50.0	50.2		ug/L		100	79 - 124
4-Methyl-2-pentanone	100	101		ug/L		101	51 - 143
Methyl tert-butyl ether	100	102		ug/L		102	76 - 126
Naphthalene	50.0	46.2		ug/L		92	56 - 136
n-Butylbenzene	50.0	55.7		ug/L		111	72 - 128
N-Propylbenzene	50.0	53.6		ug/L		107	74 - 130
p-Isopropyltoluene	50.0	53.5		ug/L		107	69 - 129
sec-Butylbenzene	50.0	52.7		ug/L		105	71 - 130
Styrene	50.0	53.0		ug/L		106	75 - 129
tert-Butylbenzene	50.0	53.7		ug/L		107	72 - 130
1,1,1,2-Tetrachloroethane	50.0	51.8		ug/L		104	68 - 132
1,1,2,2-Tetrachloroethane	50.0	50.9		ug/L		102	71 - 127
Tetrachloroethene	50.0	51.8		ug/L		104	77 - 128
Toluene	50.0	51.6		ug/L		103	77 - 125
trans-1,2-Dichloroethene	50.0	53.1		ug/L		106	78 - 130
trans-1,3-Dichloropropene	50.0	51.3		ug/L		103	72 - 127
1,2,3-Trichlorobenzene	50.0	48.0		ug/L		96	63 - 136
1,2,4-Trichlorobenzene	50.0	48.4		ug/L		97	67 - 134
1,1,1-Trichloroethane	50.0	53.6		ug/L		107	76 - 126
1,1,2-Trichloroethane	50.0	45.6		ug/L		91	69 - 127
Trichloroethene	50.0	49.3		ug/L		99	80 - 120
Trichlorofluoromethane	50.0	58.2		ug/L		116	66 - 144
1,2,3-Trichloropropane	50.0	50.3		ug/L		101	74 - 126
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.0		ug/L		110	72 - 139

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

Lab Sample ID: LCS 680-269520/4
Matrix: Water
Analysis Batch: 269520

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	50.0	52.7		ug/L		105	72 - 129
1,3,5-Trimethylbenzene	50.0	53.1		ug/L		106	72 - 130
Vinyl chloride	50.0	57.4		ug/L		115	58 - 141
Xylenes, Total	150	156		ug/L		104	80 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*70 - 130*
Dibromofluoromethane	*100*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 680-269520/5
Matrix: Water
Analysis Batch: 269520

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	83.1		ug/L		83	39 - 162	3	50
Benzene	50.0	53.2		ug/L		106	74 - 123	1	30
Bromobenzene	50.0	50.5		ug/L		101	79 - 125	2	30
Bromochloromethane	50.0	45.6		ug/L		91	60 - 136	5	30
Bromodichloromethane	50.0	52.2		ug/L		104	72 - 129	1	30
Bromoform	50.0	52.0		ug/L		104	60 - 134	0	30
Bromomethane	50.0	35.2		ug/L		70	10 - 171	8	50
2-Butanone	100	85.7		ug/L		86	55 - 142	6	30
Carbon disulfide	50.0	46.1		ug/L		92	63 - 142	9	30
Carbon tetrachloride	50.0	50.8		ug/L		102	70 - 131	3	30
Chlorobenzene	50.0	50.2		ug/L		100	79 - 120	1	30
Chloroethane	50.0	50.9		ug/L		102	47 - 148	9	40
Chloroform	50.0	47.0		ug/L		94	76 - 128	6	30
Chloromethane	50.0	48.4		ug/L		97	47 - 151	8	30
2-Chlorotoluene	50.0	50.9		ug/L		102	78 - 126	2	30
Chlorodibromomethane	50.0	50.8		ug/L		102	63 - 134	0	50
4-Chlorotoluene	50.0	51.5		ug/L		103	79 - 124	1	30
cis-1,2-Dichloroethene	50.0	49.2		ug/L		98	78 - 127	5	30
cis-1,3-Dichloropropene	50.0	53.0		ug/L		106	73 - 128	3	30
Cyclohexane	50.0	53.3		ug/L		107	68 - 137	4	30
1,2-Dibromo-3-Chloropropane	50.0	45.6		ug/L		91	57 - 126	0	50
1,2-Dibromoethane	50.0	50.0		ug/L		100	75 - 127	3	30
Dibromomethane	50.0	50.6		ug/L		101	75 - 122	7	30
1,2-Dichlorobenzene	50.0	51.4		ug/L		103	77 - 124	1	30
1,3-Dichlorobenzene	50.0	51.9		ug/L		104	79 - 123	0	30
1,4-Dichlorobenzene	50.0	49.3		ug/L		99	76 - 124	1	30
Dichlorodifluoromethane	50.0	45.2		ug/L		90	41 - 165	9	50
1,1-Dichloroethane	50.0	50.9		ug/L		102	69 - 132	7	30
1,2-Dichloroethane	50.0	51.7		ug/L		103	75 - 120	3	30
1,1-Dichloroethene	50.0	46.6		ug/L		93	73 - 134	12	30
1,2-Dichloropropane	50.0	50.7		ug/L		101	71 - 126	1	30
1,3-Dichloropropane	50.0	52.9		ug/L		106	73 - 125	3	30
2,2-Dichloropropane	50.0	44.7		ug/L		89	72 - 147	10	30

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

Lab Sample ID: LCSD 680-269520/5
Matrix: Water
Analysis Batch: 269520

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloropropene			50.0	52.9		ug/L		106	74 - 130	1	30
Ethylbenzene			50.0	50.8		ug/L		102	78 - 125	5	30
Hexachlorobutadiene			50.0	47.5		ug/L		95	62 - 145	6	30
2-Hexanone			100	100		ug/L		100	52 - 149	3	30
Isopropylbenzene			50.0	47.0		ug/L		94	72 - 129	2	30
Methyl acetate			50.0	54.0		ug/L		108	26 - 182	1	30
Methylcyclohexane			50.0	52.5		ug/L		105	72 - 133	2	30
Methylene Chloride			50.0	48.1		ug/L		96	79 - 124	4	30
4-Methyl-2-pentanone			100	108		ug/L		108	51 - 143	6	30
Methyl tert-butyl ether			100	99.8		ug/L		100	76 - 126	2	30
Naphthalene			50.0	47.6		ug/L		95	56 - 136	3	30
n-Butylbenzene			50.0	54.3		ug/L		109	72 - 128	2	30
N-Propylbenzene			50.0	52.4		ug/L		105	74 - 130	2	30
p-Isopropyltoluene			50.0	51.8		ug/L		104	69 - 129	3	50
sec-Butylbenzene			50.0	51.6		ug/L		103	71 - 130	2	30
Styrene			50.0	51.6		ug/L		103	75 - 129	3	30
tert-Butylbenzene			50.0	52.0		ug/L		104	72 - 130	3	30
1,1,1,2-Tetrachloroethane			50.0	52.0		ug/L		104	68 - 132	0	30
1,1,2,2-Tetrachloroethane			50.0	51.7		ug/L		103	71 - 127	2	30
Tetrachloroethene			50.0	49.0		ug/L		98	77 - 128	6	30
Toluene			50.0	51.3		ug/L		103	77 - 125	1	30
trans-1,2-Dichloroethene			50.0	49.9		ug/L		100	78 - 130	6	30
trans-1,3-Dichloropropene			50.0	51.3		ug/L		103	72 - 127	0	50
1,2,3-Trichlorobenzene			50.0	48.5		ug/L		97	63 - 136	1	30
1,2,4-Trichlorobenzene			50.0	47.9		ug/L		96	67 - 134	1	30
1,1,1-Trichloroethane			50.0	52.2		ug/L		104	76 - 126	3	30
1,1,2-Trichloroethane			50.0	47.8		ug/L		96	69 - 127	5	30
Trichloroethene			50.0	49.2		ug/L		98	80 - 120	0	30
Trichlorofluoromethane			50.0	53.0		ug/L		106	66 - 144	9	30
1,2,3-Trichloropropane			50.0	52.1		ug/L		104	74 - 126	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	48.5		ug/L		97	72 - 139	12	30
1,2,4-Trimethylbenzene			50.0	51.8		ug/L		104	72 - 129	2	50
1,3,5-Trimethylbenzene			50.0	52.9		ug/L		106	72 - 130	0	50
Vinyl chloride			50.0	51.9		ug/L		104	58 - 141	10	30
Xylenes, Total			150	151		ug/L		100	80 - 124	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*70 - 130*
Dibromofluoromethane	*93*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 680-270940/6
Matrix: Solid
Analysis Batch: 270940

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.050	U	0.050	0.011	mg/Kg			03/26/13 11:24	1

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

Lab Sample ID: MB 680-270940/6
Matrix: Solid
Analysis Batch: 270940

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0050	U	0.0050	0.00073	mg/Kg			03/26/13 11:24	1
Bromodichloromethane	0.0050	U	0.0050	0.00097	mg/Kg			03/26/13 11:24	1
Bromoform	0.0050	U	0.0050	0.0015	mg/Kg			03/26/13 11:24	1
Bromomethane	0.0050	U	0.0050	0.0015	mg/Kg			03/26/13 11:24	1
2-Butanone	0.025	U	0.025	0.0024	mg/Kg			03/26/13 11:24	1
Carbon disulfide	0.0050	U	0.0050	0.0011	mg/Kg			03/26/13 11:24	1
Carbon tetrachloride	0.0050	U	0.0050	0.00083	mg/Kg			03/26/13 11:24	1
Chlorobenzene	0.0050	U	0.0050	0.00096	mg/Kg			03/26/13 11:24	1
Chloroethane	0.0050	U	0.0050	0.0027	mg/Kg			03/26/13 11:24	1
Chloroform	0.0050	U	0.0050	0.0011	mg/Kg			03/26/13 11:24	1
Chloromethane	0.0050	U	0.0050	0.0010	mg/Kg			03/26/13 11:24	1
Dibromochloromethane	0.0050	U	0.0050	0.0017	mg/Kg			03/26/13 11:24	1
cis-1,2-Dichloroethene	0.0050	U	0.0050	0.0014	mg/Kg			03/26/13 11:24	1
cis-1,3-Dichloropropene	0.0050	U	0.0050	0.00083	mg/Kg			03/26/13 11:24	1
Cyclohexane	0.010	U	0.010	0.0013	mg/Kg			03/26/13 11:24	1
1,2-Dibromo-3-Chloropropane	0.010	U	0.010	0.0044	mg/Kg			03/26/13 11:24	1
1,2-Dibromoethane	0.0050	U	0.0050	0.0015	mg/Kg			03/26/13 11:24	1
1,2-Dichlorobenzene	0.0050	U	0.0050	0.0013	mg/Kg			03/26/13 11:24	1
1,3-Dichlorobenzene	0.0050	U	0.0050	0.0016	mg/Kg			03/26/13 11:24	1
1,4-Dichlorobenzene	0.0050	U	0.0050	0.00074	mg/Kg			03/26/13 11:24	1
Dichlorodifluoromethane	0.0050	U	0.0050	0.00094	mg/Kg			03/26/13 11:24	1
1,1-Dichloroethane	0.0050	U	0.0050	0.0011	mg/Kg			03/26/13 11:24	1
1,2-Dichloroethane	0.0050	U	0.0050	0.0011	mg/Kg			03/26/13 11:24	1
1,1-Dichloroethene	0.0050	U	0.0050	0.0015	mg/Kg			03/26/13 11:24	1
1,2-Dichloropropane	0.0050	U	0.0050	0.00086	mg/Kg			03/26/13 11:24	1
Ethylbenzene	0.0050	U	0.0050	0.0013	mg/Kg			03/26/13 11:24	1
2-Hexanone	0.025	U	0.025	0.0033	mg/Kg			03/26/13 11:24	1
Isopropylbenzene	0.0050	U	0.0050	0.0019	mg/Kg			03/26/13 11:24	1
Methyl acetate	0.010	U	0.010	0.0050	mg/Kg			03/26/13 11:24	1
Methylcyclohexane	0.010	U	0.010	0.00086	mg/Kg			03/26/13 11:24	1
Methylene Chloride	0.0050	U	0.0050	0.00098	mg/Kg			03/26/13 11:24	1
4-Methyl-2-pentanone	0.025	U	0.025	0.0042	mg/Kg			03/26/13 11:24	1
Methyl tert-butyl ether	0.010	U	0.010	0.0010	mg/Kg			03/26/13 11:24	1
Styrene	0.0050	U	0.0050	0.00093	mg/Kg			03/26/13 11:24	1
1,1,2,2-Tetrachloroethane	0.0050	U	0.0050	0.0016	mg/Kg			03/26/13 11:24	1
Tetrachloroethene	0.0050	U	0.0050	0.0019	mg/Kg			03/26/13 11:24	1
Toluene	0.0050	U	0.0050	0.00084	mg/Kg			03/26/13 11:24	1
trans-1,2-Dichloroethene	0.0050	U	0.0050	0.00063	mg/Kg			03/26/13 11:24	1
trans-1,3-Dichloropropene	0.0050	U	0.0050	0.00087	mg/Kg			03/26/13 11:24	1
1,2,4-Trichlorobenzene	0.000970	J	0.0050	0.00089	mg/Kg			03/26/13 11:24	1
1,1,1-Trichloroethane	0.0050	U	0.0050	0.00059	mg/Kg			03/26/13 11:24	1
1,1,2-Trichloroethane	0.0050	U	0.0050	0.0013	mg/Kg			03/26/13 11:24	1
Trichloroethene	0.0050	U	0.0050	0.0013	mg/Kg			03/26/13 11:24	1
Trichlorofluoromethane	0.0050	U	0.0050	0.0012	mg/Kg			03/26/13 11:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0050	U	0.0050	0.0013	mg/Kg			03/26/13 11:24	1
Vinyl chloride	0.0050	U	0.0050	0.0015	mg/Kg			03/26/13 11:24	1
Xylenes, Total	0.010	U	0.010	0.0011	mg/Kg			03/26/13 11:24	1

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

Lab Sample ID: MB 680-270940/6
Matrix: Solid
Analysis Batch: 270940

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		65 - 130		03/26/13 11:24	1
Dibromofluoromethane	84		65 - 130		03/26/13 11:24	1
Toluene-d8 (Surr)	91		65 - 130		03/26/13 11:24	1

Lab Sample ID: LCS 680-270940/4
Matrix: Solid
Analysis Batch: 270940

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.100	0.186	*	mg/Kg		186	54 - 139
Benzene	0.0500	0.0470		mg/Kg		94	76 - 120
Bromodichloromethane	0.0500	0.0585		mg/Kg		117	72 - 131
Bromoform	0.0500	0.0477		mg/Kg		95	64 - 150
Bromomethane	0.0500	0.0454		mg/Kg		91	10 - 174
2-Butanone	0.100	0.142	*	mg/Kg		142	66 - 123
Carbon disulfide	0.0500	0.0388		mg/Kg		78	74 - 125
Carbon tetrachloride	0.0500	0.0464		mg/Kg		93	67 - 140
Chlorobenzene	0.0500	0.0438		mg/Kg		88	80 - 120
Chloroethane	0.0500	0.0427		mg/Kg		85	10 - 176
Chloroform	0.0500	0.0425		mg/Kg		85	80 - 121
Chloromethane	0.0500	0.0423		mg/Kg		85	48 - 146
Dibromochloromethane	0.0500	0.0454		mg/Kg		91	77 - 132
cis-1,2-Dichloroethene	0.0500	0.0415		mg/Kg		83	80 - 120
cis-1,3-Dichloropropene	0.0500	0.0587		mg/Kg		117	74 - 125
Cyclohexane	0.0500	0.0433		mg/Kg		87	70 - 130
1,2-Dibromo-3-Chloropropane	0.0500	0.0467		mg/Kg		93	49 - 152
1,2-Dibromoethane	0.0500	0.0497		mg/Kg		99	72 - 129
1,2-Dichlorobenzene	0.0500	0.0484		mg/Kg		97	75 - 128
1,3-Dichlorobenzene	0.0500	0.0508		mg/Kg		102	76 - 128
1,4-Dichlorobenzene	0.0500	0.0512		mg/Kg		102	76 - 128
Dichlorodifluoromethane	0.0500	0.0435		mg/Kg		87	72 - 134
1,1-Dichloroethane	0.0500	0.0419		mg/Kg		84	80 - 120
1,2-Dichloroethane	0.0500	0.0539		mg/Kg		108	61 - 140
1,1-Dichloroethene	0.0500	0.0429		mg/Kg		86	64 - 138
1,2-Dichloropropane	0.0500	0.0579		mg/Kg		116	73 - 121
Ethylbenzene	0.0500	0.0433		mg/Kg		87	78 - 121
2-Hexanone	0.100	0.153	*	mg/Kg		153	60 - 126
Isopropylbenzene	0.0500	0.0455		mg/Kg		91	79 - 124
Methyl acetate	0.0500	0.0395		mg/Kg		79	43 - 135
Methylcyclohexane	0.0500	0.0505		mg/Kg		101	77 - 118
Methylene Chloride	0.0500	0.0405		mg/Kg		81	80 - 120
4-Methyl-2-pentanone	0.100	0.123		mg/Kg		123	59 - 127
Methyl tert-butyl ether	0.100	0.0900		mg/Kg		90	80 - 121
Styrene	0.0500	0.0469		mg/Kg		94	78 - 123
1,1,2,2-Tetrachloroethane	0.0500	0.0509		mg/Kg		102	70 - 123
Tetrachloroethene	0.0500	0.0385		mg/Kg		77	77 - 130
Toluene	0.0500	0.0483		mg/Kg		97	73 - 122
trans-1,2-Dichloroethene	0.0500	0.0399		mg/Kg		80	79 - 120

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

Lab Sample ID: LCS 680-270940/4
Matrix: Solid
Analysis Batch: 270940

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	0.0500	0.0562		mg/Kg		112	69 - 133
1,2,4-Trichlorobenzene	0.0500	0.0526		mg/Kg		105	77 - 142
1,1,1-Trichloroethane	0.0500	0.0460		mg/Kg		92	73 - 132
1,1,2-Trichloroethane	0.0500	0.0530		mg/Kg		106	72 - 124
Trichloroethene	0.0500	0.0459		mg/Kg		92	78 - 125
Trichlorofluoromethane	0.0500	0.0411		mg/Kg		82	60 - 148
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.0419		mg/Kg		84	62 - 141
Vinyl chloride	0.0500	0.0412		mg/Kg		82	65 - 133
Xylenes, Total	0.150	0.133		mg/Kg		89	79 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*65 - 130*
Dibromofluoromethane	*82*		*65 - 130*
Toluene-d8 (Surr)	*98*		*65 - 130*

Lab Sample ID: LCSD 680-270940/5
Matrix: Solid
Analysis Batch: 270940

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.100	0.184	*	mg/Kg		184	54 - 139	1	50
Benzene	0.0500	0.0466		mg/Kg		93	76 - 120	1	50
Bromodichloromethane	0.0500	0.0579		mg/Kg		116	72 - 131	1	50
Bromoform	0.0500	0.0502		mg/Kg		100	64 - 150	5	50
Bromomethane	0.0500	0.0473		mg/Kg		95	10 - 174	4	50
2-Butanone	0.100	0.149	*	mg/Kg		149	66 - 123	5	50
Carbon disulfide	0.0500	0.0409		mg/Kg		82	74 - 125	5	50
Carbon tetrachloride	0.0500	0.0454		mg/Kg		91	67 - 140	2	50
Chlorobenzene	0.0500	0.0460		mg/Kg		92	80 - 120	5	50
Chloroethane	0.0500	0.0438		mg/Kg		88	10 - 176	3	50
Chloroform	0.0500	0.0432		mg/Kg		86	80 - 121	2	50
Chloromethane	0.0500	0.0437		mg/Kg		87	48 - 146	3	50
Dibromochloromethane	0.0500	0.0477		mg/Kg		95	77 - 132	5	50
cis-1,2-Dichloroethene	0.0500	0.0429		mg/Kg		86	80 - 120	3	50
cis-1,3-Dichloropropene	0.0500	0.0583		mg/Kg		117	74 - 125	1	50
Cyclohexane	0.0500	0.0430		mg/Kg		86	70 - 130	1	50
1,2-Dibromo-3-Chloropropane	0.0500	0.0506		mg/Kg		101	49 - 152	8	50
1,2-Dibromoethane	0.0500	0.0516		mg/Kg		103	72 - 129	4	50
1,2-Dichlorobenzene	0.0500	0.0506		mg/Kg		101	75 - 128	4	50
1,3-Dichlorobenzene	0.0500	0.0525		mg/Kg		105	76 - 128	3	50
1,4-Dichlorobenzene	0.0500	0.0531		mg/Kg		106	76 - 128	4	50
Dichlorodifluoromethane	0.0500	0.0438		mg/Kg		88	72 - 134	1	50
1,1-Dichloroethane	0.0500	0.0432		mg/Kg		86	80 - 120	3	50
1,2-Dichloroethane	0.0500	0.0520		mg/Kg		104	61 - 140	4	50
1,1-Dichloroethene	0.0500	0.0427		mg/Kg		85	64 - 138	0	50
1,2-Dichloropropane	0.0500	0.0569		mg/Kg		114	73 - 121	2	50
Ethylbenzene	0.0500	0.0444		mg/Kg		89	78 - 121	2	50

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

Lab Sample ID: LCSD 680-270940/5
Matrix: Solid
Analysis Batch: 270940

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Hexanone	0.100	0.157	*	mg/Kg		157	60 - 126	3	50
Isopropylbenzene	0.0500	0.0473		mg/Kg		95	79 - 124	4	50
Methyl acetate	0.0500	0.0411		mg/Kg		82	43 - 135	4	50
Methylcyclohexane	0.0500	0.0498		mg/Kg		100	77 - 118	1	50
Methylene Chloride	0.0500	0.0429		mg/Kg		86	80 - 120	6	50
4-Methyl-2-pentanone	0.100	0.121		mg/Kg		121	59 - 127	1	50
Methyl tert-butyl ether	0.100	0.0920		mg/Kg		92	80 - 121	2	50
Styrene	0.0500	0.0492		mg/Kg		98	78 - 123	5	50
1,1,2,2-Tetrachloroethane	0.0500	0.0532		mg/Kg		106	70 - 123	4	50
Tetrachloroethene	0.0500	0.0399		mg/Kg		80	77 - 130	4	50
Toluene	0.0500	0.0483		mg/Kg		97	73 - 122	0	50
trans-1,2-Dichloroethene	0.0500	0.0406		mg/Kg		81	79 - 120	2	50
trans-1,3-Dichloropropene	0.0500	0.0560		mg/Kg		112	69 - 133	0	50
1,2,4-Trichlorobenzene	0.0500	0.0537		mg/Kg		107	77 - 142	2	50
1,1,1-Trichloroethane	0.0500	0.0454		mg/Kg		91	73 - 132	1	50
1,1,2-Trichloroethane	0.0500	0.0528		mg/Kg		106	72 - 124	0	50
Trichloroethene	0.0500	0.0467		mg/Kg		93	78 - 125	2	50
Trichlorofluoromethane	0.0500	0.0413		mg/Kg		83	60 - 148	1	50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.0409		mg/Kg		82	62 - 141	2	50
Vinyl chloride	0.0500	0.0422		mg/Kg		84	65 - 133	2	50
Xylenes, Total	0.150	0.139		mg/Kg		93	79 - 121	4	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*65 - 130*
Dibromofluoromethane	*88*		*65 - 130*
Toluene-d8 (Surr)	*98*		*65 - 130*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-179951/1-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 179951

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.033	U	0.033	0.0099	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Acenaphthylene	0.033	U	0.033	0.0076	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Acetophenone	0.33	U	0.33	0.060	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
2-Acetylaminofluorene	0.17	U	0.17	0.031	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
alpha,alpha-Dimethyl phenethylamine	1.3	U	1.3	0.39	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
4-Aminobiphenyl	0.17	U	0.17	0.067	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Aniline	0.67	U	0.67	0.30	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Anthracene	0.033	U	0.033	0.0078	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Aramite	0.17	U	0.17	0.033	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Benzenethiol	0.67	U	0.67	0.33	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Benzidine	0.67	U	0.67	0.33	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Benzo[a]anthracene	0.033	U	0.033	0.0070	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Benzo[a]pyrene	0.033	U	0.033	0.0061	mg/Kg		03/14/13 17:35	03/22/13 21:45	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-179951/1-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 179951

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	0.033	U	0.033	0.0065	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Benzo[g,h,i]perylene	0.033	U	0.033	0.011	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Benzoic acid	1.7	U	1.7	0.46	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Benzo[k]fluoranthene	0.033	U	0.033	0.0079	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Benzyl alcohol	0.33	U	0.33	0.099	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Bis(2-chloroethoxy)methane	0.17	U	0.17	0.037	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Bis(2-chloroethyl)ether	0.17	U	0.17	0.049	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Bis(2-ethylhexyl) phthalate	0.17	U	0.17	0.044	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
4-Bromophenyl phenyl ether	0.17	U	0.17	0.037	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Butyl benzyl phthalate	0.17	U	0.17	0.042	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Carbofuran	0.33	U	0.33	0.077	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
4-Chloroaniline	0.67	U	0.67	0.10	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
4-Chloro-3-methylphenol	0.33	U	0.33	0.16	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
2-Chloronaphthalene	0.17	U	0.17	0.037	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
2-Chlorophenol	0.17	U	0.17	0.048	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
4-Chlorophenyl phenyl ether	0.17	U	0.17	0.052	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Chrysene	0.033	U	0.033	0.0075	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Diallate	0.17	U	0.17	0.033	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Dibenz(a,h)anthracene	0.033	U	0.033	0.0093	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Dibenz[a,j]acridine	0.17	U	0.17	0.018	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Dibenzofuran	0.17	U	0.17	0.040	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
1,2-Dichlorobenzene	0.17	U	0.17	0.036	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
1,3-Dichlorobenzene	0.17	U	0.17	0.035	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
1,4-Dichlorobenzene	0.17	U	0.17	0.035	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
3,3'-Dichlorobenzidine	0.17	U	0.17	0.028	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
2,4-Dichlorophenol	0.33	U	0.33	0.10	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
2,6-Dichlorophenol	0.17	U	0.17	0.047	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Diethyl phthalate	0.17	U	0.17	0.055	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Diethylstilbestrol	0.67	U	0.67	0.083	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Dimethoate	0.33	U	0.33	0.075	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
7,12-Dimethylbenz(a)anthracene	0.17	U	0.17	0.041	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
3,3'-Dimethylbenzidine	0.67	U	0.67	0.17	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
2,4-Dimethylphenol	0.33	U	0.33	0.10	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Dimethyl phthalate	0.17	U	0.17	0.042	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Di-n-butyl phthalate	0.17	U	0.17	0.042	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
1,4-Dinitrobenzene	0.17	U	0.17	0.026	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
4,6-Dinitro-2-methylphenol	0.33	U	0.33	0.081	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
2,4-Dinitrophenol	0.67	U	0.67	0.17	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
2,4-Dinitrotoluene	0.17	U	0.17	0.051	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
2,6-Dinitrotoluene	0.17	U	0.17	0.040	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Di-n-octyl phthalate	0.17	U	0.17	0.067	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Dinoseb	0.33	U	0.33	0.086	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
1,4-Dioxane	0.67	U	0.67	0.23	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Diphenylamine	0.17	U	0.17	0.038	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
1,2-Diphenylhydrazine	0.17	U	0.17	0.042	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Disulfoton	0.33	U	0.33	0.050	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Ethyl 4,4'-Dichlorobenzilate	0.17	U	0.17	0.021	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Ethyl methanesulfonate	0.17	U	0.17	0.019	mg/Kg		03/14/13 17:35	03/22/13 21:45	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-179951/1-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 179951

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl Parathion	0.33	U	0.33	0.093	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Famphur	0.33	U	0.33	0.054	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Fluoranthene	0.033	U	0.033	0.014	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Fluorene	0.033	U	0.033	0.0076	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Hexachlorobenzene	0.067	U	0.067	0.0065	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Hexachlorobutadiene	0.17	U	0.17	0.044	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Hexachlorocyclopentadiene	0.67	U	0.67	0.15	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Hexachloroethane	0.17	U	0.17	0.035	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Hexachlorophene	3.3	U	3.3	1.2	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Hexachloropropene	0.33	U	0.33	0.13	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Indeno[1,2,3-cd]pyrene	0.033	U	0.033	0.011	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Isophorone	0.17	U	0.17	0.037	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Isosafrole	0.17	U	0.17	0.018	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Kepone	0.67	U	0.67	0.33	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Malathion	0.33	U	0.33	0.099	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
m-Dinitrobenzene	0.17	U	0.17	0.031	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Methapyrilene	1.3	U	1.3	0.17	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
3-Methylcholanthrene	0.17	U	0.17	0.014	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Methyl methanesulfonate	0.17	U	0.17	0.027	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
2-Methylnaphthalene	0.17	U	0.17	0.043	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Methyl parathion	0.33	U	0.33	0.094	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
2-Methylphenol	0.17	U	0.17	0.044	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
3 & 4 Methylphenol	0.17	U	0.17	0.063	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Naphthalene	0.033	U	0.033	0.0064	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
1,4-Naphthoquinone	0.67	U	0.67	0.33	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
1-Naphthylamine	0.17	U	0.17	0.026	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
2-Naphthylamine	0.17	U	0.17	0.045	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
2-Nitroaniline	0.17	U	0.17	0.060	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
3-Nitroaniline	0.33	U	0.33	0.064	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
4-Nitroaniline	0.33	U	0.33	0.068	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Nitrobenzene	0.033	U	0.033	0.010	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
5-Nitro-o-toluidine	0.17	U	0.17	0.031	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
2-Nitrophenol	0.33	U	0.33	0.052	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
4-Nitrophenol	0.67	U	0.67	0.18	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
4-Nitroquinoline-1-oxide	0.67	U	0.67	0.31	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
N-Nitrosodiethylamine	0.33	U	0.33	0.095	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
N-Nitrosodimethylamine	0.67	U	0.67	0.36	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
N-Nitrosodi-n-butylamine	0.17	U	0.17	0.060	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
N-Nitrosodi-n-propylamine	0.17	U	0.17	0.042	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
N-Nitrosodiphenylamine	0.17	U	0.17	0.045	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
N-Nitrosomethylethylamine	0.67	U	0.67	0.27	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
N-Nitrosomorpholine	0.17	U	0.17	0.031	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
N-Nitrosopiperidine	0.33	U	0.33	0.031	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
N-Nitrosopyrrolidine	0.17	U	0.17	0.038	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
o,o',o''-Triethylphosphorothioate	0.33	U	0.33	0.051	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
o-Toluidine	0.17	U	0.17	0.032	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
2,2'-oxybis[1-chloropropane]	0.17	U	0.17	0.037	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
p-Dimethylamino azobenzene	0.17	U	0.17	0.018	mg/Kg		03/14/13 17:35	03/22/13 21:45	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-179951/1-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 179951

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	0.17	U	0.17	0.042	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Pentachloronitrobenzene	0.17	U	0.17	0.024	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Pentachlorophenol	0.67	U	0.67	0.17	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Phenacetin	0.17	U	0.17	0.035	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Phenanthrene	0.033	U	0.033	0.014	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Phenol	0.17	U	0.17	0.053	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Phorate	0.33	U	0.33	0.070	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
2-Picoline	0.33	U	0.33	0.13	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
p-Phenylene diamine	1.3	U	1.3	0.070	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Pronamide	0.17	U	0.17	0.027	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Pyrene	0.033	U	0.033	0.012	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Pyridine	0.67	U	0.67	0.39	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Safrole	0.17	U	0.17	0.016	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Sulfotepp	0.33	U	0.33	0.066	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
sym-Trinitrobenzene	0.67	U	0.67	0.34	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
1,2,4,5-Tetrachlorobenzene	0.17	U	0.17	0.039	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
2,3,4,6-Tetrachlorophenol	0.17	U	0.17	0.045	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
Thionazin	0.33	U	0.33	0.074	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
1,2,4-Trichlorobenzene	0.17	U	0.17	0.038	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
2,4,5-Trichlorophenol	0.33	U	0.33	0.095	mg/Kg		03/14/13 17:35	03/22/13 21:45	1
2,4,6-Trichlorophenol	0.33	U	0.33	0.042	mg/Kg		03/14/13 17:35	03/22/13 21:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*30 - 119*	*03/14/13 17:35*	*03/22/13 21:45*	*1*
2-Fluorophenol	*72*		*30 - 110*	*03/14/13 17:35*	*03/22/13 21:45*	*1*
Nitrobenzene-d5	*77*		*30 - 115*	*03/14/13 17:35*	*03/22/13 21:45*	*1*
Phenol-d5	*77*		*31 - 110*	*03/14/13 17:35*	*03/22/13 21:45*	*1*
Terphenyl-d14	*84*		*36 - 134*	*03/14/13 17:35*	*03/22/13 21:45*	*1*
2,4,6-Tribromophenol	*80*		*35 - 137*	*03/14/13 17:35*	*03/22/13 21:45*	*1*

Lab Sample ID: LCS 500-179951/2-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179951

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1.67	1.23		mg/Kg		74	53 - 110
Acenaphthylene	1.67	1.14		mg/Kg		68	51 - 110
Acetophenone	1.67	0.987		mg/Kg		59	35 - 100
Aniline	1.67	0.711		mg/Kg		43	34 - 100
Anthracene	1.67	1.39		mg/Kg		83	52 - 110
Benzidine	1.67	0.67	U *	mg/Kg		5	10 - 100
Benzo[a]anthracene	1.67	1.30		mg/Kg		78	57 - 110
Benzo[a]pyrene	1.67	1.37		mg/Kg		82	56 - 110
Benzo[b]fluoranthene	1.67	1.43		mg/Kg		86	50 - 110
Benzo[g,h,i]perylene	1.67	1.19		mg/Kg		72	54 - 117
Benzoic acid	1.67	1.7	U *	mg/Kg		0	10 - 100
Benzo[k]fluoranthene	1.67	1.37		mg/Kg		82	43 - 121
Benzyl alcohol	1.67	1.27		mg/Kg		76	44 - 110

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-179951/2-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179951

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethoxy)methane	1.67	1.24		mg/Kg		75	56 - 110
Bis(2-chloroethyl)ether	1.67	1.27		mg/Kg		76	48 - 110
Bis(2-ethylhexyl) phthalate	1.67	1.37		mg/Kg		82	56 - 114
4-Bromophenyl phenyl ether	1.67	1.34		mg/Kg		80	58 - 111
Butyl benzyl phthalate	1.67	1.51		mg/Kg		91	60 - 120
4-Chloroaniline	1.67	0.867		mg/Kg		52	25 - 110
4-Chloro-3-methylphenol	1.67	1.35		mg/Kg		81	54 - 111
2-Chloronaphthalene	1.67	1.24		mg/Kg		74	54 - 110
2-Chlorophenol	1.67	1.22		mg/Kg		73	53 - 110
4-Chlorophenyl phenyl ether	1.67	1.32		mg/Kg		79	57 - 110
Chrysene	1.67	1.32		mg/Kg		79	54 - 110
Dibenz(a,h)anthracene	1.67	1.26		mg/Kg		76	52 - 118
Dibenzofuran	1.67	1.26		mg/Kg		75	54 - 110
1,2-Dichlorobenzene	1.67	1.18		mg/Kg		71	55 - 110
1,3-Dichlorobenzene	1.67	1.11		mg/Kg		66	52 - 110
1,4-Dichlorobenzene	1.67	1.15		mg/Kg		69	52 - 110
3,3'-Dichlorobenzidine	1.67	1.00		mg/Kg		60	31 - 110
2,4-Dichlorophenol	1.67	1.21		mg/Kg		73	60 - 110
2,6-Dichlorophenol	1.67	1.27		mg/Kg		76	63 - 110
Diethyl phthalate	1.67	1.37		mg/Kg		82	58 - 112
3,3'-Dimethylbenzidine	1.67	0.230	J	mg/Kg		14	10 - 100
2,4-Dimethylphenol	1.67	1.20		mg/Kg		72	52 - 110
Dimethyl phthalate	1.67	1.30		mg/Kg		78	60 - 110
Di-n-butyl phthalate	1.67	1.43		mg/Kg		86	56 - 117
4,6-Dinitro-2-methylphenol	1.67	0.397		mg/Kg		24	10 - 110
2,4-Dinitrophenol	1.67	0.446	J	mg/Kg		27	10 - 110
2,4-Dinitrotoluene	1.67	1.35		mg/Kg		81	57 - 116
2,6-Dinitrotoluene	1.67	1.28		mg/Kg		77	60 - 110
Di-n-octyl phthalate	1.67	1.54		mg/Kg		93	49 - 121
Dinoseb	1.67	0.658	*	mg/Kg		39	50 - 150
1,4-Dioxane	1.67	0.654	J	mg/Kg		39	10 - 100
1,2-Diphenylhydrazine	1.67	1.43		mg/Kg		86	53 - 112
Fluoranthene	1.67	1.42		mg/Kg		85	55 - 113
Fluorene	1.67	1.41		mg/Kg		85	52 - 112
Hexachlorobenzene	1.67	1.26		mg/Kg		76	54 - 114
Hexachlorobutadiene	1.67	1.20		mg/Kg		72	53 - 110
Hexachlorocyclopentadiene	1.67	0.861		mg/Kg		52	10 - 112
Hexachloroethane	1.67	1.20		mg/Kg		72	51 - 110
Hexachloropropene	1.67	1.22		mg/Kg		73	54 - 110
Indeno[1,2,3-cd]pyrene	1.67	1.24		mg/Kg		75	53 - 116
Isophorone	1.67	1.17		mg/Kg		70	49 - 110
2-Methylnaphthalene	1.67	1.28		mg/Kg		77	51 - 110
2-Methylphenol	1.67	1.22		mg/Kg		73	48 - 110
3 & 4 Methylphenol	1.67	1.44		mg/Kg		87	44 - 121
Naphthalene	1.67	1.27		mg/Kg		76	48 - 110
2-Nitroaniline	1.67	1.39		mg/Kg		83	53 - 126
3-Nitroaniline	1.67	0.967		mg/Kg		58	36 - 110
4-Nitroaniline	1.67	1.26		mg/Kg		76	44 - 124

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-179951/2-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179951

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrobenzene	1.67	1.24		mg/Kg		75	52 - 110
2-Nitrophenol	1.67	1.23		mg/Kg		74	54 - 112
4-Nitrophenol	1.67	1.77		mg/Kg		106	39 - 125
N-Nitrosodiethylamine	1.67	1.17		mg/Kg		70	50 - 110
N-Nitrosodimethylamine	1.67	1.39		mg/Kg		83	42 - 110
N-Nitrosodi-n-butylamine	1.67	1.31		mg/Kg		79	46 - 138
N-Nitrosodi-n-propylamine	1.67	1.44		mg/Kg		86	40 - 121
N-Nitrosodiphenylamine	1.67	1.31		mg/Kg		78	58 - 110
N-Nitrosomethylethylamine	1.67	1.24		mg/Kg		74	49 - 114
N-Nitrosopiperidine	1.67	1.21		mg/Kg		72	56 - 123
N-Nitrosopyrrolidine	1.67	1.34		mg/Kg		80	46 - 116
2,2'-oxybis[1-chloropropane]	1.67	1.24		mg/Kg		74	36 - 110
Pentachlorobenzene	1.67	1.25		mg/Kg		75	70 - 110
Pentachlorophenol	1.67	1.10		mg/Kg		66	20 - 117
Phenanthrene	1.67	1.25		mg/Kg		75	51 - 116
Phenol	1.67	1.39		mg/Kg		84	49 - 110
Pyrene	1.67	1.30		mg/Kg		78	50 - 112
Pyridine	1.67	0.678		mg/Kg		41	24 - 100
1,2,4,5-Tetrachlorobenzene	1.67	1.24		mg/Kg		74	63 - 110
2,3,4,6-Tetrachlorophenol	1.67	1.32		mg/Kg		79	45 - 116
1,2,4-Trichlorobenzene	1.67	1.22		mg/Kg		73	57 - 110
2,4,5-Trichlorophenol	1.67	1.33		mg/Kg		80	57 - 113
2,4,6-Trichlorophenol	1.67	1.26		mg/Kg		76	55 - 112

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*83*		*30 - 119*
2-Fluorophenol	*81*		*30 - 110*
Nitrobenzene-d5	*84*		*30 - 115*
Phenol-d5	*83*		*31 - 110*
Terphenyl-d14	*91*		*36 - 134*
2,4,6-Tribromophenol	*87*		*35 - 137*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-179990/1-A
Matrix: Solid
Analysis Batch: 180839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 179990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0017	U	0.0017	0.00069	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
alpha-BHC	0.0017	U	0.0017	0.00042	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
beta-BHC	0.0017	U	0.0017	0.00052	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Chlordane (technical)	0.0067	U	0.0067	0.0033	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
4,4'-DDD	0.0017	U	0.0017	0.00033	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
4,4'-DDE	0.0017	U	0.0017	0.00028	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
4,4'-DDT	0.0017	U	0.0017	0.00088	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
delta-BHC	0.0017	U	0.0017	0.00053	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Dieldrin	0.0017	U	0.0017	0.00023	mg/Kg		03/15/13 07:24	03/26/13 07:14	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 500-179990/1-A
Matrix: Solid
Analysis Batch: 180839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 179990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	0.0017	U	0.0017	0.00073	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Endosulfan II	0.0017	U	0.0017	0.00027	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Endosulfan sulfate	0.0017	U	0.0017	0.00031	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Endrin	0.0017	U	0.0017	0.00023	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Endrin aldehyde	0.0017	U	0.0017	0.00028	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Endrin ketone	0.0017	U	0.0017	0.00038	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
gamma-BHC (Lindane)	0.0017	U	0.0017	0.00036	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Heptachlor	0.0017	U	0.0017	0.00070	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Heptachlor epoxide	0.0017	U	0.0017	0.00059	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Isodrin	0.0017	U	0.0017	0.00078	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Methoxychlor	0.0083	U	0.0083	0.00032	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Toxaphene	0.017	U	0.017	0.0070	mg/Kg		03/15/13 07:24	03/26/13 07:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*56 - 128*	*03/15/13 07:24*	*03/26/13 07:14*	*1*
Tetrachloro-m-xylene	*63*		*45 - 112*	*03/15/13 07:24*	*03/26/13 07:14*	*1*

Lab Sample ID: LCS 500-179990/2-A
Matrix: Solid
Analysis Batch: 180839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.0133	0.00843		mg/Kg		63	54 - 110
alpha-BHC	0.0133	0.00849		mg/Kg		64	53 - 110
beta-BHC	0.0133	0.0103		mg/Kg		77	65 - 110
4,4'-DDD	0.0133	0.0104		mg/Kg		78	66 - 110
4,4'-DDE	0.0133	0.0100		mg/Kg		75	64 - 110
4,4'-DDT	0.0133	0.00970		mg/Kg		73	50 - 115
delta-BHC	0.0133	0.00913		mg/Kg		68	50 - 110
Dieldrin	0.0133	0.00992		mg/Kg		74	63 - 110
Endosulfan I	0.0133	0.00967		mg/Kg		73	51 - 110
Endosulfan II	0.0133	0.00995		mg/Kg		75	56 - 110
Endosulfan sulfate	0.0133	0.0104		mg/Kg		78	63 - 120
Endrin	0.0133	0.00964		mg/Kg		72	59 - 110
Endrin aldehyde	0.0133	0.00993		mg/Kg		74	56 - 110
Endrin ketone	0.0133	0.0103		mg/Kg		77	59 - 120
gamma-BHC (Lindane)	0.0133	0.00896		mg/Kg		67	55 - 110
Heptachlor	0.0133	0.00942		mg/Kg		71	50 - 110
Heptachlor epoxide	0.0133	0.0102		mg/Kg		76	50 - 122
Methoxychlor	0.0133	0.0102		mg/Kg		76	52 - 119

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*82*		*56 - 128*
Tetrachloro-m-xylene	*58*		*45 - 112*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 680-88244-2 MS
Matrix: Solid
Analysis Batch: 180839

Client Sample ID: DDSB-2-0-2-20130312-01
Prep Type: Total/NA
Prep Batch: 179990

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.019	U	0.0144	0.0144	J	mg/Kg	☼	100	54 - 110
alpha-BHC	0.019	U	0.0144	0.0102	J	mg/Kg	☼	71	53 - 110
beta-BHC	0.019	U	0.0144	0.0123	J	mg/Kg	☼	85	65 - 110
4,4'-DDD	0.019	U	0.0144	0.0162	J F	mg/Kg	☼	112	66 - 110
4,4'-DDE	0.019	U	0.0144	0.0373	F	mg/Kg	☼	259	64 - 110
4,4'-DDT	0.019	U	0.0144	0.0256	F	mg/Kg	☼	178	50 - 115
delta-BHC	0.019	U	0.0144	0.0122	J	mg/Kg	☼	85	50 - 110
Dieldrin	0.019	U	0.0144	0.0145	J	mg/Kg	☼	101	63 - 110
Endosulfan I	0.019	U	0.0144	0.0167	J F	mg/Kg	☼	116	51 - 110
Endosulfan II	0.019	U	0.0144	0.0196	F	mg/Kg	☼	136	56 - 110
Endosulfan sulfate	0.019	U	0.0144	0.0232	F	mg/Kg	☼	161	63 - 120
Endrin	0.019	U	0.0144	0.0118	J	mg/Kg	☼	81	59 - 110
Endrin aldehyde	0.019	U	0.0144	0.0267	F	mg/Kg	☼	185	56 - 110
Endrin ketone	0.019	U	0.0144	0.0155	J	mg/Kg	☼	107	59 - 120
gamma-BHC (Lindane)	0.019	U	0.0144	0.0105	J	mg/Kg	☼	73	55 - 110
Heptachlor	0.019	U	0.0144	0.0130	J	mg/Kg	☼	90	50 - 110
Heptachlor epoxide	0.019	U	0.0144	0.0180	F	mg/Kg	☼	125	50 - 122
Methoxychlor	0.093	U	0.0144	0.0274	J F	mg/Kg	☼	190	52 - 119

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*73*		*56 - 128*
Tetrachloro-m-xylene	*52*		*45 - 112*

Lab Sample ID: 680-88244-2 MSD
Matrix: Solid
Analysis Batch: 180839

Client Sample ID: DDSB-2-0-2-20130312-01
Prep Type: Total/NA
Prep Batch: 179990

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	0.019	U	0.0146	0.0138	J	mg/Kg	☼	94	54 - 110	5	30
alpha-BHC	0.019	U	0.0146	0.00951	J	mg/Kg	☼	65	53 - 110	7	30
beta-BHC	0.019	U	0.0146	0.0115	J	mg/Kg	☼	79	65 - 110	6	30
4,4'-DDD	0.019	U	0.0146	0.0161	J	mg/Kg	☼	110	66 - 110	1	30
4,4'-DDE	0.019	U	0.0146	0.0385	F	mg/Kg	☼	263	64 - 110	3	30
4,4'-DDT	0.019	U	0.0146	0.0255	F	mg/Kg	☼	174	50 - 115	0	30
delta-BHC	0.019	U	0.0146	0.0115	J	mg/Kg	☼	78	50 - 110	6	30
Dieldrin	0.019	U	0.0146	0.0130	J	mg/Kg	☼	89	63 - 110	11	30
Endosulfan I	0.019	U	0.0146	0.0161	J	mg/Kg	☼	110	51 - 110	4	30
Endosulfan II	0.019	U	0.0146	0.0253	F	mg/Kg	☼	173	56 - 110	25	30
Endosulfan sulfate	0.019	U	0.0146	0.0231	F	mg/Kg	☼	158	63 - 120	0	30
Endrin	0.019	U	0.0146	0.0114	J	mg/Kg	☼	78	59 - 110	3	30
Endrin aldehyde	0.019	U	0.0146	0.0266	F	mg/Kg	☼	182	56 - 110	0	30
Endrin ketone	0.019	U	0.0146	0.0169	J	mg/Kg	☼	115	59 - 120	9	30
gamma-BHC (Lindane)	0.019	U	0.0146	0.00963	J	mg/Kg	☼	66	55 - 110	8	30
Heptachlor	0.019	U	0.0146	0.0125	J	mg/Kg	☼	86	50 - 110	4	30
Heptachlor epoxide	0.019	U	0.0146	0.0169	J	mg/Kg	☼	116	50 - 122	6	30
Methoxychlor	0.093	U	0.0146	0.0268	J F	mg/Kg	☼	183	52 - 119	2	30

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 680-88244-2 MSD
Matrix: Solid
Analysis Batch: 180839

Client Sample ID: DDSB-2-0-2-20130312-01
Prep Type: Total/NA
Prep Batch: 179990

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	66		56 - 128
Tetrachloro-m-xylene	39	X	45 - 112

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-179990/1-A
Matrix: Solid
Analysis Batch: 180342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 179990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.017	U	0.017	0.0059	mg/Kg		03/15/13 07:24	03/20/13 08:23	1
PCB-1221	0.017	U	0.017	0.0073	mg/Kg		03/15/13 07:24	03/20/13 08:23	1
PCB-1232	0.017	U	0.017	0.0073	mg/Kg		03/15/13 07:24	03/20/13 08:23	1
PCB-1242	0.017	U	0.017	0.0055	mg/Kg		03/15/13 07:24	03/20/13 08:23	1
PCB-1248	0.017	U	0.017	0.0066	mg/Kg		03/15/13 07:24	03/20/13 08:23	1
PCB-1254	0.017	U	0.017	0.0036	mg/Kg		03/15/13 07:24	03/20/13 08:23	1
PCB-1260	0.017	U	0.017	0.0082	mg/Kg		03/15/13 07:24	03/20/13 08:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		50 - 116	03/15/13 07:24	03/20/13 08:23	1
DCB Decachlorobiphenyl	108		48 - 142	03/15/13 07:24	03/20/13 08:23	1

Lab Sample ID: LCS 500-179990/3-A
Matrix: Solid
Analysis Batch: 180342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.167	0.121		mg/Kg		72	59 - 110
PCB-1260	0.167	0.165		mg/Kg		99	69 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	77		50 - 116
DCB Decachlorobiphenyl	100		48 - 142

Lab Sample ID: 680-88244-2 MS
Matrix: Solid
Analysis Batch: 180342

Client Sample ID: DDSB-2-0-2-20130312-01
Prep Type: Total/NA
Prep Batch: 179990

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.019	U	0.185	0.139		mg/Kg	☼	75	59 - 110
PCB-1260	0.019	U	0.185	0.167		mg/Kg	☼	90	69 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	74		50 - 116
DCB Decachlorobiphenyl	95		48 - 142

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 680-88244-2 MSD
Matrix: Solid
Analysis Batch: 180342

Client Sample ID: DDSB-2-0-2-20130312-01
Prep Type: Total/NA
Prep Batch: 179990

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	0.019	U	0.181	0.122		mg/Kg	☼	67	59 - 110	13	30
PCB-1260	0.019	U	0.181	0.136		mg/Kg	☼	75	69 - 120	20	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*69*		*50 - 116*
DCB Decachlorobiphenyl	*77*		*48 - 142*

Method: 8141A - Organophosphorous Pesticides (GC)

Lab Sample ID: MB 640-100242/1-A
Matrix: Solid
Analysis Batch: 100656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100242

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.065	U	0.065	0.0029	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Azinphos-methyl	0.065	U	0.065	0.015	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Bolstar	0.033	U	0.033	0.0046	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Carbophenthion	0.065	U	0.065	0.0052	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Chlorpyrifos	0.033	U	0.033	0.0067	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Chlorpyrifos-methyl	0.033	U	0.033	0.012	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Coumaphos	0.33	U	0.33	0.022	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Demeton-O	0.082	U	0.082	0.0026	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Demeton-S	0.082	U	0.082	0.0055	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Demeton, Total	0.082	U	0.082	0.0076	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Diazinon	0.033	U	0.033	0.0056	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Dichlofenthion	0.033	U	0.033	0.0042	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Dichlorvos	0.065	U	0.065	0.0063	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Dimethoate	0.065	U	0.065	0.0087	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Disulfoton	0.065	U	0.065	0.016	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
EPN	0.033	U	0.033	0.0045	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Ethion	0.017	U	0.017	0.0052	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Ethoprop	0.017	U	0.017	0.0042	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Ethyl Parathion	0.033	U	0.033	0.0054	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Famphur	0.065	U	0.065	0.0082	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Fensulfothion	0.33	U	0.33	0.012	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Fenthion	0.033	U	0.033	0.0046	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Malathion	0.033	U	0.033	0.0081	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Merphos	0.033	U	0.033	0.011	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Methyl parathion	0.017	U	0.017	0.0053	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Mevinphos	0.065	U	0.065	0.0045	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Monochrotophos	0.33	U	0.33	0.045	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Naled	0.33	U	0.33	0.022	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Phorate	0.033	U	0.033	0.0053	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Ronnel	0.033	U	0.033	0.0042	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Simazine	0.065	U	0.065	0.0032	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Stirophos	0.033	U	0.033	0.0063	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Sulfotepp	0.017	U	0.017	0.0085	mg/Kg		03/16/13 09:29	03/28/13 15:05	1

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: MB 640-100242/1-A
Matrix: Solid
Analysis Batch: 100656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100242

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Terbufos	0.017	U	0.017	0.016	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Thionazin	0.033	U	0.033	0.0099	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Tokuthion	0.033	U	0.033	0.0053	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Trichloronate	0.33	U	0.33	0.0075	mg/Kg		03/16/13 09:29	03/28/13 15:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate (TPP)	*81*		*35 - 134*	*03/16/13 09:29*	*03/28/13 15:05*	*1*

Lab Sample ID: LCS 640-100242/2-A
Matrix: Solid
Analysis Batch: 100656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100242

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	0.654	0.465		mg/Kg		71	56 - 119
Azinphos-methyl	0.164	0.157		mg/Kg		96	52 - 122
Bolstar	0.164	0.135		mg/Kg		83	55 - 141
Chlorpyrifos	0.164	0.110		mg/Kg		67	40 - 132
Coumaphos	0.164	0.154	J	mg/Kg		94	47 - 160
Demeton, Total	0.327	0.217		mg/Kg		66	31 - 118
Diazinon	0.164	0.103		mg/Kg		63	36 - 113
Dichlofenthion	0.164	0.108		mg/Kg		66	36 - 114
Dichlorvos	0.164	0.0795		mg/Kg		49	10 - 154
EPN	0.164	0.196		mg/Kg		120	68 - 159
Ethion	0.164	0.127		mg/Kg		77	49 - 128
Ethoprop	0.164	0.103		mg/Kg		63	23 - 134
Ethyl Parathion	0.164	0.131		mg/Kg		80	53 - 126
Famphur	0.164	0.154		mg/Kg		94	53 - 118
Fensulfothion	0.164	0.175	J	mg/Kg		107	33 - 168
Fenthion	0.164	0.118		mg/Kg		72	41 - 136
Malathion	0.164	0.116		mg/Kg		71	45 - 125
Methyl parathion	0.164	0.124		mg/Kg		76	44 - 126
Mevinphos	0.164	0.108		mg/Kg		66	10 - 156
Monochrotophos	0.654	0.163	J	mg/Kg		25	15 - 167
Naled	0.654	0.361		mg/Kg		55	13 - 102
Phorate	0.164	0.0921		mg/Kg		56	17 - 142
Ronnel	0.164	0.122		mg/Kg		75	36 - 134
Simazine	0.654	0.370		mg/Kg		57	42 - 127
Tokuthion	0.164	0.122		mg/Kg		75	48 - 142

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate (TPP)	*79*		*35 - 134*

Lab Sample ID: LCSD 640-100242/3-A
Matrix: Solid
Analysis Batch: 100656

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100242

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Atrazine	0.650	0.431		mg/Kg		66	56 - 119	8	30

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: LCSD 640-100242/3-A
Matrix: Solid
Analysis Batch: 100656

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100242

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Azinphos-methyl			0.163	0.150		mg/Kg		92	52 - 122	5	30
Bolstar			0.163	0.125		mg/Kg		77	55 - 141	8	30
Chlorpyrifos			0.163	0.106		mg/Kg		65	40 - 132	4	30
Coumaphos			0.163	0.149	J	mg/Kg		92	47 - 160	3	30
Demeton, Total			0.325	0.207		mg/Kg		64	31 - 118	4	41
Diazinon			0.163	0.0979		mg/Kg		60	36 - 113	5	38
Dichlofenthion			0.163	0.104		mg/Kg		64	36 - 114	5	33
Dichlorvos			0.163	0.0733		mg/Kg		45	10 - 154	8	51
EPN			0.163	0.181		mg/Kg		111	68 - 159	8	30
Ethion			0.163	0.113		mg/Kg		69	49 - 128	12	30
Ethoprop			0.163	0.0995		mg/Kg		61	23 - 134	4	45
Ethyl Parathion			0.163	0.140		mg/Kg		86	53 - 126	7	30
Famphur			0.163	0.139		mg/Kg		86	53 - 118	10	30
Fensulfothion			0.163	0.160	J	mg/Kg		99	33 - 168	9	30
Fenthion			0.163	0.114		mg/Kg		70	41 - 136	4	30
Malathion			0.163	0.110		mg/Kg		68	45 - 125	5	30
Methyl parathion			0.163	0.123		mg/Kg		75	44 - 126	1	30
Mevinphos			0.163	0.0952		mg/Kg		59	10 - 156	13	50
Monochrotophos			0.650	0.137	J	mg/Kg		21	15 - 167	17	60
Naled			0.650	0.349		mg/Kg		54	13 - 102	4	53
Phorate			0.163	0.0864		mg/Kg		53	17 - 142	6	46
Ronnel			0.163	0.115		mg/Kg		71	36 - 134	6	35
Simazine			0.650	0.338		mg/Kg		52	42 - 127	9	31
Tokuthion			0.163	0.109		mg/Kg		67	48 - 142	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Triphenylphosphate (TPP)	*76*		*35 - 134*

Lab Sample ID: 680-88244-2 MS
Matrix: Solid
Analysis Batch: 100667

Client Sample ID: DDSB-2-0-2-20130312-01
Prep Type: Total/NA
Prep Batch: 100242

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Atrazine	0.075	U	0.755	0.610		mg/Kg	☼	81	19 - 121		
Azinphos-methyl	0.075	U	0.189	0.174		mg/Kg	☼	92	28 - 106		
Bolstar	0.037	U	0.189	0.103		mg/Kg	☼	55	37 - 130		
Chlorpyrifos	0.037	U	0.189	0.117		mg/Kg	☼	62	26 - 127		
Coumaphos	0.37	U	0.189	0.116	J	mg/Kg	☼	61	28 - 139		
Demeton, Total	0.094	U	0.377	0.190		mg/Kg	☼	50	10 - 124		
Diazinon	0.037	U	0.189	0.123		mg/Kg	☼	65	18 - 121		
Dichlofenthion	0.037	U	0.189	0.108		mg/Kg	☼	57	24 - 104		
Dichlorvos	0.075	U	0.189	0.0966		mg/Kg	☼	51	10 - 139		
EPN	0.037	U	0.189	0.178		mg/Kg	☼	94	39 - 146		
Ethion	0.019	U	0.189	0.116		mg/Kg	☼	61	40 - 118		
Ethoprop	0.019	U	0.189	0.141		mg/Kg	☼	75	10 - 130		
Ethyl Parathion	0.037	U	0.189	0.227		mg/Kg	☼	120	42 - 124		
Famphur	0.075	U	0.189	0.165		mg/Kg	☼	87	24 - 105		
Fensulfothion	0.37	U	0.189	0.183	J	mg/Kg	☼	97	10 - 150		

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: 680-88244-2 MS
Matrix: Solid
Analysis Batch: 100667

Client Sample ID: DDSB-2-0-2-20130312-01
Prep Type: Total/NA
Prep Batch: 100242

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fenthion	0.037	U	0.189	0.149		mg/Kg	☼	79	21 - 133
Malathion	0.037	U	0.189	0.156		mg/Kg	☼	83	30 - 119
Methyl parathion	0.019	U	0.189	0.205		mg/Kg	☼	109	32 - 119
Mevinphos	0.075	U	0.189	0.0994		mg/Kg	☼	53	10 - 129
Monochrotophos	0.37	U	0.755	0.37	U F	mg/Kg	☼	0	10 - 128
Naled	0.37	U	0.755	0.566		mg/Kg	☼	75	10 - 121
Phorate	0.037	U	0.189	0.0923		mg/Kg	☼	49	10 - 150
Ronnel	0.037	U	0.189	0.128		mg/Kg	☼	68	18 - 128
Simazine	0.075	U	0.755	0.465		mg/Kg	☼	62	10 - 120
Tokuthion	0.037	U	0.189	0.114		mg/Kg	☼	60	39 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Triphenylphosphate (TPP)	*74*		*35 - 134*

Lab Sample ID: 680-88244-2 MSD
Matrix: Solid
Analysis Batch: 100667

Client Sample ID: DDSB-2-0-2-20130312-01
Prep Type: Total/NA
Prep Batch: 100242

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Atrazine	0.075	U	0.765	0.547		mg/Kg	☼	72	19 - 121	11	60
Azinphos-methyl	0.075	U	0.191	0.193		mg/Kg	☼	101	28 - 106	10	40
Bolstar	0.037	U	0.191	0.0768		mg/Kg	☼	40	37 - 130	29	30
Chlorpyrifos	0.037	U	0.191	0.0826		mg/Kg	☼	43	26 - 127	35	40
Coumaphos	0.37	U	0.191	0.124	J	mg/Kg	☼	65	28 - 139	7	36
Demeton, Total	0.094	U	0.382	0.202		mg/Kg	☼	53	10 - 124	6	54
Diazinon	0.037	U	0.191	0.113		mg/Kg	☼	59	18 - 121	8	60
Dichlofenthion	0.037	U	0.191	0.0764	F	mg/Kg	☼	40	24 - 104	35	30
Dichlorvos	0.075	U	0.191	0.0791		mg/Kg	☼	41	10 - 139	20	60
EPN	0.037	U	0.191	0.142		mg/Kg	☼	74	39 - 146	22	30
Ethion	0.019	U	0.191	0.0765	F	mg/Kg	☼	40	40 - 118	41	33
Ethoprop	0.019	U	0.191	0.125		mg/Kg	☼	65	10 - 130	12	60
Ethyl Parathion	0.037	U	0.191	0.199		mg/Kg	☼	104	42 - 124	13	40
Famphur	0.075	U	0.191	0.155		mg/Kg	☼	81	24 - 105	6	38
Fensulfothion	0.37	U	0.191	0.189	J	mg/Kg	☼	99	10 - 150	3	60
Fenthion	0.037	U	0.191	0.142		mg/Kg	☼	74	21 - 133	5	36
Malathion	0.037	U	0.191	0.132		mg/Kg	☼	69	30 - 119	17	32
Methyl parathion	0.019	U	0.191	0.178		mg/Kg	☼	93	32 - 119	14	42
Mevinphos	0.075	U	0.191	0.0849		mg/Kg	☼	44	10 - 129	16	60
Monochrotophos	0.37	U	0.765	0.38	U F	mg/Kg	☼	0	10 - 128	NC	60
Naled	0.37	U	0.765	0.492		mg/Kg	☼	64	10 - 121	14	60
Phorate	0.037	U	0.191	0.0847		mg/Kg	☼	44	10 - 150	9	60
Ronnel	0.037	U	0.191	0.0996		mg/Kg	☼	52	18 - 128	25	57
Simazine	0.075	U	0.765	0.420		mg/Kg	☼	55	10 - 120	10	60
Tokuthion	0.037	U	0.191	0.0727	F	mg/Kg	☼	38	39 - 135	44	37

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Triphenylphosphate (TPP)	*62*		*35 - 134*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 680-269345/1-A
Matrix: Solid
Analysis Batch: 269937

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 269345

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19	U	19	9.7	mg/Kg		03/14/13 10:15	03/19/13 05:23	1
Antimony	1.9	U	1.9	0.51	mg/Kg		03/14/13 10:15	03/19/13 05:23	1
Arsenic	1.9	U	1.9	0.57	mg/Kg		03/14/13 10:15	03/19/13 05:23	1
Barium	0.97	U	0.97	0.29	mg/Kg		03/14/13 10:15	03/19/13 05:23	1
Beryllium	0.39	U	0.39	0.019	mg/Kg		03/14/13 10:15	03/19/13 05:23	1
Cadmium	0.49	U	0.49	0.097	mg/Kg		03/14/13 10:15	03/19/13 05:23	1
Calcium	49	U	49	19	mg/Kg		03/14/13 10:15	03/19/13 05:23	1
Chromium	0.97	U	0.97	0.49	mg/Kg		03/14/13 10:15	03/19/13 05:23	1
Cobalt	0.97	U	0.97	0.12	mg/Kg		03/14/13 10:15	03/19/13 05:23	1
Copper	2.4	U	2.4	1.1	mg/Kg		03/14/13 10:15	03/19/13 05:23	1
Iron	19	U	19	6.8	mg/Kg		03/14/13 10:15	03/19/13 05:23	1
Lead	0.97	U	0.97	0.51	mg/Kg		03/14/13 10:15	03/19/13 05:23	1
Magnesium	49	U	49	2.3	mg/Kg		03/14/13 10:15	03/19/13 05:23	1
Manganese	0.97	U	0.97	0.29	mg/Kg		03/14/13 10:15	03/19/13 05:23	1
Nickel	3.9	U	3.9	0.30	mg/Kg		03/14/13 10:15	03/19/13 05:23	1
Potassium	97	U	97	7.8	mg/Kg		03/14/13 10:15	03/19/13 05:23	1
Selenium	2.4	U	2.4	0.97	mg/Kg		03/14/13 10:15	03/19/13 05:23	1
Silver	0.97	U	0.97	0.093	mg/Kg		03/14/13 10:15	03/19/13 05:23	1
Sodium	190	U	190	80	mg/Kg		03/14/13 10:15	03/19/13 05:23	1
Thallium	2.4	U	2.4	0.96	mg/Kg		03/14/13 10:15	03/19/13 05:23	1
Vanadium	0.97	U	0.97	0.23	mg/Kg		03/14/13 10:15	03/19/13 05:23	1
Zinc	1.9	U	1.9	1.2	mg/Kg		03/14/13 10:15	03/19/13 05:23	1

Lab Sample ID: LCS 680-269345/3-A
Matrix: Solid
Analysis Batch: 269937

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269345

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	200	207		mg/Kg		104	75 - 125
Antimony	20.0	19.1		mg/Kg		96	75 - 125
Arsenic	20.0	21.2		mg/Kg		106	75 - 125
Barium	20.0	19.3		mg/Kg		97	75 - 125
Beryllium	20.0	20.1		mg/Kg		101	75 - 125
Cadmium	20.0	19.9		mg/Kg		100	75 - 125
Calcium	2000	1880		mg/Kg		94	75 - 125
Chromium	20.0	20.1		mg/Kg		101	75 - 125
Cobalt	20.0	19.6		mg/Kg		98	75 - 125
Copper	20.0	19.8		mg/Kg		99	75 - 125
Iron	2000	2080		mg/Kg		104	75 - 125
Lead	20.0	19.9		mg/Kg		100	75 - 125
Magnesium	2000	1960		mg/Kg		98	75 - 125
Manganese	200	206		mg/Kg		103	75 - 125
Nickel	20.0	20.1		mg/Kg		100	75 - 125
Potassium	2000	1830		mg/Kg		92	75 - 125
Selenium	20.0	18.8		mg/Kg		94	75 - 125
Silver	20.0	20.1		mg/Kg		101	75 - 125
Sodium	2000	1700		mg/Kg		85	75 - 125
Thallium	4.00	4.28		mg/Kg		107	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 680-269345/3-A
Matrix: Solid
Analysis Batch: 269937

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269345

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	20.0	20.0		mg/Kg		100	75 - 125
Zinc	20.0	19.3		mg/Kg		96	75 - 125

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 680-269187/1-A
Matrix: Solid
Analysis Batch: 269837

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 269187

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	U	0.019	0.0076	mg/Kg		03/13/13 10:48	03/19/13 14:48	1

Lab Sample ID: LCS 680-269187/2-A
Matrix: Solid
Analysis Batch: 269837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269187

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.231	0.258		mg/Kg		111	80 - 120

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 680-269364/1-A
Matrix: Solid
Analysis Batch: 269575

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 269364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.96	U	0.96	0.29	mg/Kg		03/14/13 11:02	03/15/13 12:56	1

Lab Sample ID: LCS 680-269364/2-A
Matrix: Solid
Analysis Batch: 269575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269364

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	19.6	18.2		mg/Kg		93	80 - 120

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 680-269173/1-A
Matrix: Solid
Analysis Batch: 269251

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 269173

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.50	U	0.50	0.21	mg/Kg		03/13/13 10:00	03/13/13 13:56	1

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 680-269173/2-A
Matrix: Solid
Analysis Batch: 269251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269173

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	5.00	4.72		mg/Kg		94	75 - 125

Lab Sample ID: 680-88244-2 MS
Matrix: Solid
Analysis Batch: 269251

Client Sample ID: DDSB-2-0-2-20130312-01
Prep Type: Total/NA
Prep Batch: 269173

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.82		5.48	5.48		mg/Kg	☼	85	75 - 125

Lab Sample ID: 680-88244-2 MSD
Matrix: Solid
Analysis Batch: 269251

Client Sample ID: DDSB-2-0-2-20130312-01
Prep Type: Total/NA
Prep Batch: 269173

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.82		5.48	6.24		mg/Kg	☼	99	75 - 125	13	30

QC Association Summary

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88244-1
SDG: AGL88244-1

GC/MS VOA

Prep Batch: 269445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88244-2	DDSB-2-0-2-20130312-01	Total/NA	Solid	5035	
680-88244-3	DDSB-2-9-11-20130312-01	Total/NA	Solid	5035	

Analysis Batch: 269520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88244-1	TRIP BLANK (LOT # 121212)	Total/NA	Water	8260B	
LCS 680-269520/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-269520/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-269520/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 270940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88244-2	DDSB-2-0-2-20130312-01	Total/NA	Solid	8260B	269445
680-88244-3	DDSB-2-9-11-20130312-01	Total/NA	Solid	8260B	269445
LCS 680-270940/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 680-270940/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 680-270940/6	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 179951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88244-2	DDSB-2-0-2-20130312-01	Total/NA	Solid	3541	
680-88244-3	DDSB-2-9-11-20130312-01	Total/NA	Solid	3541	
LCS 500-179951/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-179951/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 180723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88244-2	DDSB-2-0-2-20130312-01	Total/NA	Solid	8270C	179951
680-88244-3	DDSB-2-9-11-20130312-01	Total/NA	Solid	8270C	179951
LCS 500-179951/2-A	Lab Control Sample	Total/NA	Solid	8270C	179951
MB 500-179951/1-A	Method Blank	Total/NA	Solid	8270C	179951

GC Semi VOA

Prep Batch: 100242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88244-2	DDSB-2-0-2-20130312-01	Total/NA	Solid	3550B	
680-88244-2 MS	DDSB-2-0-2-20130312-01	Total/NA	Solid	3550B	
680-88244-2 MSD	DDSB-2-0-2-20130312-01	Total/NA	Solid	3550B	
680-88244-3	DDSB-2-9-11-20130312-01	Total/NA	Solid	3550B	
LCS 640-100242/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 640-100242/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	
MB 640-100242/1-A	Method Blank	Total/NA	Solid	3550B	

Analysis Batch: 100656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 640-100242/2-A	Lab Control Sample	Total/NA	Solid	8141A	100242
LCSD 640-100242/3-A	Lab Control Sample Dup	Total/NA	Solid	8141A	100242

GC Semi VOA (Continued)

Analysis Batch: 100656 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 640-100242/1-A	Method Blank	Total/NA	Solid	8141A	100242

Analysis Batch: 100667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88244-2	DDSB-2-0-2-20130312-01	Total/NA	Solid	8141A	100242
680-88244-2 MS	DDSB-2-0-2-20130312-01	Total/NA	Solid	8141A	100242
680-88244-2 MSD	DDSB-2-0-2-20130312-01	Total/NA	Solid	8141A	100242
680-88244-3	DDSB-2-9-11-20130312-01	Total/NA	Solid	8141A	100242

Prep Batch: 179990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88244-2	DDSB-2-0-2-20130312-01	Total/NA	Solid	3541	
680-88244-2 MS	DDSB-2-0-2-20130312-01	Total/NA	Solid	3541	
680-88244-2 MS	DDSB-2-0-2-20130312-01	Total/NA	Solid	3541	
680-88244-2 MSD	DDSB-2-0-2-20130312-01	Total/NA	Solid	3541	
680-88244-2 MSD	DDSB-2-0-2-20130312-01	Total/NA	Solid	3541	
680-88244-3	DDSB-2-9-11-20130312-01	Total/NA	Solid	3541	
LCS 500-179990/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-179990/3-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-179990/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 180342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88244-2	DDSB-2-0-2-20130312-01	Total/NA	Solid	8082	179990
680-88244-2 MS	DDSB-2-0-2-20130312-01	Total/NA	Solid	8082	179990
680-88244-2 MSD	DDSB-2-0-2-20130312-01	Total/NA	Solid	8082	179990
680-88244-3	DDSB-2-9-11-20130312-01	Total/NA	Solid	8082	179990
LCS 500-179990/3-A	Lab Control Sample	Total/NA	Solid	8082	179990
MB 500-179990/1-A	Method Blank	Total/NA	Solid	8082	179990

Analysis Batch: 180839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88244-2	DDSB-2-0-2-20130312-01	Total/NA	Solid	8081A	179990
680-88244-2 MS	DDSB-2-0-2-20130312-01	Total/NA	Solid	8081A	179990
680-88244-2 MSD	DDSB-2-0-2-20130312-01	Total/NA	Solid	8081A	179990
680-88244-3	DDSB-2-9-11-20130312-01	Total/NA	Solid	8081A	179990
LCS 500-179990/2-A	Lab Control Sample	Total/NA	Solid	8081A	179990
MB 500-179990/1-A	Method Blank	Total/NA	Solid	8081A	179990

Metals

Prep Batch: 269187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88244-2	DDSB-2-0-2-20130312-01	Total/NA	Solid	7471A	
680-88244-3	DDSB-2-9-11-20130312-01	Total/NA	Solid	7471A	
LCS 680-269187/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 680-269187/1-A	Method Blank	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 269345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88244-2	DDSB-2-0-2-20130312-01	Total/NA	Solid	3050B	
680-88244-3	DDSB-2-9-11-20130312-01	Total/NA	Solid	3050B	
LCS 680-269345/3-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 680-269345/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 269837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88244-2	DDSB-2-0-2-20130312-01	Total/NA	Solid	7471A	269187
680-88244-3	DDSB-2-9-11-20130312-01	Total/NA	Solid	7471A	269187
LCS 680-269187/2-A	Lab Control Sample	Total/NA	Solid	7471A	269187
MB 680-269187/1-A	Method Blank	Total/NA	Solid	7471A	269187

Analysis Batch: 269937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88244-2	DDSB-2-0-2-20130312-01	Total/NA	Solid	6010B	269345
680-88244-3	DDSB-2-9-11-20130312-01	Total/NA	Solid	6010B	269345
LCS 680-269345/3-A	Lab Control Sample	Total/NA	Solid	6010B	269345
MB 680-269345/1-A	Method Blank	Total/NA	Solid	6010B	269345

General Chemistry

Prep Batch: 269173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88244-2	DDSB-2-0-2-20130312-01	Total/NA	Solid	9012A	
680-88244-2 MS	DDSB-2-0-2-20130312-01	Total/NA	Solid	9012A	
680-88244-2 MSD	DDSB-2-0-2-20130312-01	Total/NA	Solid	9012A	
680-88244-3	DDSB-2-9-11-20130312-01	Total/NA	Solid	9012A	
LCS 680-269173/2-A	Lab Control Sample	Total/NA	Solid	9012A	
MB 680-269173/1-A	Method Blank	Total/NA	Solid	9012A	

Analysis Batch: 269251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88244-2	DDSB-2-0-2-20130312-01	Total/NA	Solid	9012A	269173
680-88244-2 MS	DDSB-2-0-2-20130312-01	Total/NA	Solid	9012A	269173
680-88244-2 MSD	DDSB-2-0-2-20130312-01	Total/NA	Solid	9012A	269173
680-88244-3	DDSB-2-9-11-20130312-01	Total/NA	Solid	9012A	269173
LCS 680-269173/2-A	Lab Control Sample	Total/NA	Solid	9012A	269173
MB 680-269173/1-A	Method Blank	Total/NA	Solid	9012A	269173

Prep Batch: 269364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88244-2	DDSB-2-0-2-20130312-01	Total/NA	Solid	3060A	
680-88244-3	DDSB-2-9-11-20130312-01	Total/NA	Solid	3060A	
LCS 680-269364/2-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 680-269364/1-A	Method Blank	Total/NA	Solid	3060A	

Analysis Batch: 269575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88244-2	DDSB-2-0-2-20130312-01	Total/NA	Solid	7196A	269364
680-88244-3	DDSB-2-9-11-20130312-01	Total/NA	Solid	7196A	269364

General Chemistry (Continued)

Analysis Batch: 269575 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-269364/2-A	Lab Control Sample	Total/NA	Solid	7196A	269364
MB 680-269364/1-A	Method Blank	Total/NA	Solid	7196A	269364

Lab Chronicle

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88244-1
SDG: AGL88244-1

Client Sample ID: TRIP BLANK (LOT # 121212)

Lab Sample ID: 680-88244-1
Date Collected: 03/12/13 00:00
Matrix: Water
Date Received: 03/12/13 13:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	269520	03/15/13 13:50	AJMC	TAL SAV

Client Sample ID: DDSB-2-0-2-20130312-01

Lab Sample ID: 680-88244-2
Date Collected: 03/12/13 10:45
Matrix: Solid
Date Received: 03/12/13 13:03
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.026 g	5 mL	269445	03/14/13 16:57	FS	TAL SAV
Total/NA	Analysis	8260B		1			270940	03/26/13 15:14	RB	TAL SAV
Total/NA	Prep	3541			15.5187 g	0.5 mL	179951	03/14/13 17:35	DEA	TAL CHI
Total/NA	Analysis	8270C		1			180723	03/22/13 22:41	GES	TAL CHI
Total/NA	Prep	3541			15.3944 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 08:52	GMO	TAL CHI
Total/NA	Prep	3541			15.3944 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8081A		10			180839	03/26/13 07:55	PG	TAL CHI
Total/NA	Prep	3550B			00030.49 g	10.0 mL	100242	03/16/13 09:29	QC	TAL TAL
Total/NA	Analysis	8141A		1			100667	04/01/13 14:31	MLT	TAL TAL
Total/NA	Prep	3550B			00030.49 g	10.0 mL	100242	03/16/13 09:29	QC	TAL TAL
Total/NA	Analysis	8141A		1			100667	04/01/13 14:31	MLT	TAL TAL
Total/NA	Prep	7471A			0.54 g	50 mL	269187	03/13/13 10:48	UU	TAL SAV
Total/NA	Analysis	7471A		1			269837	03/19/13 09:31	BCB	TAL SAV
Total/NA	Prep	3050B			1.15 g	100 mL	269345	03/14/13 10:15	BB	TAL SAV
Total/NA	Analysis	6010B		1			269937	03/19/13 07:40	BCB	TAL SAV
Total/NA	Prep	9012A			1.05 g	50 mL	269173	03/13/13 10:00	DAM	TAL SAV
Total/NA	Analysis	9012A		1			269251	03/13/13 13:58	DAM	TAL SAV
Total/NA	Prep	3060A			1.01 g	100 mL	269364	03/14/13 11:02	BB	TAL SAV
Total/NA	Analysis	7196A		1			269575	03/15/13 12:51	RW	TAL SAV

Client Sample ID: DDSB-2-9-11-20130312-01

Lab Sample ID: 680-88244-3
Date Collected: 03/12/13 11:00
Matrix: Solid
Date Received: 03/12/13 13:03
Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.382 g	5 mL	269445	03/14/13 16:57	FS	TAL SAV
Total/NA	Analysis	8260B		1			270940	03/26/13 15:36	RB	TAL SAV
Total/NA	Prep	3541			15.4406 g	0.5 mL	179951	03/14/13 17:35	DEA	TAL CHI
Total/NA	Analysis	8270C		1			180723	03/22/13 22:59	GES	TAL CHI
Total/NA	Prep	3541			15.2278 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 09:34	GMO	TAL CHI
Total/NA	Prep	3541			15.2278 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8081A		1			180839	03/26/13 08:57	PG	TAL CHI
Total/NA	Prep	3550B			00030.94 g	10.0 mL	100242	03/16/13 09:29	QC	TAL TAL
Total/NA	Analysis	8141A		1			100667	04/01/13 15:01	MLT	TAL TAL

Lab Chronicle

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88244-1
SDG: AGL88244-1

Client Sample ID: DDSB-2-9-11-20130312-01

Date Collected: 03/12/13 11:00
Date Received: 03/12/13 13:03

Lab Sample ID: 680-88244-3

Matrix: Solid
Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			0.51 g	50 mL	269187	03/13/13 10:48	UU	TAL SAV
Total/NA	Analysis	7471A		1			269837	03/19/13 09:33	BCB	TAL SAV
Total/NA	Prep	3050B			1.19 g	100 mL	269345	03/14/13 10:15	BB	TAL SAV
Total/NA	Analysis	6010B		1			269937	03/19/13 07:45	BCB	TAL SAV
Total/NA	Prep	9012A			1.00 g	50 mL	269173	03/13/13 10:00	DAM	TAL SAV
Total/NA	Analysis	9012A		1			269251	03/13/13 14:01	DAM	TAL SAV
Total/NA	Prep	3060A			1.03 g	100 mL	269364	03/14/13 11:02	BB	TAL SAV
Total/NA	Analysis	7196A		1			269575	03/15/13 12:51	RW	TAL SAV

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Don Downing	Lab PM: Gulizia, Lidya	Carrier Tracking No(s):	COC No: 680-46469-20896.1
Client Contact: Mr. James Morrison	Phone:	E-Mail: lidya.gulizia@testamericainc.com		Page: 1 of 1
Company: ERM-Southeast, Inc.		Analysis Requested		Job #:
Address: The Towers at Wildwood Plaza 3200 Windy Hill Road Suite 150	Due Date Requested:			Preservation Codes:
City: Atlanta	TAT Requested (days): Standard			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
State, Zip: GA, 30339				
Phone: 404-816-6168(Tel)	PO #: 176740			Other:
Email: jim.morrison@erm.com	WO #: 176740			
Project Name: Macon MGP Due Dil. REV Soils 03/13	Project #: 68010916			
Site: Macon MGP Due Diligence Soil Event	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - 8260 VOC (FP) - DD (SAV)	6010B / 7471 Metals / 7196A Cr+6 / 9012 CN (SAV)	8141A - 8141 OP PESTS (TAL)	8081A OC PEST/ 8082 PCB / 8270C SVOC (CHI)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				E/F	N	N	N		
TRIPBLANK	3/12/13		G	Solid			3				3	
DDSB-2-0-2-20130312-01	↓	1045	G	Solid			3	1	1	1	6	
DDSB-2-9-11-20130312-01	↓	1100	G	Solid			3	1	1	1	6	
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Donald Downing	3/12/13 1303		[signature]	03/12/13 13:03	TA
2	[signature]	3/12/13 1600	TA	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 3/12/13 1303	Company TA SV

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 680-89244-1 3.8°C

Login Sample Receipt Checklist

Client: ERM-Southeast, Inc.

Job Number: 680-88244-1
SDG Number: AGL88244-1

Login Number: 88244
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ERM-Southeast, Inc.

Job Number: 680-88244-1
SDG Number: AGL88244-1

Login Number: 88244
List Number: 1
Creator: Lunt, Jeff T

List Source: TestAmerica Chicago
List Creation: 03/14/13 10:48 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: ERM-Southeast, Inc.

Job Number: 680-88244-1
SDG Number: AGL88244-1

Login Number: 88244
List Number: 1
Creator: Delp, Eric

List Source: TestAmerica Tallahassee
List Creation: 03/14/13 01:37 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88244-1
SDG: AGL88244-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	05-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	03-31-13
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAP	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13

Certification Summary

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88244-1
SDG: AGL88244-1

Laboratory: TestAmerica Chicago (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAP	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-13
Kentucky (UST)	State Program	4	66	04-11-13
Louisiana	NELAP	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-13
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAP	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13

Laboratory: TestAmerica Tallahassee

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E81005	06-30-13
Georgia	State Program	4		06-30-13
Louisiana	NELAP	6	30663	06-30-13
New Jersey	NELAP	2	FL012	06-30-13
Texas	NELAP	6	T104704459-11-2	03-31-14
USDA	Federal		P330-08-00158	08-05-14

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-88289-2
TestAmerica Sample Delivery Group: AGL88289-2
Client Project/Site: Macon MGP Due Diligence Soil MAR 2013

For:
ERM-Southeast, Inc.
The Towers at Wildwood Plaza
3200 Windy Hill Road
Suite 1500W
Atlanta, Georgia 30339

Attn: Mr. James Morrison

Authorized for release by:
4/2/2013 6:05:07 PM

Lidya Gulizia
Project Manager II
lidya.gulizia@testamericainc.com

Table of Contents

Job ID: 680-88289-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: ERM-Southeast, Inc.

Project: Macon MGP Due Diligence Soil MAR 2013

Report Number: 680-88289-2

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

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

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

RECEIPT

The samples were received on 03/13/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 4.0º C, 4.0º C, 4.1º C, 4.2º C and 4.2º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples DDSB-12-0-2-20130312-01 (680-88289-15), DDSB-12-12-13-20130312-01 (680-88289-16), DDSB-1-0-2-20130312-01 (680-88289-17), DDSB-1-12-13-20130312-01 (680-88289-18), DDSB-11-0-2-20130312-01 (680-88289-19), DDSB-11-12-14-20130312-01 (680-88289-20), DDSB-10-0-2-20130312-01 (680-88289-21), DDSB-10-12-14-20130312-01 (680-88289-22), DDSB-4-0-2-20130313-01 (680-88289-23), DDSB-4-12-14-20130313-01 (680-88289-24), DDSB-3-0-2-20130313-01 (680-88289-25), DDSB-3-12-14-20130313-01 (680-88289-26) and DDSB-5-0-2-20130313-01 (680-88289-27) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were prepared on 03/18/2013 and analyzed on 03/19/2013, 03/20/2013 and 03/22/2013.

Samples TRIP BLANK (680-88289-14), TRIP BLANK (680-88289-28) and TRIP BLANK (680-88289-29) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 03/18/2013.

The method blank for batch 269749 contained 1,2,3 + 1,2,4-trichlorobenzene and n-butylbenzene above the method detection limit (MDL). This target analyte concentration was less than one-half the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 4 analytes to recover outside criteria for this method when a full list spike is utilized.

The LCS/LCSD associated with batch 270151 had up to 2 analytes outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

The LCS associated with batch 270405 had 1 analyte outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

No other difficulties were encountered during the volatiles analyses.

Job ID: 680-88289-2 (Continued)

Laboratory: TestAmerica Savannah (Continued)

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples DDSB-12-0-2-20130312-01 (680-88289-15), DDSB-12-12-13-20130312-01 (680-88289-16), DDSB-1-0-2-20130312-01 (680-88289-17), DDSB-1-12-13-20130312-01 (680-88289-18), DDSB-11-0-2-20130312-01 (680-88289-19), DDSB-11-12-14-20130312-01 (680-88289-20), DDSB-10-0-2-20130312-01 (680-88289-21), DDSB-10-12-14-20130312-01 (680-88289-22), DDSB-4-0-2-20130313-01 (680-88289-23), DDSB-4-12-14-20130313-01 (680-88289-24), DDSB-3-0-2-20130313-01 (680-88289-25), DDSB-3-12-14-20130313-01 (680-88289-26) and DDSB-5-0-2-20130313-01 (680-88289-27) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/15/2013 and analyzed on 03/22/2013, 03/23/2013 and 03/25/2013.

A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 4 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 179992 had 1 analyte {Benzidine at 6%} outside control limits, but within marginal exceedence; therefore, corrective action was not performed. These results have been reported and qualified. DDSB-10-0-2-20130312-01 (680-88289-21), DDSB-10-12-14-20130312-01 (680-88289-22), DDSB-1-0-2-20130312-01 (680-88289-17), DDSB-11-0-2-20130312-01 (680-88289-19), DDSB-11-12-14-20130312-01 (680-88289-20), DDSB-1-12-13-20130312-01 (680-88289-18), DDSB-12-0-2-20130312-01 (680-88289-15), DDSB-12-12-13-20130312-01 (680-88289-16), DDSB-3-0-2-20130313-01 (680-88289-25), DDSB-3-12-14-20130313-01 (680-88289-26), DDSB-4-0-2-20130313-01 (680-88289-23), DDSB-4-12-14-20130313-01 (680-88289-24), DDSB-5-0-2-20130313-01 (680-88289-27)

The reference method specifies +/- 30 second retention time difference between the midpoint in the initial calibration (ICAL) and the continuing calibration verification (CCV). The CCV's and samples run on instrument CMS23 exceeded these criteria: DDSB-10-0-2-20130312-01 (680-88289-21), DDSB-3-0-2-20130313-01 (680-88289-25), DDSB-3-12-14-20130313-01 (680-88289-26), DDSB-4-0-2-20130313-01 (680-88289-23), DDSB-4-12-14-20130313-01 (680-88289-24), DDSB-5-0-2-20130313-01 (680-88289-27). This retention time shift is due to normal and reasonable column maintenance and does affect the instrument's chromatography resolution, sensitivity, or identification of target analytes. System retention times have been updated for proper analyte identification.

The continuing calibration verification (CCV) associated with batch 500-180723/2 recovered above the upper control limit for Di-n-octyl phthalate at 29.9%D. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Sample DDSB-10-0-2-20130312-01 (680-88289-21)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the semivolatiles analyses.

All other quality control parameters were within the acceptance limits.

ORGANOCHLORINE PESTICIDES

Samples DDSB-12-0-2-20130312-01 (680-88289-15), DDSB-12-12-13-20130312-01 (680-88289-16), DDSB-1-0-2-20130312-01 (680-88289-17), DDSB-1-12-13-20130312-01 (680-88289-18), DDSB-11-0-2-20130312-01 (680-88289-19), DDSB-11-12-14-20130312-01 (680-88289-20), DDSB-10-0-2-20130312-01 (680-88289-21), DDSB-10-12-14-20130312-01 (680-88289-22), DDSB-4-0-2-20130313-01 (680-88289-23), DDSB-4-12-14-20130313-01 (680-88289-24), DDSB-3-0-2-20130313-01 (680-88289-25), DDSB-3-12-14-20130313-01 (680-88289-26) and DDSB-5-0-2-20130313-01 (680-88289-27) were analyzed for organochlorine pesticides in accordance with EPA SW-846 Method 8081A. The samples were prepared on 03/15/2013 and analyzed on 03/26/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

The continuing calibration verifications (CCVs) for analytical batch 180839 were low and exceeded control criteria for Chlordane, Toxaphene, and Methoxychlor. This failure most likely occurred due to sample matrix of another sample not associated with this job. The ending CCVs were in control for mentioned analytes and target compounds were not detected in these samples, therefore, sample results were reported.DDSB-1-0-2-20130312-01 (680-88289-17), DDSB-11-0-2-20130312-01 (680-88289-19),

Job ID: 680-88289-2 (Continued)

Laboratory: TestAmerica Savannah (Continued)

DDSB-1-12-13-20130312-01 (680-88289-18), DDSB-12-0-2-20130312-01 (680-88289-15), DDSB-12-12-13-20130312-01 (680-88289-16)

The following samples were diluted due to the abundance of non-target analytes: DDSB-10-0-2-20130312-01 (680-88289-21), DDSB-11-0-2-20130312-01 (680-88289-19), DDSB-12-0-2-20130312-01 (680-88289-15). Elevated reporting limits (RLs) are provided.

TCX or DCB surrogate recovery for the following samples were outside control limits: DDSB-10-0-2-20130312-01 (680-88289-21), DDSB-11-0-2-20130312-01 (680-88289-19), DDSB-1-12-13-20130312-01 (680-88289-18), DDSB-3-12-14-20130313-01 (680-88289-26). Evidence of matrix interference is present; therefore, re-extraction and re-analysis was not performed.

The ending continuing calibration verification (CCV) for analytical batch 180839 on the confirmation column (Rtx-Clp) exceeded control criteria for 4,4'-DDD. No further action taken since primary column was in control and 4,4-DD was just out (15.1%D).DDSB-5-0-2-20130313-01 (680-88289-27)

The grand mean exception, as outlined in EPA Method 8000B, was applied to the continuing calibration verification (CCV) standard associated with batch 180839. This rule states that when one or more compounds in the CCV fail to meet acceptance criteria, the initial calibration (ICAL) may be used for quantitation if the average %D (the grand mean) of all the compounds in the CCV is less than or equal to 15%D. Compounds affected: Heptachlor and Toxaphene (peaks 4 and 5).DDSB-10-0-2-20130312-01 (680-88289-21), DDSB-10-12-14-20130312-01 (680-88289-22), DDSB-11-12-14-20130312-01 (680-88289-20), DDSB-3-0-2-20130313-01 (680-88289-25), DDSB-3-12-14-20130313-01 (680-88289-26), DDSB-4-0-2-20130313-01 (680-88289-23), DDSB-4-12-14-20130313-01 (680-88289-24), DDSB-5-0-2-20130313-01 (680-88289-27)

Samples DDSB-12-0-2-20130312-01 (680-88289-15)[10X], DDSB-11-0-2-20130312-01 (680-88289-19)[10X] and DDSB-10-0-2-20130312-01 (680-88289-21)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the pesticides analyses.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples DDSB-12-0-2-20130312-01 (680-88289-15), DDSB-12-12-13-20130312-01 (680-88289-16), DDSB-1-0-2-20130312-01 (680-88289-17), DDSB-1-12-13-20130312-01 (680-88289-18), DDSB-11-0-2-20130312-01 (680-88289-19), DDSB-11-12-14-20130312-01 (680-88289-20), DDSB-10-0-2-20130312-01 (680-88289-21), DDSB-10-12-14-20130312-01 (680-88289-22), DDSB-4-0-2-20130313-01 (680-88289-23), DDSB-4-12-14-20130313-01 (680-88289-24), DDSB-3-0-2-20130313-01 (680-88289-25), DDSB-3-12-14-20130313-01 (680-88289-26) and DDSB-5-0-2-20130313-01 (680-88289-27) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 03/15/2013 and analyzed on 03/20/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

TCX recovery for the following sample was outside control limits: DDSB-3-12-14-20130313-01 (680-88289-26). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other difficulties were encountered during the PCBs analyses.

All other quality control parameters were within the acceptance limits.

ORGANOPHOSPHORUS PESTICIDES

Samples DDSB-12-0-2-20130312-01 (680-88289-15), DDSB-12-12-13-20130312-01 (680-88289-16), DDSB-1-0-2-20130312-01 (680-88289-17), DDSB-1-12-13-20130312-01 (680-88289-18), DDSB-11-0-2-20130312-01 (680-88289-19), DDSB-11-12-14-20130312-01 (680-88289-20), DDSB-10-0-2-20130312-01 (680-88289-21), DDSB-10-12-14-20130312-01 (680-88289-22), DDSB-4-0-2-20130313-01 (680-88289-23), DDSB-4-12-14-20130313-01 (680-88289-24), DDSB-3-0-2-20130313-01 (680-88289-25), DDSB-3-12-14-20130313-01 (680-88289-26) and DDSB-5-0-2-20130313-01 (680-88289-27) were analyzed for organophosphorus pesticides in accordance with EPA SW-846 Method 8141A. The samples were prepared on 03/16/2013 and analyzed

Job ID: 680-88289-2 (Continued)

Laboratory: TestAmerica Savannah (Continued)

on 04/01/2013 and 04/02/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

The grand mean exception, as outlined in EPA Method 8000B, was applied to the continuing calibration verification (CCV) standard associated with batch 640-100242 and 640-100288. This rule states that when one or more compounds in the CCV fail to meet acceptance criteria, the initial calibration (ICAL) may be used for quantitation if the average %D (the grand mean) of all the compounds in the CCV is less than or equal to 15 %D.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 640-100242 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. sAMPLE 680-88244-B2 was used for the MS/MSD.

No difficulties were encountered during the pesticides analyses.

All quality control parameters were within the acceptance limits.

TOTAL METALS (ICP)

Samples DDSB-12-0-2-20130312-01 (680-88289-15), DDSB-12-12-13-20130312-01 (680-88289-16), DDSB-1-0-2-20130312-01 (680-88289-17), DDSB-1-12-13-20130312-01 (680-88289-18), DDSB-11-0-2-20130312-01 (680-88289-19), DDSB-11-12-14-20130312-01 (680-88289-20), DDSB-10-0-2-20130312-01 (680-88289-21), DDSB-10-12-14-20130312-01 (680-88289-22), DDSB-4-0-2-20130313-01 (680-88289-23), DDSB-4-12-14-20130313-01 (680-88289-24), DDSB-3-0-2-20130313-01 (680-88289-25), DDSB-3-12-14-20130313-01 (680-88289-26) and DDSB-5-0-2-20130313-01 (680-88289-27) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 03/15/2013 and 03/17/2013 and analyzed on 03/18/2013 and 03/19/2013.

The post digestion spike % recovery for zinc associated with batch 680-269660 was outside of control limits.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-269660 were outside control limits for chromium, sodium, antimony, thallium, potassium, and vanadium. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Due to the high concentration of aluminum, barium, calcium, iron, magnesium, manganese, lead, and zinc, the matrix spike / matrix spike duplicate (MS/MSD) for batch 680-269660 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Due to the high concentration of aluminum, barium, calcium, chromium, copper, iron, manganese, lead, vanadium, and zinc, the matrix spike / matrix spike duplicate (MS/MSD) for batch 680-269487 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-269487 were outside control limits for arsenic, magnesium, and antimony. The associated laboratory control sample (LCS) recovery met acceptance criteria.

The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 680-269487 was outside control limits for chromium. Non-homogeneity of the sample matrix is suspected.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples DDSB-12-0-2-20130312-01 (680-88289-15), DDSB-12-12-13-20130312-01 (680-88289-16), DDSB-1-0-2-20130312-01 (680-88289-17), DDSB-1-12-13-20130312-01 (680-88289-18), DDSB-11-0-2-20130312-01 (680-88289-19), DDSB-11-12-14-20130312-01 (680-88289-20), DDSB-10-0-2-20130312-01 (680-88289-21), DDSB-10-12-14-20130312-01 (680-88289-22), DDSB-4-0-2-20130313-01 (680-88289-23), DDSB-4-12-14-20130313-01 (680-88289-24), DDSB-3-0-2-20130313-01 (680-88289-25), DDSB-3-12-14-20130313-01 (680-88289-26) and DDSB-5-0-2-20130313-01 (680-88289-27) were analyzed for total

Job ID: 680-88289-2 (Continued)

Laboratory: TestAmerica Savannah (Continued)

mercury in accordance with EPA SW-846 Method 7471A. The samples were prepared on 03/14/2013 and analyzed on 03/15/2013 and 03/16/2013.

Sample DDSB-11-0-2-20130312-01 (680-88289-19)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM

Samples DDSB-12-0-2-20130312-01 (680-88289-15), DDSB-12-12-13-20130312-01 (680-88289-16), DDSB-1-0-2-20130312-01 (680-88289-17), DDSB-1-12-13-20130312-01 (680-88289-18), DDSB-11-0-2-20130312-01 (680-88289-19), DDSB-11-12-14-20130312-01 (680-88289-20), DDSB-10-0-2-20130312-01 (680-88289-21), DDSB-10-12-14-20130312-01 (680-88289-22), DDSB-4-0-2-20130313-01 (680-88289-23), DDSB-4-12-14-20130313-01 (680-88289-24), DDSB-3-0-2-20130313-01 (680-88289-25), DDSB-3-12-14-20130313-01 (680-88289-26) and DDSB-5-0-2-20130313-01 (680-88289-27) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 3060A/7196A. The samples were prepared on 03/14/2013, 03/15/2013 and 03/18/2013 and analyzed on 03/15/2013, 03/16/2013 and 03/20/2013.

The matrix spike (MS) recovery for batch 269575 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

The matrix spike (MS) recovery for batch 269645 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

To verify the absence of an interference, EPA Method 7196A requires the sample to be diluted until the post digestive spike (PDS) recovery is within 85-115%. For this reason, the following sample(s) was diluted: (680-88273-9 DU), SIA4BT5-08A (0-2') (680-88273-9). Elevated reporting limits (RLs) are provided.

The matrix spike (MS) recoveries for batch 269690 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other difficulties were encountered during the hexavalent chromium analyses.

All other quality control parameters were within the acceptance limits.

TOTAL CYANIDE

Samples DDSB-12-0-2-20130312-01 (680-88289-15), DDSB-12-12-13-20130312-01 (680-88289-16), DDSB-1-0-2-20130312-01 (680-88289-17), DDSB-1-12-13-20130312-01 (680-88289-18), DDSB-11-0-2-20130312-01 (680-88289-19), DDSB-11-12-14-20130312-01 (680-88289-20), DDSB-10-0-2-20130312-01 (680-88289-21), DDSB-10-12-14-20130312-01 (680-88289-22), DDSB-4-0-2-20130313-01 (680-88289-23), DDSB-4-12-14-20130313-01 (680-88289-24), DDSB-3-0-2-20130313-01 (680-88289-25), DDSB-3-12-14-20130313-01 (680-88289-26) and DDSB-5-0-2-20130313-01 (680-88289-27) were analyzed for total and amenable cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared on 03/14/2013 and analyzed on 03/15/2013.

Cyanide, Total exceeded the recovery criteria low for the MSD of sample 680-88289-30 in batch 680-269516.

No other difficulties were encountered during the cyanide analyses.

All other quality control parameters were within the acceptance limits.

Sample Summary

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88289-14	TRIP BLANK	Water	03/13/13 00:00	03/13/13 15:50
680-88289-15	DDSB-12-0-2-20130312-01	Solid	03/12/13 13:10	03/13/13 15:50
680-88289-16	DDSB-12-12-13-20130312-01	Solid	03/12/13 13:30	03/13/13 15:50
680-88289-17	DDSB-1-0-2-20130312-01	Solid	03/12/13 14:15	03/13/13 15:50
680-88289-18	DDSB-1-12-13-20130312-01	Solid	03/12/13 14:30	03/13/13 15:50
680-88289-19	DDSB-11-0-2-20130312-01	Solid	03/12/13 15:00	03/13/13 15:50
680-88289-20	DDSB-11-12-14-20130312-01	Solid	03/12/13 15:15	03/13/13 15:50
680-88289-21	DDSB-10-0-2-20130312-01	Solid	03/12/13 16:00	03/13/13 15:50
680-88289-22	DDSB-10-12-14-20130312-01	Solid	03/12/13 16:15	03/13/13 15:50
680-88289-23	DDSB-4-0-2-20130313-01	Solid	03/13/13 08:30	03/13/13 15:50
680-88289-24	DDSB-4-12-14-20130313-01	Solid	03/13/13 09:00	03/13/13 15:50
680-88289-25	DDSB-3-0-2-20130313-01	Solid	03/13/13 09:30	03/13/13 15:50
680-88289-26	DDSB-3-12-14-20130313-01	Solid	03/13/13 10:00	03/13/13 15:50
680-88289-27	DDSB-5-0-2-20130313-01	Solid	03/13/13 10:30	03/13/13 15:50
680-88289-28	TRIP BLANK	Water	03/13/13 00:00	03/13/13 15:50
680-88289-29	TRIP BLANK	Water	03/13/13 00:00	03/13/13 15:50

Method Summary

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8081A	Organochlorine Pesticides (GC)	SW846	TAL CHI
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
8141A	Organophosphorous Pesticides (GC)	SW846	TAL TAL
6010B	Metals (ICP)	SW846	TAL SAV
7471A	Mercury (CVAA)	SW846	TAL SAV
7196A	Chromium, Hexavalent	SW846	TAL SAV
9012A	Cyanide, Total and/or Amenable	SW846	TAL SAV

Protocol References:

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
*	RPD of the LCS and LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: TRIP BLANK
Date Collected: 03/13/13 00:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-14
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			03/18/13 16:18	1
Benzene	1.0	U	1.0	0.25	ug/L			03/18/13 16:18	1
Bromobenzene	1.0	U	1.0	0.16	ug/L			03/18/13 16:18	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/18/13 16:18	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			03/18/13 16:18	1
Bromoform	1.0	U	1.0	0.50	ug/L			03/18/13 16:18	1
Bromomethane	1.0	U	1.0	0.80	ug/L			03/18/13 16:18	1
2-Butanone	10	U	10	1.0	ug/L			03/18/13 16:18	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			03/18/13 16:18	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			03/18/13 16:18	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			03/18/13 16:18	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			03/18/13 16:18	1
Chloroethane	1.0	U	1.0	1.0	ug/L			03/18/13 16:18	1
Chloroform	1.0	U	1.0	0.14	ug/L			03/18/13 16:18	1
Chloromethane	1.0	U	1.0	0.33	ug/L			03/18/13 16:18	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/L			03/18/13 16:18	1
4-Chlorotoluene	1.0	U	1.0	0.27	ug/L			03/18/13 16:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			03/18/13 16:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			03/18/13 16:18	1
Cyclohexane	1.0	U	1.0	0.25	ug/L			03/18/13 16:18	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			03/18/13 16:18	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			03/18/13 16:18	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			03/18/13 16:18	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			03/18/13 16:18	1
1,3-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			03/18/13 16:18	1
1,4-Dichlorobenzene	1.0	U	1.0	0.28	ug/L			03/18/13 16:18	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			03/18/13 16:18	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			03/18/13 16:18	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			03/18/13 16:18	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			03/18/13 16:18	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			03/18/13 16:18	1
1,3-Dichloropropane	1.0	U	1.0	0.13	ug/L			03/18/13 16:18	1
2,2-Dichloropropane	1.0	U	1.0	0.12	ug/L			03/18/13 16:18	1
1,1-Dichloropropene	1.0	U	1.0	0.25	ug/L			03/18/13 16:18	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/18/13 16:18	1
Hexachlorobutadiene	1.0	U	1.0	0.40	ug/L			03/18/13 16:18	1
2-Hexanone	10	U	10	1.0	ug/L			03/18/13 16:18	1
Isopropylbenzene	1.0	U	1.0	0.10	ug/L			03/18/13 16:18	1
Methyl acetate	1.0	U	1.0	0.19	ug/L			03/18/13 16:18	1
Methylcyclohexane	1.0	U	1.0	0.10	ug/L			03/18/13 16:18	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			03/18/13 16:18	1
4-Methyl-2-pentanone	10	U	10	1.0	ug/L			03/18/13 16:18	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			03/18/13 16:18	1
Naphthalene	5.0	U	5.0	1.0	ug/L			03/18/13 16:18	1
n-Butylbenzene	1.0	U	1.0	0.10	ug/L			03/18/13 16:18	1
N-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/18/13 16:18	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/18/13 16:18	1
sec-Butylbenzene	1.0	U	1.0	0.16	ug/L			03/18/13 16:18	1
Styrene	1.0	U	1.0	0.11	ug/L			03/18/13 16:18	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: TRIP BLANK
Date Collected: 03/13/13 00:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-14
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	1.0	0.12	ug/L			03/18/13 16:18	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			03/18/13 16:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			03/18/13 16:18	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/18/13 16:18	1
Toluene	1.0	U	1.0	0.33	ug/L			03/18/13 16:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			03/18/13 16:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			03/18/13 16:18	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			03/18/13 16:18	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.25	ug/L			03/18/13 16:18	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			03/18/13 16:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			03/18/13 16:18	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			03/18/13 16:18	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			03/18/13 16:18	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			03/18/13 16:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			03/18/13 16:18	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			03/18/13 16:18	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			03/18/13 16:18	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			03/18/13 16:18	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			03/18/13 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*70 - 130*		*03/18/13 16:18*	*1*
Dibromofluoromethane	*102*		*70 - 130*		*03/18/13 16:18*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*03/18/13 16:18*	*1*

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-12-0-2-20130312-01
Date Collected: 03/12/13 13:10
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-15
Matrix: Solid
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.9	U	1.9	0.42	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Benzene	**0.10**	**J**	0.19	0.028	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Bromobenzene	0.19	U	0.19	0.065	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Bromochloromethane	0.19	U	0.19	0.13	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Bromodichloromethane	0.19	U	0.19	0.037	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Bromoform	0.19	U	0.19	0.057	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Bromomethane	0.19	U	0.19	0.057	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
2-Butanone	0.95	U	0.95	0.091	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Carbon disulfide	0.19	U	0.19	0.042	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Carbon tetrachloride	0.19	U	0.19	0.032	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Chlorobenzene	0.19	U	0.19	0.036	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Chlorodibromomethane	0.19	U	0.19	0.065	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Chloroethane	0.19	U	0.19	0.10	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Chloroform	0.19	U	0.19	0.042	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Chloromethane	0.19	U	0.19	0.038	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
2-Chlorotoluene	0.19	U	0.19	0.076	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
4-Chlorotoluene	0.19	U	0.19	0.065	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
cis-1,2-Dichloroethene	0.19	U	0.19	0.053	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
cis-1,3-Dichloropropene	0.19	U	0.19	0.032	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Cyclohexane	**0.34**	**J**	0.38	0.049	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
1,2-Dibromo-3-Chloropropane	0.38	U	0.38	0.17	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
1,2-Dibromoethane	0.19	U	0.19	0.057	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Dibromomethane	0.19	U	0.19	0.065	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
1,2-Dichlorobenzene	0.19	U	0.19	0.049	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
1,3-Dichlorobenzene	0.19	U	0.19	0.061	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
1,4-Dichlorobenzene	0.19	U	0.19	0.028	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Dichlorodifluoromethane	0.19	U	0.19	0.036	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
1,1-Dichloroethane	0.19	U	0.19	0.042	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
1,2-Dichloroethane	0.19	U	0.19	0.042	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
1,1-Dichloroethene	0.19	U	0.19	0.057	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
1,2-Dichloropropane	0.19	U	0.19	0.033	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
2,2-Dichloropropane	0.19	U	0.19	0.042	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
1,3-Dichloropropane	0.19	U	0.19	0.068	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
1,1-Dichloropropene	0.19	U	0.19	0.036	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Ethylbenzene	**0.070**	**J**	0.19	0.049	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Hexachlorobutadiene	0.19	U	0.19	0.12	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
2-Hexanone	0.95	U	0.95	0.13	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Isopropylbenzene	0.19	U	0.19	0.072	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Methyl acetate	0.38	U	0.38	0.19	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Methylcyclohexane	**0.83**		0.38	0.033	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Methylene Chloride	0.19	U	0.19	0.037	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
4-Methyl-2-pentanone	0.95	U	0.95	0.16	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Methyl tert-butyl ether	0.38	U	0.38	0.038	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Naphthalene	**0.46**		0.19	0.046	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
n-Butylbenzene	0.19	U	0.19	0.091	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
N-Propylbenzene	0.19	U	0.19	0.10	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
p-Isopropyltoluene	0.19	U	0.19	0.084	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
sec-Butylbenzene	0.19	U	0.19	0.080	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Styrene	0.19	U	0.19	0.035	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40

Client Sample ID: DDSB-12-0-2-20130312-01
Date Collected: 03/12/13 13:10
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Lab Sample ID: 680-88289-15
Matrix: Solid
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.19	U	0.19	0.068	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
1,1,2,2-Tetrachloroethane	0.19	U	0.19	0.061	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
1,1,1,2-Tetrachloroethane	0.19	U	0.19	0.091	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Tetrachloroethene	0.19	U	0.19	0.072	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Toluene	**0.68**		0.19	0.032	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
trans-1,2-Dichloroethene	0.19	U	0.19	0.024	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
trans-1,3-Dichloropropene	0.19	U	0.19	0.033	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
1,2,4-Trichlorobenzene	0.19	U	0.19	0.034	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
1,2,3-Trichlorobenzene	0.19	U	0.19	0.061	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
1,1,1-Trichloroethane	0.19	U	0.19	0.022	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
1,1,2-Trichloroethane	0.19	U	0.19	0.049	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Trichloroethene	0.19	U	0.19	0.049	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Trichlorofluoromethane	0.19	U	0.19	0.046	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
1,2,3-Trichloropropane	0.19	U	0.19	0.091	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
1,1,2-Trichloro-1,2,2-trifluoroethane	0.19	U	0.19	0.049	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
1,2,4-Trimethylbenzene	**0.20**		0.19	0.053	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
1,3,5-Trimethylbenzene	0.19	U	0.19	0.065	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Vinyl chloride	0.19	U	0.19	0.057	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40
Xylenes, Total	**0.85**		0.38	0.042	mg/Kg	☼	03/18/13 10:38	03/19/13 15:06	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*65 - 130*	*03/18/13 10:38*	*03/19/13 15:06*	*40*
Dibromofluoromethane	*96*		*65 - 130*	*03/18/13 10:38*	*03/19/13 15:06*	*40*
Toluene-d8 (Surr)	*98*		*65 - 130*	*03/18/13 10:38*	*03/19/13 15:06*	*40*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.069**		0.040	0.012	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Acenaphthylene	**0.038**	**J**	0.040	0.0093	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Acetophenone	**0.11**	**J**	0.40	0.073	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
2-Acetylaminofluorene	0.20	U	0.20	0.037	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
alpha,alpha-Dimethyl phenethylamine	1.6	U	1.6	0.48	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
4-Aminobiphenyl	0.20	U	0.20	0.082	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Aniline	0.81	U	0.81	0.36	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Anthracene	**0.16**		0.040	0.0095	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Aramite	0.20	U	0.20	0.040	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Benzenethiol	0.81	U	0.81	0.40	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Benzidine	0.81	U *	0.81	0.40	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Benzo[a]anthracene	**0.63**		0.040	0.0085	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Benzo[a]pyrene	**0.57**		0.040	0.0074	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Benzo[b]fluoranthene	**0.68**		0.040	0.0078	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Benzo[g,h,i]perylene	**0.41**		0.040	0.014	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Benzoic acid	2.0	U	2.0	0.56	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Benzo[k]fluoranthene	**0.35**		0.040	0.0096	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Benzyl alcohol	0.40	U	0.40	0.12	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Bis(2-chloroethoxy)methane	0.20	U	0.20	0.045	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Bis(2-chloroethyl)ether	0.20	U	0.20	0.060	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Bis(2-ethylhexyl) phthalate	0.20	U	0.20	0.053	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
4-Bromophenyl phenyl ether	0.20	U	0.20	0.045	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Butyl benzyl phthalate	0.20	U	0.20	0.051	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1

Client Sample ID: DDSB-12-0-2-20130312-01
Date Collected: 03/12/13 13:10
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-15
Matrix: Solid
Percent Solids: 80.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	0.40	U	0.40	0.093	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
4-Chloroaniline	0.81	U	0.81	0.12	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
4-Chloro-3-methylphenol	0.40	U	0.40	0.19	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
2-Chloronaphthalene	0.20	U	0.20	0.045	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
2-Chlorophenol	0.20	U	0.20	0.058	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
4-Chlorophenyl phenyl ether	0.20	U	0.20	0.064	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Chrysene	**0.63**		0.040	0.0091	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Diallate	0.20	U	0.20	0.040	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Dibenz(a,h)anthracene	**0.12**		0.040	0.011	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Dibenz[a,j]acridine	0.20	U	0.20	0.022	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Dibenzofuran	**0.45**		0.20	0.048	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
1,2-Dichlorobenzene	0.20	U	0.20	0.044	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
1,3-Dichlorobenzene	0.20	U	0.20	0.042	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
1,4-Dichlorobenzene	0.20	U	0.20	0.042	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
3,3'-Dichlorobenzidine	0.20	U	0.20	0.034	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
2,4-Dichlorophenol	0.40	U	0.40	0.12	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
2,6-Dichlorophenol	0.20	U	0.20	0.057	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Diethyl phthalate	0.20	U	0.20	0.067	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Diethylstilbestrol	0.81	U	0.81	0.10	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Dimethoate	0.40	U	0.40	0.091	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
7,12-Dimethylbenz(a)anthracene	0.20	U	0.20	0.049	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
3,3'-Dimethylbenzidine	0.81	U	0.81	0.21	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
2,4-Dimethylphenol	0.40	U	0.40	0.13	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Dimethyl phthalate	0.20	U	0.20	0.050	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Di-n-butyl phthalate	0.20	U	0.20	0.051	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
1,4-Dinitrobenzene	0.20	U	0.20	0.031	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
4,6-Dinitro-2-methylphenol	0.40	U	0.40	0.098	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
2,4-Dinitrophenol	0.81	U	0.81	0.21	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
2,4-Dinitrotoluene	0.20	U	0.20	0.062	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
2,6-Dinitrotoluene	0.20	U	0.20	0.048	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Di-n-octyl phthalate	0.20	U	0.20	0.082	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Dinoseb	0.40	U	0.40	0.10	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
1,4-Dioxane	0.81	U	0.81	0.27	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Diphenylamine	0.20	U	0.20	0.046	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
1,2-Diphenylhydrazine	0.20	U	0.20	0.051	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Disulfoton	0.40	U	0.40	0.061	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Ethyl 4,4'-Dichlorobenzilate	0.20	U	0.20	0.025	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Ethyl methanesulfonate	0.20	U	0.20	0.023	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Ethyl Parathion	0.40	U	0.40	0.11	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Famphur	0.40	U	0.40	0.065	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Fluoranthene	**1.3**		0.040	0.017	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Fluorene	0.040	U	0.040	0.0092	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Hexachlorobenzene	0.081	U	0.081	0.0079	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Hexachlorobutadiene	0.20	U	0.20	0.053	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Hexachlorocyclopentadiene	0.81	U	0.81	0.19	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Hexachloroethane	0.20	U	0.20	0.043	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Hexachlorophene	4.0	U	4.0	1.5	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Hexachloropropene	0.40	U	0.40	0.16	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Indeno[1,2,3-cd]pyrene	**0.34**		0.040	0.014	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1

Client Sample ID: DDSB-12-0-2-20130312-01
Date Collected: 03/12/13 13:10
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-15
Matrix: Solid
Percent Solids: 80.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	0.20	U	0.20	0.045	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Isosafrole	0.20	U	0.20	0.022	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Kepone	0.81	U	0.81	0.40	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Malathion	0.40	U	0.40	0.12	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
m-Dinitrobenzene	0.20	U	0.20	0.038	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Methapyrilene	1.6	U	1.6	0.21	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
3-Methylcholanthrene	0.20	U	0.20	0.017	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Methyl methanesulfonate	0.20	U	0.20	0.033	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
2-Methylnaphthalene	**1.7**		0.20	0.052	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Methyl parathion	0.40	U	0.40	0.11	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
2-Methylphenol	0.20	U	0.20	0.054	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
3 & 4 Methylphenol	0.20	U	0.20	0.076	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Naphthalene	**1.1**		0.040	0.0078	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
1,4-Naphthoquinone	0.81	U	0.81	0.40	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
1-Naphthylamine	0.20	U	0.20	0.031	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
2-Naphthylamine	0.20	U	0.20	0.055	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
2-Nitroaniline	0.20	U	0.20	0.073	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
3-Nitroaniline	0.40	U	0.40	0.078	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
4-Nitroaniline	0.40	U	0.40	0.083	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Nitrobenzene	0.040	U	0.040	0.013	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
5-Nitro-o-toluidine	0.20	U	0.20	0.038	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
2-Nitrophenol	0.40	U	0.40	0.063	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
4-Nitrophenol	0.81	U	0.81	0.22	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
4-Nitroquinoline-1-oxide	0.81	U	0.81	0.38	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
N-Nitrosodiethylamine	0.40	U	0.40	0.12	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
N-Nitrosodimethylamine	0.81	U	0.81	0.44	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
N-Nitrosodi-n-butylamine	0.20	U	0.20	0.072	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
N-Nitrosodi-n-propylamine	0.20	U	0.20	0.051	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
N-Nitrosodiphenylamine	0.20	U	0.20	0.055	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
N-Nitrosomethylethylamine	0.81	U	0.81	0.33	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
N-Nitrosomorpholine	0.20	U	0.20	0.038	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
N-Nitrosopiperidine	0.40	U	0.40	0.037	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
N-Nitrosopyrrolidine	0.20	U	0.20	0.046	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
o,o',o''-Triethylphosphorothioate	0.40	U	0.40	0.062	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
o-Toluidine	0.20	U	0.20	0.039	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
2,2'-oxybis[1-chloropropane]	0.20	U	0.20	0.045	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
p-Dimethylamino azobenzene	0.20	U	0.20	0.022	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Pentachlorobenzene	0.20	U	0.20	0.051	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Pentachloronitrobenzene	0.20	U	0.20	0.029	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Pentachlorophenol	0.81	U	0.81	0.21	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Phenacetin	0.20	U	0.20	0.042	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Phenanthrene	**1.5**		0.040	0.017	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Phenol	0.20	U	0.20	0.064	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Phorate	0.40	U	0.40	0.085	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
2-Picoline	0.40	U	0.40	0.15	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
p-Phenylene diamine	1.6	U	1.6	0.085	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Pronamide	0.20	U	0.20	0.033	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Pyrene	**1.0**		0.040	0.015	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Pyridine	0.81	U	0.81	0.48	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1

Client Sample ID: DDSB-12-0-2-20130312-01
Date Collected: 03/12/13 13:10
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-15
Matrix: Solid
Percent Solids: 80.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole	0.20	U	0.20	0.019	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Sulfotepp	0.40	U	0.40	0.081	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
sym-Trinitrobenzene	0.81	U	0.81	0.41	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
1,2,4,5-Tetrachlorobenzene	0.20	U	0.20	0.048	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
2,3,4,6-Tetrachlorophenol	0.20	U	0.20	0.055	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
Thionazin	0.40	U	0.40	0.090	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
1,2,4-Trichlorobenzene	0.20	U	0.20	0.046	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
2,4,5-Trichlorophenol	0.40	U	0.40	0.12	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1
2,4,6-Trichlorophenol	0.40	U	0.40	0.051	mg/Kg	☼	03/15/13 07:34	03/22/13 23:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*58*		*30 - 119*	*03/15/13 07:34*	*03/22/13 23:18*	*1*
2-Fluorophenol	*52*		*30 - 110*	*03/15/13 07:34*	*03/22/13 23:18*	*1*
Nitrobenzene-d5	*52*		*30 - 115*	*03/15/13 07:34*	*03/22/13 23:18*	*1*
Phenol-d5	*62*		*31 - 110*	*03/15/13 07:34*	*03/22/13 23:18*	*1*
Terphenyl-d14	*66*		*36 - 134*	*03/15/13 07:34*	*03/22/13 23:18*	*1*
2,4,6-Tribromophenol	*75*		*35 - 137*	*03/15/13 07:34*	*03/22/13 23:18*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.021	U	0.021	0.0084	mg/Kg	☼	03/15/13 07:24	03/26/13 09:17	10
alpha-BHC	0.021	U	0.021	0.0052	mg/Kg	☼	03/15/13 07:24	03/26/13 09:17	10
beta-BHC	0.021	U	0.021	0.0063	mg/Kg	☼	03/15/13 07:24	03/26/13 09:17	10
Chlordane (technical)	0.082	U	0.082	0.040	mg/Kg	☼	03/15/13 07:24	03/26/13 09:17	10
4,4'-DDD	0.021	U	0.021	0.0041	mg/Kg	☼	03/15/13 07:24	03/26/13 09:17	10
4,4'-DDE	0.021	U	0.021	0.0034	mg/Kg	☼	03/15/13 07:24	03/26/13 09:17	10
4,4'-DDT	0.021	U	0.021	0.011	mg/Kg	☼	03/15/13 07:24	03/26/13 09:17	10
delta-BHC	0.021	U	0.021	0.0064	mg/Kg	☼	03/15/13 07:24	03/26/13 09:17	10
Dieldrin	0.021	U	0.021	0.0028	mg/Kg	☼	03/15/13 07:24	03/26/13 09:17	10
Endosulfan I	0.021	U	0.021	0.0089	mg/Kg	☼	03/15/13 07:24	03/26/13 09:17	10
Endosulfan II	0.021	U	0.021	0.0033	mg/Kg	☼	03/15/13 07:24	03/26/13 09:17	10
Endosulfan sulfate	0.021	U	0.021	0.0037	mg/Kg	☼	03/15/13 07:24	03/26/13 09:17	10
Endrin	0.021	U	0.021	0.0028	mg/Kg	☼	03/15/13 07:24	03/26/13 09:17	10
Endrin aldehyde	0.021	U	0.021	0.0034	mg/Kg	☼	03/15/13 07:24	03/26/13 09:17	10
Endrin ketone	0.021	U	0.021	0.0046	mg/Kg	☼	03/15/13 07:24	03/26/13 09:17	10
gamma-BHC (Lindane)	0.021	U	0.021	0.0044	mg/Kg	☼	03/15/13 07:24	03/26/13 09:17	10
Heptachlor	0.021	U	0.021	0.0085	mg/Kg	☼	03/15/13 07:24	03/26/13 09:17	10
Heptachlor epoxide	0.021	U	0.021	0.0072	mg/Kg	☼	03/15/13 07:24	03/26/13 09:17	10
Isodrin	0.021	U	0.021	0.0095	mg/Kg	☼	03/15/13 07:24	03/26/13 09:17	10
Methoxychlor	0.10	U	0.10	0.0039	mg/Kg	☼	03/15/13 07:24	03/26/13 09:17	10
Toxaphene	0.20	U	0.20	0.086	mg/Kg	☼	03/15/13 07:24	03/26/13 09:17	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*66*		*56 - 128*	*03/15/13 07:24*	*03/26/13 09:17*	*10*
Tetrachloro-m-xylene	*55*		*45 - 112*	*03/15/13 07:24*	*03/26/13 09:17*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.020	U	0.020	0.0072	mg/Kg	☼	03/15/13 07:24	03/20/13 09:49	1
PCB-1221	0.020	U	0.020	0.0089	mg/Kg	☼	03/15/13 07:24	03/20/13 09:49	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-12-0-2-20130312-01
Date Collected: 03/12/13 13:10
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-15
Matrix: Solid
Percent Solids: 80.9

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	0.020	U	0.020	0.0089	mg/Kg	☼	03/15/13 07:24	03/20/13 09:49	1
PCB-1242	0.020	U	0.020	0.0067	mg/Kg	☼	03/15/13 07:24	03/20/13 09:49	1
PCB-1248	0.020	U	0.020	0.0080	mg/Kg	☼	03/15/13 07:24	03/20/13 09:49	1
PCB-1254	0.020	U	0.020	0.0044	mg/Kg	☼	03/15/13 07:24	03/20/13 09:49	1
PCB-1260	0.020	U	0.020	0.010	mg/Kg	☼	03/15/13 07:24	03/20/13 09:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*50 - 116*	*03/15/13 07:24*	*03/20/13 09:49*	*1*
DCB Decachlorobiphenyl	*92*		*48 - 142*	*03/15/13 07:24*	*03/20/13 09:49*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.081	U	0.081	0.0036	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Azinphos-methyl	0.081	U	0.081	0.019	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Bolstar	0.041	U	0.041	0.0058	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Carbophenthion	0.081	U	0.081	0.0065	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Chlorpyrifos	0.041	U	0.041	0.0084	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Chlorpyrifos-methyl	0.041	U	0.041	0.015	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Coumaphos	0.41	U	0.41	0.027	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Demeton-O	0.10	U	0.10	0.0032	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Demeton-S	0.10	U	0.10	0.0069	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Demeton, Total	0.10	U	0.10	0.0095	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Diazinon	0.041	U	0.041	0.0070	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Dichlofenthion	0.041	U	0.041	0.0052	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Dichlorvos	0.081	U	0.081	0.0079	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Dimethoate	0.081	U	0.081	0.011	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Disulfoton	0.081	U	0.081	0.020	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
EPN	0.041	U	0.041	0.0056	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Ethion	0.021	U	0.021	0.0065	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Ethoprop	0.021	U	0.021	0.0052	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Ethyl Parathion	0.041	U	0.041	0.0068	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Famphur	0.081	U	0.081	0.010	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Fensulfothion	0.41	U	0.41	0.015	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Fenthion	0.041	U	0.041	0.0058	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Malathion	0.041	U	0.041	0.010	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Merphos	0.041	U	0.041	0.014	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Methyl parathion	0.021	U	0.021	0.0067	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Mevinphos	0.081	U	0.081	0.0057	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Monochrotophos	0.41	U	0.41	0.057	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Naled	0.41	U	0.41	0.027	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Phorate	0.041	U	0.041	0.0067	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Ronnel	0.041	U	0.041	0.0052	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Simazine	0.081	U	0.081	0.0039	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Stirophos	0.041	U	0.041	0.0079	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Sulfotepp	0.021	U	0.021	0.011	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Terbufos	0.021	U	0.021	0.020	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Thionazin	0.041	U	0.041	0.012	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Tokuthion	0.041	U	0.041	0.0067	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1
Trichloronate	0.41	U	0.41	0.0094	mg/Kg	☼	03/16/13 09:29	04/01/13 15:15	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-12-0-2-20130312-01
Date Collected: 03/12/13 13:10
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-15
Matrix: Solid
Percent Solids: 80.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate (TPP)	*64*		*35 - 134*	*03/16/13 09:29*	*04/01/13 15:15*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		21	11	mg/Kg	☼	03/15/13 09:28	03/19/13 03:56	1
Antimony	2.1	U	2.1	0.57	mg/Kg	☼	03/15/13 09:28	03/19/13 03:56	1
Arsenic	**6.0**		2.1	0.63	mg/Kg	☼	03/15/13 09:28	03/19/13 03:56	1
Barium	**110**		1.1	0.32	mg/Kg	☼	03/15/13 09:28	03/19/13 03:56	1
Beryllium	**0.55**		0.43	0.021	mg/Kg	☼	03/15/13 09:28	03/19/13 03:56	1
Cadmium	0.54	U	0.54	0.11	mg/Kg	☼	03/15/13 09:28	03/19/13 03:56	1
Calcium	**3900**		54	21	mg/Kg	☼	03/15/13 09:28	03/19/13 03:56	1
Chromium	**31**		1.1	0.54	mg/Kg	☼	03/15/13 09:28	03/19/13 03:56	1
Cobalt	**49**		1.1	0.13	mg/Kg	☼	03/15/13 09:28	03/19/13 03:56	1
Copper	**22**		2.7	1.2	mg/Kg	☼	03/15/13 09:28	03/19/13 03:56	1
Iron	**29000**		21	7.5	mg/Kg	☼	03/15/13 09:28	03/19/13 03:56	1
Lead	**59**		1.1	0.57	mg/Kg	☼	03/15/13 09:28	03/19/13 03:56	1
Magnesium	**380**		54	2.6	mg/Kg	☼	03/15/13 09:28	03/19/13 03:56	1
Manganese	**860**		1.1	0.32	mg/Kg	☼	03/15/13 09:28	03/19/13 03:56	1
Nickel	**7.4**		4.3	0.33	mg/Kg	☼	03/15/13 09:28	03/19/13 03:56	1
Potassium	**600**		110	8.6	mg/Kg	☼	03/15/13 09:28	03/19/13 03:56	1
Selenium	2.7	U	2.7	1.1	mg/Kg	☼	03/15/13 09:28	03/19/13 03:56	1
Silver	1.1	U	1.1	0.10	mg/Kg	☼	03/15/13 09:28	03/19/13 03:56	1
Sodium	210	U	210	88	mg/Kg	☼	03/15/13 09:28	03/19/13 03:56	1
Thallium	**2.3**	**J**	2.7	1.1	mg/Kg	☼	03/15/13 09:28	03/19/13 03:56	1
Vanadium	**51**		1.1	0.26	mg/Kg	☼	03/15/13 09:28	03/19/13 03:56	1
Zinc	**60**		2.1	1.3	mg/Kg	☼	03/15/13 09:28	03/19/13 03:56	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.20**		0.022	0.0092	mg/Kg	☼	03/14/13 10:22	03/15/13 19:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	1.1	U	1.1	0.34	mg/Kg	☼	03/14/13 11:02	03/15/13 12:51	1
Cyanide, Total	0.62	U	0.62	0.26	mg/Kg	☼	03/14/13 08:30	03/15/13 09:47	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-12-12-13-20130312-01
Date Collected: 03/12/13 13:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-16
Matrix: Solid
Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5.9**		2.3	0.50	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Benzene	**0.064**	**J**	0.23	0.033	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Bromobenzene	0.23	U	0.23	0.077	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Bromochloromethane	0.23	U	0.23	0.15	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Bromodichloromethane	0.23	U	0.23	0.044	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Bromoform	0.23	U	0.23	0.068	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Bromomethane	0.23	U	0.23	0.068	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
2-Butanone	**0.39**	**J**	1.1	0.11	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Carbon disulfide	0.23	U	0.23	0.050	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Carbon tetrachloride	0.23	U	0.23	0.037	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Chlorobenzene	0.23	U	0.23	0.043	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Chlorodibromomethane	0.23	U	0.23	0.077	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Chloroethane	0.23	U	0.23	0.12	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Chloroform	0.23	U	0.23	0.050	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Chloromethane	0.23	U	0.23	0.045	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
2-Chlorotoluene	0.23	U	0.23	0.090	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
4-Chlorotoluene	0.23	U	0.23	0.077	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
cis-1,2-Dichloroethene	0.23	U	0.23	0.063	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
cis-1,3-Dichloropropene	0.23	U	0.23	0.037	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Cyclohexane	**0.096**	**J**	0.45	0.059	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
1,2-Dibromo-3-Chloropropane	0.45	U	0.45	0.20	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
1,2-Dibromoethane	0.23	U	0.23	0.068	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Dibromomethane	0.23	U	0.23	0.077	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
1,2-Dichlorobenzene	0.23	U	0.23	0.059	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
1,3-Dichlorobenzene	0.23	U	0.23	0.072	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
1,4-Dichlorobenzene	0.23	U	0.23	0.033	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Dichlorodifluoromethane	0.23	U	0.23	0.042	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
1,1-Dichloroethane	0.23	U	0.23	0.050	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
1,2-Dichloroethane	0.23	U	0.23	0.050	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
1,1-Dichloroethene	0.23	U	0.23	0.068	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
1,2-Dichloropropane	0.23	U	0.23	0.039	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
2,2-Dichloropropane	0.23	U	0.23	0.050	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
1,3-Dichloropropane	0.23	U	0.23	0.081	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
1,1-Dichloropropene	0.23	U	0.23	0.043	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Ethylbenzene	**0.10**	**J**	0.23	0.059	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Hexachlorobutadiene	0.23	U	0.23	0.14	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
2-Hexanone	1.1	U	1.1	0.15	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Isopropylbenzene	0.23	U	0.23	0.086	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Methyl acetate	0.45	U	0.45	0.23	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Methylcyclohexane	**0.31**	**J**	0.45	0.039	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Methylene Chloride	0.23	U	0.23	0.044	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
4-Methyl-2-pentanone	1.1	U	1.1	0.19	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Methyl tert-butyl ether	0.45	U	0.45	0.045	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Naphthalene	**0.52**		0.23	0.054	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
n-Butylbenzene	0.23	U	0.23	0.11	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
N-Propylbenzene	0.23	U	0.23	0.12	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
p-Isopropyltoluene	0.23	U	0.23	0.099	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
sec-Butylbenzene	0.23	U	0.23	0.095	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Styrene	0.23	U	0.23	0.042	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40

Client Sample ID: DDSB-12-12-13-20130312-01
Date Collected: 03/12/13 13:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-16
Matrix: Solid
Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.23	U	0.23	0.081	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
1,1,2,2-Tetrachloroethane	0.23	U	0.23	0.072	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
1,1,1,2-Tetrachloroethane	0.23	U	0.23	0.11	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Tetrachloroethene	0.23	U	0.23	0.086	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Toluene	**2.1**		0.23	0.038	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
trans-1,2-Dichloroethene	0.23	U	0.23	0.028	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
trans-1,3-Dichloropropene	0.23	U	0.23	0.039	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
1,2,4-Trichlorobenzene	0.23	U	0.23	0.040	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
1,2,3-Trichlorobenzene	0.23	U	0.23	0.072	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
1,1,1-Trichloroethane	0.23	U	0.23	0.027	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
1,1,2-Trichloroethane	0.23	U	0.23	0.059	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Trichloroethene	0.23	U	0.23	0.059	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Trichlorofluoromethane	0.23	U	0.23	0.054	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
1,2,3-Trichloropropane	0.23	U	0.23	0.11	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	0.23	0.059	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
1,2,4-Trimethylbenzene	**0.18**	**J**	0.23	0.063	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
1,3,5-Trimethylbenzene	0.23	U	0.23	0.077	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Vinyl chloride	0.23	U	0.23	0.068	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40
Xylenes, Total	**1.1**		0.45	0.050	mg/Kg	☼	03/18/13 10:38	03/19/13 15:28	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*65 - 130*	*03/18/13 10:38*	*03/19/13 15:28*	*40*
Dibromofluoromethane	*98*		*65 - 130*	*03/18/13 10:38*	*03/19/13 15:28*	*40*
Toluene-d8 (Surr)	*99*		*65 - 130*	*03/18/13 10:38*	*03/19/13 15:28*	*40*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.037	U	0.037	0.011	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Acenaphthylene	0.037	U	0.037	0.0087	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Acetophenone	0.37	U	0.37	0.068	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
2-Acetylaminofluorene	0.19	U	0.19	0.035	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
alpha,alpha-Dimethyl phenethylamine	1.5	U	1.5	0.45	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
4-Aminobiphenyl	0.19	U	0.19	0.076	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Aniline	0.76	U	0.76	0.34	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Anthracene	0.037	U	0.037	0.0089	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Aramite	0.19	U	0.19	0.037	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Benzenethiol	0.76	U	0.76	0.37	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Benzidine	0.76	U *	0.76	0.37	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Benzo[a]anthracene	0.037	U	0.037	0.0079	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Benzo[a]pyrene	0.037	U	0.037	0.0069	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Benzo[b]fluoranthene	0.037	U	0.037	0.0073	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Benzo[g,h,i]perylene	0.037	U	0.037	0.013	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Benzoic acid	1.9	U	1.9	0.52	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Benzo[k]fluoranthene	0.037	U	0.037	0.0090	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Benzyl alcohol	0.37	U	0.37	0.11	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Bis(2-chloroethoxy)methane	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Bis(2-chloroethyl)ether	0.19	U	0.19	0.056	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Bis(2-ethylhexyl) phthalate	0.19	U	0.19	0.050	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
4-Bromophenyl phenyl ether	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Butyl benzyl phthalate	0.19	U	0.19	0.047	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-12-12-13-20130312-01
Date Collected: 03/12/13 13:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-16
Matrix: Solid
Percent Solids: 85.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	0.37	U	0.37	0.087	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
4-Chloroaniline	0.76	U	0.76	0.11	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
4-Chloro-3-methylphenol	0.37	U	0.37	0.18	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
2-Chloronaphthalene	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
2-Chlorophenol	0.19	U	0.19	0.054	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
4-Chlorophenyl phenyl ether	0.19	U	0.19	0.059	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Chrysene	0.037	U	0.037	0.0085	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Diallate	0.19	U	0.19	0.038	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Dibenz(a,h)anthracene	0.037	U	0.037	0.011	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Dibenz[a,j]acridine	0.19	U	0.19	0.021	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Dibenzofuran	0.19	U	0.19	0.045	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
1,2-Dichlorobenzene	0.19	U	0.19	0.041	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
1,3-Dichlorobenzene	0.19	U	0.19	0.040	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
1,4-Dichlorobenzene	0.19	U	0.19	0.040	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
3,3'-Dichlorobenzidine	0.19	U	0.19	0.031	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
2,4-Dichlorophenol	0.37	U	0.37	0.11	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
2,6-Dichlorophenol	0.19	U	0.19	0.054	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Diethyl phthalate	0.19	U	0.19	0.063	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Diethylstilbestrol	0.76	U	0.76	0.094	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Dimethoate	0.37	U	0.37	0.085	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
7,12-Dimethylbenz(a)anthracene	0.19	U	0.19	0.046	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
3,3'-Dimethylbenzidine	0.76	U	0.76	0.20	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
2,4-Dimethylphenol	0.37	U	0.37	0.12	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Dimethyl phthalate	0.19	U	0.19	0.047	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Di-n-butyl phthalate	0.19	U	0.19	0.048	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
1,4-Dinitrobenzene	0.19	U	0.19	0.029	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
4,6-Dinitro-2-methylphenol	0.37	U	0.37	0.092	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
2,4-Dinitrophenol	0.76	U	0.76	0.19	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
2,4-Dinitrotoluene	0.19	U	0.19	0.058	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
2,6-Dinitrotoluene	0.19	U	0.19	0.045	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Di-n-octyl phthalate	0.19	U	0.19	0.077	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Dinoseb	0.37	U	0.37	0.097	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
1,4-Dioxane	0.76	U	0.76	0.26	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Diphenylamine	0.19	U	0.19	0.043	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
1,2-Diphenylhydrazine	0.19	U	0.19	0.048	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Disulfoton	0.37	U	0.37	0.057	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Ethyl 4,4'-Dichlorobenzilate	0.19	U	0.19	0.024	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Ethyl methanesulfonate	0.19	U	0.19	0.021	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Ethyl Parathion	0.37	U	0.37	0.11	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Famphur	0.37	U	0.37	0.061	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Fluoranthene	0.037	U	0.037	0.015	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Fluorene	0.037	U	0.037	0.0086	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Hexachlorobenzene	0.076	U	0.076	0.0074	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Hexachlorobutadiene	0.19	U	0.19	0.049	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Hexachlorocyclopentadiene	0.76	U	0.76	0.17	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Hexachloroethane	0.19	U	0.19	0.040	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Hexachlorophene	3.7	U	3.7	1.4	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Hexachloropropene	0.37	U	0.37	0.15	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Indeno[1,2,3-cd]pyrene	0.037	U	0.037	0.013	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-12-12-13-20130312-01
Date Collected: 03/12/13 13:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-16
Matrix: Solid
Percent Solids: 85.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Isosafrole	0.19	U	0.19	0.020	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Kepone	0.76	U	0.76	0.37	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Malathion	0.37	U	0.37	0.11	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
m-Dinitrobenzene	0.19	U	0.19	0.036	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Methapyrilene	1.5	U	1.5	0.20	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
3-Methylcholanthrene	0.19	U	0.19	0.016	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Methyl methanesulfonate	0.19	U	0.19	0.031	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
2-Methylnaphthalene	0.19	U	0.19	0.049	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Methyl parathion	0.37	U	0.37	0.11	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
2-Methylphenol	0.19	U	0.19	0.050	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
3 & 4 Methylphenol	0.19	U	0.19	0.071	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Naphthalene	0.037	U	0.037	0.0073	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
1,4-Naphthoquinone	0.76	U	0.76	0.37	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
1-Naphthylamine	0.19	U	0.19	0.029	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
2-Naphthylamine	0.19	U	0.19	0.051	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
2-Nitroaniline	0.19	U	0.19	0.068	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
3-Nitroaniline	0.37	U	0.37	0.073	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
4-Nitroaniline	0.37	U	0.37	0.077	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Nitrobenzene	0.037	U	0.037	0.012	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
5-Nitro-o-toluidine	0.19	U	0.19	0.036	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
2-Nitrophenol	0.37	U	0.37	0.059	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
4-Nitrophenol	0.76	U	0.76	0.20	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
4-Nitroquinoline-1-oxide	0.76	U	0.76	0.36	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
N-Nitrosodiethylamine	0.37	U	0.37	0.11	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
N-Nitrosodimethylamine	0.76	U	0.76	0.41	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
N-Nitrosodi-n-butylamine	0.19	U	0.19	0.068	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
N-Nitrosodi-n-propylamine	0.19	U	0.19	0.048	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
N-Nitrosodiphenylamine	0.19	U	0.19	0.051	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
N-Nitrosomethylethylamine	0.76	U	0.76	0.31	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
N-Nitrosomorpholine	0.19	U	0.19	0.035	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
N-Nitrosopiperidine	0.37	U	0.37	0.035	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
N-Nitrosopyrrolidine	0.19	U	0.19	0.043	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
o,o',o''-Triethylphosphorothioate	0.37	U	0.37	0.058	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
o-Toluidine	0.19	U	0.19	0.037	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
2,2'-oxybis[1-chloropropane]	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
p-Dimethylamino azobenzene	0.19	U	0.19	0.020	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Pentachlorobenzene	0.19	U	0.19	0.048	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Pentachloronitrobenzene	0.19	U	0.19	0.027	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Pentachlorophenol	0.76	U	0.76	0.19	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Phenacetin	0.19	U	0.19	0.039	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Phenanthrene	0.037	U	0.037	0.016	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Phenol	0.19	U	0.19	0.060	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Phorate	0.37	U	0.37	0.080	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
2-Picoline	0.37	U	0.37	0.14	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
p-Phenylene diamine	1.5	U	1.5	0.080	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Pronamide	0.19	U	0.19	0.031	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Pyrene	0.037	U	0.037	0.014	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Pyridine	0.76	U	0.76	0.45	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1

Client Sample ID: DDSB-12-12-13-20130312-01
Date Collected: 03/12/13 13:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-16
Matrix: Solid
Percent Solids: 85.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole	0.19	U	0.19	0.018	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Sulfotepp	0.37	U	0.37	0.075	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
sym-Trinitrobenzene	0.76	U	0.76	0.39	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
1,2,4,5-Tetrachlorobenzene	0.19	U	0.19	0.044	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
2,3,4,6-Tetrachlorophenol	0.19	U	0.19	0.052	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
Thionazin	0.37	U	0.37	0.084	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
1,2,4-Trichlorobenzene	0.19	U	0.19	0.043	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
2,4,5-Trichlorophenol	0.37	U	0.37	0.11	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1
2,4,6-Trichlorophenol	0.37	U	0.37	0.047	mg/Kg	☼	03/15/13 07:34	03/22/13 23:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*47*		*30 - 119*	*03/15/13 07:34*	*03/22/13 23:36*	*1*
2-Fluorophenol	*50*		*30 - 110*	*03/15/13 07:34*	*03/22/13 23:36*	*1*
Nitrobenzene-d5	*48*		*30 - 115*	*03/15/13 07:34*	*03/22/13 23:36*	*1*
Phenol-d5	*49*		*31 - 110*	*03/15/13 07:34*	*03/22/13 23:36*	*1*
Terphenyl-d14	*60*		*36 - 134*	*03/15/13 07:34*	*03/22/13 23:36*	*1*
2,4,6-Tribromophenol	*59*		*35 - 137*	*03/15/13 07:34*	*03/22/13 23:36*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0019	U	0.0019	0.00079	mg/Kg	☼	03/15/13 07:24	03/26/13 09:38	1
alpha-BHC	0.0019	U	0.0019	0.00048	mg/Kg	☼	03/15/13 07:24	03/26/13 09:38	1
beta-BHC	0.0019	U	0.0019	0.00059	mg/Kg	☼	03/15/13 07:24	03/26/13 09:38	1
Chlordane (technical)	0.0076	U	0.0076	0.0037	mg/Kg	☼	03/15/13 07:24	03/26/13 09:38	1
4,4'-DDD	0.0019	U	0.0019	0.00038	mg/Kg	☼	03/15/13 07:24	03/26/13 09:38	1
4,4'-DDE	0.0019	U	0.0019	0.00032	mg/Kg	☼	03/15/13 07:24	03/26/13 09:38	1
4,4'-DDT	0.0019	U	0.0019	0.0010	mg/Kg	☼	03/15/13 07:24	03/26/13 09:38	1
delta-BHC	0.0019	U	0.0019	0.00060	mg/Kg	☼	03/15/13 07:24	03/26/13 09:38	1
Dieldrin	0.0019	U	0.0019	0.00026	mg/Kg	☼	03/15/13 07:24	03/26/13 09:38	1
Endosulfan I	0.0019	U	0.0019	0.00083	mg/Kg	☼	03/15/13 07:24	03/26/13 09:38	1
Endosulfan II	0.0019	U	0.0019	0.00031	mg/Kg	☼	03/15/13 07:24	03/26/13 09:38	1
Endosulfan sulfate	0.0019	U	0.0019	0.00035	mg/Kg	☼	03/15/13 07:24	03/26/13 09:38	1
Endrin	0.0019	U	0.0019	0.00026	mg/Kg	☼	03/15/13 07:24	03/26/13 09:38	1
Endrin aldehyde	0.0019	U	0.0019	0.00032	mg/Kg	☼	03/15/13 07:24	03/26/13 09:38	1
Endrin ketone	0.0019	U	0.0019	0.00043	mg/Kg	☼	03/15/13 07:24	03/26/13 09:38	1
gamma-BHC (Lindane)	0.0019	U	0.0019	0.00041	mg/Kg	☼	03/15/13 07:24	03/26/13 09:38	1
Heptachlor	0.0019	U	0.0019	0.00080	mg/Kg	☼	03/15/13 07:24	03/26/13 09:38	1
Heptachlor epoxide	0.0019	U	0.0019	0.00068	mg/Kg	☼	03/15/13 07:24	03/26/13 09:38	1
Isodrin	0.0019	U	0.0019	0.00088	mg/Kg	☼	03/15/13 07:24	03/26/13 09:38	1
Methoxychlor	0.0094	U	0.0094	0.00037	mg/Kg	☼	03/15/13 07:24	03/26/13 09:38	1
Toxaphene	0.019	U	0.019	0.0080	mg/Kg	☼	03/15/13 07:24	03/26/13 09:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*56 - 128*	*03/15/13 07:24*	*03/26/13 09:38*	*1*
Tetrachloro-m-xylene	*54*		*45 - 112*	*03/15/13 07:24*	*03/26/13 09:38*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.019	U	0.019	0.0067	mg/Kg	☼	03/15/13 07:24	03/20/13 10:03	1
PCB-1221	0.019	U	0.019	0.0084	mg/Kg	☼	03/15/13 07:24	03/20/13 10:03	1

Client Sample ID: DDSB-12-12-13-20130312-01
Date Collected: 03/12/13 13:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-16
Matrix: Solid
Percent Solids: 85.3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	0.019	U	0.019	0.0083	mg/Kg	☼	03/15/13 07:24	03/20/13 10:03	1
PCB-1242	0.019	U	0.019	0.0062	mg/Kg	☼	03/15/13 07:24	03/20/13 10:03	1
PCB-1248	0.019	U	0.019	0.0075	mg/Kg	☼	03/15/13 07:24	03/20/13 10:03	1
PCB-1254	0.019	U	0.019	0.0041	mg/Kg	☼	03/15/13 07:24	03/20/13 10:03	1
PCB-1260	0.019	U	0.019	0.0093	mg/Kg	☼	03/15/13 07:24	03/20/13 10:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*50 - 116*	*03/15/13 07:24*	*03/20/13 10:03*	*1*
DCB Decachlorobiphenyl	*103*		*48 - 142*	*03/15/13 07:24*	*03/20/13 10:03*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.077	U	0.077	0.0034	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Azinphos-methyl	0.077	U	0.077	0.018	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Bolstar	0.039	U	0.039	0.0055	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Carbophenthion	0.077	U	0.077	0.0062	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Chlorpyrifos	0.039	U	0.039	0.0079	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Chlorpyrifos-methyl	0.039	U	0.039	0.014	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Coumaphos	0.39	U	0.39	0.026	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Demeton-O	0.097	U	0.097	0.0030	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Demeton-S	0.097	U	0.097	0.0065	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Demeton, Total	0.097	U	0.097	0.0090	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Diazinon	0.039	U	0.039	0.0067	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Dichlofenthion	0.039	U	0.039	0.0049	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Dichlorvos	0.077	U	0.077	0.0075	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Dimethoate	0.077	U	0.077	0.010	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Disulfoton	0.077	U	0.077	0.019	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
EPN	0.039	U	0.039	0.0053	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Ethion	0.020	U	0.020	0.0062	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Ethoprop	0.020	U	0.020	0.0049	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Ethyl Parathion	0.039	U	0.039	0.0064	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Famphur	0.077	U	0.077	0.0097	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Fensulfothion	0.39	U	0.39	0.014	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Fenthion	0.039	U	0.039	0.0055	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Malathion	0.039	U	0.039	0.0096	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Merphos	0.039	U	0.039	0.013	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Methyl parathion	0.020	U	0.020	0.0063	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Mevinphos	0.077	U	0.077	0.0054	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Monochrotophos	**0.055**	**J**	0.39	0.054	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Naled	0.39	U	0.39	0.026	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Phorate	0.039	U	0.039	0.0063	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Ronnel	0.039	U	0.039	0.0049	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Simazine	0.077	U	0.077	0.0037	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Stirophos	0.039	U	0.039	0.0075	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Sulfotepp	0.020	U	0.020	0.010	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Terbufos	0.020	U	0.020	0.019	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Thionazin	0.039	U	0.039	0.012	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Tokuthion	0.039	U	0.039	0.0063	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1
Trichloronate	0.39	U	0.39	0.0089	mg/Kg	☼	03/16/13 09:29	04/02/13 08:51	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-12-12-13-20130312-01
Date Collected: 03/12/13 13:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-16
Matrix: Solid
Percent Solids: 85.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate (TPP)	*60*		*35 - 134*	*03/16/13 09:29*	*04/02/13 08:51*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		22	11	mg/Kg	☼	03/15/13 09:28	03/19/13 04:12	1
Antimony	2.2	U	2.2	0.58	mg/Kg	☼	03/15/13 09:28	03/19/13 04:12	1
Arsenic	**1.8**	**J**	2.2	0.65	mg/Kg	☼	03/15/13 09:28	03/19/13 04:12	1
Barium	**18**		1.1	0.33	mg/Kg	☼	03/15/13 09:28	03/19/13 04:12	1
Beryllium	**0.26**	**J**	0.44	0.022	mg/Kg	☼	03/15/13 09:28	03/19/13 04:12	1
Cadmium	0.55	U	0.55	0.11	mg/Kg	☼	03/15/13 09:28	03/19/13 04:12	1
Calcium	**330**		55	22	mg/Kg	☼	03/15/13 09:28	03/19/13 04:12	1
Chromium	**6.3**		1.1	0.55	mg/Kg	☼	03/15/13 09:28	03/19/13 04:12	1
Cobalt	**4.4**		1.1	0.13	mg/Kg	☼	03/15/13 09:28	03/19/13 04:12	1
Copper	**6.5**		2.7	1.2	mg/Kg	☼	03/15/13 09:28	03/19/13 04:12	1
Iron	**9100**		22	7.7	mg/Kg	☼	03/15/13 09:28	03/19/13 04:12	1
Lead	**4.9**		1.1	0.58	mg/Kg	☼	03/15/13 09:28	03/19/13 04:12	1
Magnesium	**300**		55	2.6	mg/Kg	☼	03/15/13 09:28	03/19/13 04:12	1
Manganese	**280**		1.1	0.33	mg/Kg	☼	03/15/13 09:28	03/19/13 04:12	1
Nickel	**2.9**	**J**	4.4	0.34	mg/Kg	☼	03/15/13 09:28	03/19/13 04:12	1
Potassium	**370**		110	8.8	mg/Kg	☼	03/15/13 09:28	03/19/13 04:12	1
Selenium	2.7	U	2.7	1.1	mg/Kg	☼	03/15/13 09:28	03/19/13 04:12	1
Silver	1.1	U	1.1	0.11	mg/Kg	☼	03/15/13 09:28	03/19/13 04:12	1
Sodium	220	U	220	90	mg/Kg	☼	03/15/13 09:28	03/19/13 04:12	1
Thallium	2.7	U	2.7	1.1	mg/Kg	☼	03/15/13 09:28	03/19/13 04:12	1
Vanadium	**21**		1.1	0.26	mg/Kg	☼	03/15/13 09:28	03/19/13 04:12	1
Zinc	**12**		2.2	1.3	mg/Kg	☼	03/15/13 09:28	03/19/13 04:12	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.061**		0.020	0.0081	mg/Kg	☼	03/14/13 10:22	03/15/13 19:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	1.0	U	1.0	0.31	mg/Kg	☼	03/14/13 11:02	03/15/13 12:51	1
Cyanide, Total	0.57	U	0.57	0.24	mg/Kg	☼	03/14/13 08:30	03/15/13 09:48	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-1-0-2-20130312-01
Date Collected: 03/12/13 14:15
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-17
Matrix: Solid
Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.34	*	0.046	0.010	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Benzene	0.0046	U	0.0046	0.00068	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Bromobenzene	0.0046	U	0.0046	0.0016	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Bromochloromethane	0.0046	U	0.0046	0.0031	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Bromodichloromethane	0.0046	U	0.0046	0.00090	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Bromoform	0.0046	U	0.0046	0.0014	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Bromomethane	0.0046	U	0.0046	0.0014	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
2-Butanone	0.028		0.023	0.0022	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Carbon disulfide	0.0046	U	0.0046	0.0010	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Carbon tetrachloride	0.0046	U	0.0046	0.00077	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Chlorobenzene	0.0046	U	0.0046	0.00089	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Chlorodibromomethane	0.0046	U	0.0046	0.0016	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Chloroethane	0.0046	U	0.0046	0.0025	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Chloroform	0.0046	U	0.0046	0.0010	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Chloromethane	0.0046	U	0.0046	0.00093	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
2-Chlorotoluene	0.0046	U	0.0046	0.0019	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
4-Chlorotoluene	0.0046	U	0.0046	0.0016	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
cis-1,2-Dichloroethene	0.0046	U	0.0046	0.0013	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
cis-1,3-Dichloropropene	0.0046	U	0.0046	0.00077	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Cyclohexane	0.0093	U	0.0093	0.0012	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
1,2-Dibromo-3-Chloropropane	0.0093	U	0.0093	0.0041	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
1,2-Dibromoethane	0.0046	U	0.0046	0.0014	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Dibromomethane	0.0046	U	0.0046	0.0016	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
1,2-Dichlorobenzene	0.0046	U	0.0046	0.0012	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
1,3-Dichlorobenzene	0.0046	U	0.0046	0.0015	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
1,4-Dichlorobenzene	0.0046	U	0.0046	0.00069	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Dichlorodifluoromethane	0.0046	U	0.0046	0.00087	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
1,1-Dichloroethane	0.0046	U	0.0046	0.0010	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
1,2-Dichloroethane	0.0046	U	0.0046	0.0010	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
1,1-Dichloroethene	0.0046	U	0.0046	0.0014	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
1,2-Dichloropropane	0.0046	U	0.0046	0.00080	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
2,2-Dichloropropane	0.0046	U	0.0046	0.0010	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
1,3-Dichloropropane	0.0046	U	0.0046	0.0017	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
1,1-Dichloropropene	0.0046	U	0.0046	0.00088	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Ethylbenzene	0.0046	U	0.0046	0.0012	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Hexachlorobutadiene	0.0046	U	0.0046	0.0029	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
2-Hexanone	0.023	U *	0.023	0.0031	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Isopropylbenzene	0.0046	U	0.0046	0.0018	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Methyl acetate	0.0093	U	0.0093	0.0046	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Methylcyclohexane	0.0093	U	0.0093	0.00080	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Methylene Chloride	0.0046	U	0.0046	0.00091	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
4-Methyl-2-pentanone	0.023	U	0.023	0.0039	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Methyl tert-butyl ether	0.0093	U	0.0093	0.00093	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Naphthalene	0.0046	U	0.0046	0.0011	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
n-Butylbenzene	0.0046	U	0.0046	0.0022	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
N-Propylbenzene	0.0046	U	0.0046	0.0025	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
p-Isopropyltoluene	0.0046	U	0.0046	0.0020	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
sec-Butylbenzene	0.0046	U	0.0046	0.0019	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Styrene	0.0046	U	0.0046	0.00086	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1

Client Sample ID: DDSB-1-0-2-20130312-01
Date Collected: 03/12/13 14:15
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-17
Matrix: Solid
Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.0046	U	0.0046	0.0017	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
1,1,2,2-Tetrachloroethane	0.0046	U	0.0046	0.0015	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
1,1,1,2-Tetrachloroethane	0.0046	U	0.0046	0.0022	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Tetrachloroethene	0.0046	U	0.0046	0.0018	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Toluene	**0.00080**	**J**	0.0046	0.00078	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
trans-1,2-Dichloroethene	0.0046	U	0.0046	0.00058	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
trans-1,3-Dichloropropene	0.0046	U	0.0046	0.00081	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
1,2,4-Trichlorobenzene	0.0046	U	0.0046	0.00083	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
1,2,3-Trichlorobenzene	0.0046	U	0.0046	0.0015	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
1,1,1-Trichloroethane	0.0046	U	0.0046	0.00055	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
1,1,2-Trichloroethane	0.0046	U	0.0046	0.0012	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Trichloroethene	0.0046	U	0.0046	0.0012	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Trichlorofluoromethane	0.0046	U	0.0046	0.0011	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
1,2,3-Trichloropropane	0.0046	U	0.0046	0.0022	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0046	U	0.0046	0.0012	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
1,2,4-Trimethylbenzene	0.0046	U	0.0046	0.0013	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
1,3,5-Trimethylbenzene	0.0046	U	0.0046	0.0016	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Vinyl chloride	0.0046	U	0.0046	0.0014	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1
Xylenes, Total	0.0093	U	0.0093	0.0010	mg/Kg	☼	03/18/13 10:38	03/20/13 21:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*79*		*65 - 130*	*03/18/13 10:38*	*03/20/13 21:50*	*1*
Dibromofluoromethane	*84*		*65 - 130*	*03/18/13 10:38*	*03/20/13 21:50*	*1*
Toluene-d8 (Surr)	*85*		*65 - 130*	*03/18/13 10:38*	*03/20/13 21:50*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.038	U	0.038	0.011	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Acenaphthylene	0.038	U	0.038	0.0087	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Acetophenone	0.38	U	0.38	0.069	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
2-Acetylaminofluorene	0.19	U	0.19	0.035	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
alpha,alpha-Dimethyl phenethylamine	1.5	U	1.5	0.45	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
4-Aminobiphenyl	0.19	U	0.19	0.077	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Aniline	0.77	U	0.77	0.34	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Anthracene	0.038	U	0.038	0.0090	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Aramite	0.19	U	0.19	0.038	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Benzenethiol	0.77	U	0.77	0.38	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Benzidine	0.77	U *	0.77	0.38	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Benzo[a]anthracene	0.038	U	0.038	0.0080	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Benzo[a]pyrene	0.038	U	0.038	0.0069	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Benzo[b]fluoranthene	0.038	U	0.038	0.0074	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Benzo[g,h,i]perylene	0.038	U	0.038	0.013	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Benzoic acid	1.9	U	1.9	0.52	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Benzo[k]fluoranthene	0.038	U	0.038	0.0091	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Benzyl alcohol	0.38	U	0.38	0.11	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Bis(2-chloroethoxy)methane	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Bis(2-chloroethyl)ether	0.19	U	0.19	0.056	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Bis(2-ethylhexyl) phthalate	0.19	U	0.19	0.050	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
4-Bromophenyl phenyl ether	0.19	U	0.19	0.043	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Butyl benzyl phthalate	0.19	U	0.19	0.048	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-1-0-2-20130312-01
Date Collected: 03/12/13 14:15
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-17
Matrix: Solid
Percent Solids: 85.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	0.38	U	0.38	0.088	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
4-Chloroaniline	0.77	U	0.77	0.12	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
4-Chloro-3-methylphenol	0.38	U	0.38	0.18	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
2-Chloronaphthalene	0.19	U	0.19	0.043	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
2-Chlorophenol	0.19	U	0.19	0.054	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
4-Chlorophenyl phenyl ether	0.19	U	0.19	0.060	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Chrysene	0.038	U	0.038	0.0086	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Diallate	0.19	U	0.19	0.038	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Dibenz(a,h)anthracene	0.038	U	0.038	0.011	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Dibenz[a,j]acridine	0.19	U	0.19	0.021	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Dibenzofuran	0.19	U	0.19	0.046	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
1,2-Dichlorobenzene	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
1,3-Dichlorobenzene	0.19	U	0.19	0.040	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
1,4-Dichlorobenzene	0.19	U	0.19	0.040	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
3,3'-Dichlorobenzidine	0.19	U	0.19	0.032	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
2,4-Dichlorophenol	0.38	U	0.38	0.12	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
2,6-Dichlorophenol	0.19	U	0.19	0.054	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Diethyl phthalate	0.19	U	0.19	0.064	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Diethylstilbestrol	0.77	U	0.77	0.095	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Dimethoate	0.38	U	0.38	0.086	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
7,12-Dimethylbenz(a)anthracene	0.19	U	0.19	0.047	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
3,3'-Dimethylbenzidine	0.77	U	0.77	0.20	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
2,4-Dimethylphenol	0.38	U	0.38	0.12	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Dimethyl phthalate	0.19	U	0.19	0.048	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Di-n-butyl phthalate	0.19	U	0.19	0.048	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
1,4-Dinitrobenzene	0.19	U	0.19	0.030	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
4,6-Dinitro-2-methylphenol	0.38	U	0.38	0.092	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
2,4-Dinitrophenol	0.77	U	0.77	0.19	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
2,4-Dinitrotoluene	0.19	U	0.19	0.058	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
2,6-Dinitrotoluene	0.19	U	0.19	0.045	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Di-n-octyl phthalate	0.19	U	0.19	0.077	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Dinoseb	0.38	U	0.38	0.098	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
1,4-Dioxane	0.77	U	0.77	0.26	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Diphenylamine	0.19	U	0.19	0.044	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
1,2-Diphenylhydrazine	0.19	U	0.19	0.048	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Disulfoton	0.38	U	0.38	0.058	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Ethyl 4,4'-Dichlorobenzilate	0.19	U	0.19	0.024	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Ethyl methanesulfonate	0.19	U	0.19	0.022	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Ethyl Parathion	0.38	U	0.38	0.11	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Famphur	0.38	U	0.38	0.062	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Fluoranthene	0.038	U	0.038	0.016	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Fluorene	0.038	U	0.038	0.0087	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Hexachlorobenzene	0.077	U	0.077	0.0075	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Hexachlorobutadiene	0.19	U	0.19	0.050	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Hexachlorocyclopentadiene	0.77	U	0.77	0.18	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Hexachloroethane	0.19	U	0.19	0.041	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Hexachlorophene	3.8	U	3.8	1.4	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Hexachloropropene	0.38	U	0.38	0.15	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Indeno[1,2,3-cd]pyrene	0.038	U	0.038	0.013	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1

Client Sample ID: DDSB-1-0-2-20130312-01
Date Collected: 03/12/13 14:15
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-17
Matrix: Solid
Percent Solids: 85.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Isosafrole	0.19	U	0.19	0.021	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Kepone	0.77	U	0.77	0.38	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Malathion	0.38	U	0.38	0.11	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
m-Dinitrobenzene	0.19	U	0.19	0.036	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Methapyrilene	1.5	U	1.5	0.20	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
3-Methylcholanthrene	0.19	U	0.19	0.016	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Methyl methanesulfonate	0.19	U	0.19	0.031	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
2-Methylnaphthalene	0.19	U	0.19	0.049	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Methyl parathion	0.38	U	0.38	0.11	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
2-Methylphenol	0.19	U	0.19	0.051	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
3 & 4 Methylphenol	0.19	U	0.19	0.072	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Naphthalene	0.038	U	0.038	0.0073	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
1,4-Naphthoquinone	0.77	U	0.77	0.38	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
1-Naphthylamine	0.19	U	0.19	0.029	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
2-Naphthylamine	0.19	U	0.19	0.052	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
2-Nitroaniline	0.19	U	0.19	0.069	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
3-Nitroaniline	0.38	U	0.38	0.073	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
4-Nitroaniline	0.38	U	0.38	0.078	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Nitrobenzene	0.038	U	0.038	0.012	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
5-Nitro-o-toluidine	0.19	U	0.19	0.036	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
2-Nitrophenol	0.38	U	0.38	0.060	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
4-Nitrophenol	0.77	U	0.77	0.21	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
4-Nitroquinoline-1-oxide	0.77	U	0.77	0.36	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
N-Nitrosodiethylamine	0.38	U	0.38	0.11	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
N-Nitrosodimethylamine	0.77	U	0.77	0.42	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
N-Nitrosodi-n-butylamine	0.19	U	0.19	0.068	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
N-Nitrosodi-n-propylamine	0.19	U	0.19	0.048	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
N-Nitrosodiphenylamine	0.19	U	0.19	0.051	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
N-Nitrosomethylethylamine	0.77	U	0.77	0.31	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
N-Nitrosomorpholine	0.19	U	0.19	0.035	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
N-Nitrosopiperidine	0.38	U	0.38	0.035	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
N-Nitrosopyrrolidine	0.19	U	0.19	0.044	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
o,o',o''-Triethylphosphorothioate	0.38	U	0.38	0.059	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
o-Toluidine	0.19	U	0.19	0.037	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
2,2'-oxybis[1-chloropropane]	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
p-Dimethylamino azobenzene	0.19	U	0.19	0.020	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Pentachlorobenzene	0.19	U	0.19	0.048	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Pentachloronitrobenzene	0.19	U	0.19	0.027	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Pentachlorophenol	**0.33**	**J**	0.77	0.19	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Phenacetin	0.19	U	0.19	0.040	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Phenanthrene	0.038	U	0.038	0.016	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Phenol	0.19	U	0.19	0.060	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Phorate	0.38	U	0.38	0.080	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
2-Picoline	0.38	U	0.38	0.14	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
p-Phenylene diamine	1.5	U	1.5	0.080	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Pronamide	0.19	U	0.19	0.031	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Pyrene	0.038	U	0.038	0.014	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Pyridine	0.77	U	0.77	0.45	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1

Client Sample ID: DDSB-1-0-2-20130312-01
Date Collected: 03/12/13 14:15
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-17
Matrix: Solid
Percent Solids: 85.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole	0.19	U	0.19	0.018	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Sulfotepp	0.38	U	0.38	0.076	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
sym-Trinitrobenzene	0.77	U	0.77	0.39	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
1,2,4,5-Tetrachlorobenzene	0.19	U	0.19	0.045	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
2,3,4,6-Tetrachlorophenol	0.19	U	0.19	0.052	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
Thionazin	0.38	U	0.38	0.085	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
1,2,4-Trichlorobenzene	0.19	U	0.19	0.043	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
2,4,5-Trichlorophenol	0.38	U	0.38	0.11	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1
2,4,6-Trichlorophenol	0.38	U	0.38	0.048	mg/Kg	☼	03/15/13 07:34	03/22/13 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*51*		*30 - 119*	*03/15/13 07:34*	*03/22/13 23:55*	*1*
2-Fluorophenol	*50*		*30 - 110*	*03/15/13 07:34*	*03/22/13 23:55*	*1*
Nitrobenzene-d5	*50*		*30 - 115*	*03/15/13 07:34*	*03/22/13 23:55*	*1*
Phenol-d5	*49*		*31 - 110*	*03/15/13 07:34*	*03/22/13 23:55*	*1*
Terphenyl-d14	*64*		*36 - 134*	*03/15/13 07:34*	*03/22/13 23:55*	*1*
2,4,6-Tribromophenol	*65*		*35 - 137*	*03/15/13 07:34*	*03/22/13 23:55*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0019	U	0.0019	0.00079	mg/Kg	☼	03/15/13 07:24	03/26/13 09:58	1
alpha-BHC	0.0019	U	0.0019	0.00048	mg/Kg	☼	03/15/13 07:24	03/26/13 09:58	1
beta-BHC	0.0019	U	0.0019	0.00059	mg/Kg	☼	03/15/13 07:24	03/26/13 09:58	1
Chlordane (technical)	0.0076	U	0.0076	0.0037	mg/Kg	☼	03/15/13 07:24	03/26/13 09:58	1
4,4'-DDD	0.0019	U	0.0019	0.00038	mg/Kg	☼	03/15/13 07:24	03/26/13 09:58	1
4,4'-DDE	0.0019	U	0.0019	0.00032	mg/Kg	☼	03/15/13 07:24	03/26/13 09:58	1
4,4'-DDT	0.0019	U	0.0019	0.0010	mg/Kg	☼	03/15/13 07:24	03/26/13 09:58	1
delta-BHC	0.0019	U	0.0019	0.00060	mg/Kg	☼	03/15/13 07:24	03/26/13 09:58	1
Dieldrin	0.0019	U	0.0019	0.00026	mg/Kg	☼	03/15/13 07:24	03/26/13 09:58	1
Endosulfan I	0.0019	U	0.0019	0.00083	mg/Kg	☼	03/15/13 07:24	03/26/13 09:58	1
Endosulfan II	0.0019	U	0.0019	0.00031	mg/Kg	☼	03/15/13 07:24	03/26/13 09:58	1
Endosulfan sulfate	0.0019	U	0.0019	0.00035	mg/Kg	☼	03/15/13 07:24	03/26/13 09:58	1
Endrin	0.0019	U	0.0019	0.00026	mg/Kg	☼	03/15/13 07:24	03/26/13 09:58	1
Endrin aldehyde	0.0019	U	0.0019	0.00032	mg/Kg	☼	03/15/13 07:24	03/26/13 09:58	1
Endrin ketone	0.0019	U	0.0019	0.00043	mg/Kg	☼	03/15/13 07:24	03/26/13 09:58	1
gamma-BHC (Lindane)	0.0019	U	0.0019	0.00041	mg/Kg	☼	03/15/13 07:24	03/26/13 09:58	1
Heptachlor	0.0019	U	0.0019	0.00080	mg/Kg	☼	03/15/13 07:24	03/26/13 09:58	1
Heptachlor epoxide	0.0019	U	0.0019	0.00068	mg/Kg	☼	03/15/13 07:24	03/26/13 09:58	1
Isodrin	0.0019	U	0.0019	0.00088	mg/Kg	☼	03/15/13 07:24	03/26/13 09:58	1
Methoxychlor	0.0094	U	0.0094	0.00037	mg/Kg	☼	03/15/13 07:24	03/26/13 09:58	1
Toxaphene	0.019	U	0.019	0.0080	mg/Kg	☼	03/15/13 07:24	03/26/13 09:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*56 - 128*	*03/15/13 07:24*	*03/26/13 09:58*	*1*
Tetrachloro-m-xylene	*59*		*45 - 112*	*03/15/13 07:24*	*03/26/13 09:58*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.019	U	0.019	0.0067	mg/Kg	☼	03/15/13 07:24	03/20/13 10:17	1
PCB-1221	0.019	U	0.019	0.0084	mg/Kg	☼	03/15/13 07:24	03/20/13 10:17	1

Client Sample ID: DDSB-1-0-2-20130312-01
Date Collected: 03/12/13 14:15
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-17
Matrix: Solid
Percent Solids: 85.3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	0.019	U	0.019	0.0083	mg/Kg	☼	03/15/13 07:24	03/20/13 10:17	1
PCB-1242	0.019	U	0.019	0.0062	mg/Kg	☼	03/15/13 07:24	03/20/13 10:17	1
PCB-1248	0.019	U	0.019	0.0075	mg/Kg	☼	03/15/13 07:24	03/20/13 10:17	1
PCB-1254	0.019	U	0.019	0.0041	mg/Kg	☼	03/15/13 07:24	03/20/13 10:17	1
PCB-1260	0.019	U	0.019	0.0093	mg/Kg	☼	03/15/13 07:24	03/20/13 10:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*50 - 116*	*03/15/13 07:24*	*03/20/13 10:17*	*1*
DCB Decachlorobiphenyl	*101*		*48 - 142*	*03/15/13 07:24*	*03/20/13 10:17*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.076	U	0.076	0.0033	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Azinphos-methyl	0.076	U	0.076	0.017	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Bolstar	0.038	U	0.038	0.0054	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Carbophenthion	0.076	U	0.076	0.0061	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Chlorpyrifos	0.038	U	0.038	0.0078	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Chlorpyrifos-methyl	0.038	U	0.038	0.014	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Coumaphos	0.38	U	0.38	0.025	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Demeton-O	0.096	U	0.096	0.0030	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Demeton-S	0.096	U	0.096	0.0064	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Demeton, Total	0.096	U	0.096	0.0089	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Diazinon	0.038	U	0.038	0.0066	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Dichlofenthion	0.038	U	0.038	0.0048	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Dichlorvos	0.076	U	0.076	0.0074	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Dimethoate	0.076	U	0.076	0.010	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Disulfoton	0.076	U	0.076	0.018	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
EPN	0.038	U	0.038	0.0052	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Ethion	0.020	U	0.020	0.0061	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Ethoprop	0.020	U	0.020	0.0048	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Ethyl Parathion	0.038	U	0.038	0.0063	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Famphur	0.076	U	0.076	0.0096	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Fensulfothion	0.38	U	0.38	0.014	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Fenthion	0.038	U	0.038	0.0054	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Malathion	0.038	U	0.038	0.0094	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Merphos	0.038	U	0.038	0.013	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Methyl parathion	0.020	U	0.020	0.0062	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Mevinphos	0.076	U	0.076	0.0053	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Monochrotophos	0.38	U	0.38	0.053	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Naled	0.38	U	0.38	0.025	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Phorate	0.038	U	0.038	0.0062	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Ronnel	0.038	U	0.038	0.0048	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Simazine	0.076	U	0.076	0.0037	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Stirophos	0.038	U	0.038	0.0074	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Sulfotepp	0.020	U	0.020	0.0099	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Terbufos	0.020	U	0.020	0.018	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Thionazin	0.038	U	0.038	0.012	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Tokuthion	0.038	U	0.038	0.0062	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1
Trichloronate	0.38	U	0.38	0.0088	mg/Kg	☼	03/16/13 09:29	04/02/13 09:06	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-1-0-2-20130312-01
Date Collected: 03/12/13 14:15
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-17
Matrix: Solid
Percent Solids: 85.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate (TPP)	*67*		*35 - 134*	*03/16/13 09:29*	*04/02/13 09:06*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		20	9.9	mg/Kg	☼	03/15/13 09:28	03/19/13 04:18	1
Antimony	2.0	U	2.0	0.52	mg/Kg	☼	03/15/13 09:28	03/19/13 04:18	1
Arsenic	**3.3**		2.0	0.58	mg/Kg	☼	03/15/13 09:28	03/19/13 04:18	1
Barium	**73**		0.99	0.30	mg/Kg	☼	03/15/13 09:28	03/19/13 04:18	1
Beryllium	**0.67**		0.39	0.020	mg/Kg	☼	03/15/13 09:28	03/19/13 04:18	1
Cadmium	0.49	U	0.49	0.099	mg/Kg	☼	03/15/13 09:28	03/19/13 04:18	1
Calcium	**470**		49	20	mg/Kg	☼	03/15/13 09:28	03/19/13 04:18	1
Chromium	**19**		0.99	0.49	mg/Kg	☼	03/15/13 09:28	03/19/13 04:18	1
Cobalt	**11**		0.99	0.12	mg/Kg	☼	03/15/13 09:28	03/19/13 04:18	1
Copper	**6.7**		2.5	1.1	mg/Kg	☼	03/15/13 09:28	03/19/13 04:18	1
Iron	**16000**		20	6.9	mg/Kg	☼	03/15/13 09:28	03/19/13 04:18	1
Lead	**19**		0.99	0.52	mg/Kg	☼	03/15/13 09:28	03/19/13 04:18	1
Magnesium	**280**		49	2.4	mg/Kg	☼	03/15/13 09:28	03/19/13 04:18	1
Manganese	**1200**		0.99	0.30	mg/Kg	☼	03/15/13 09:28	03/19/13 04:18	1
Nickel	**6.7**		3.9	0.31	mg/Kg	☼	03/15/13 09:28	03/19/13 04:18	1
Potassium	**370**		99	7.9	mg/Kg	☼	03/15/13 09:28	03/19/13 04:18	1
Selenium	2.5	U	2.5	0.99	mg/Kg	☼	03/15/13 09:28	03/19/13 04:18	1
Silver	0.99	U	0.99	0.095	mg/Kg	☼	03/15/13 09:28	03/19/13 04:18	1
Sodium	200	U	200	81	mg/Kg	☼	03/15/13 09:28	03/19/13 04:18	1
Thallium	**3.5**		2.5	0.98	mg/Kg	☼	03/15/13 09:28	03/19/13 04:18	1
Vanadium	**32**		0.99	0.24	mg/Kg	☼	03/15/13 09:28	03/19/13 04:18	1
Zinc	**20**		2.0	1.2	mg/Kg	☼	03/15/13 09:28	03/19/13 04:18	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.061**		0.020	0.0081	mg/Kg	☼	03/14/13 10:22	03/15/13 19:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	1.1	U	1.1	0.34	mg/Kg	☼	03/14/13 11:02	03/15/13 12:51	1
Cyanide, Total	0.58	U	0.58	0.24	mg/Kg	☼	03/14/13 08:30	03/15/13 09:49	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-1-12-13-20130312-01
Date Collected: 03/12/13 14:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-18
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.046	U	0.046	0.010	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Benzene	0.0046	U	0.0046	0.00066	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Bromobenzene	0.0046	U	0.0046	0.0015	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Bromochloromethane	0.0046	U	0.0046	0.0030	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Bromodichloromethane	0.0046	U	0.0046	0.00088	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Bromoform	0.0046	U	0.0046	0.0014	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Bromomethane	0.0046	U	0.0046	0.0014	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
2-Butanone	0.023	U	0.023	0.0022	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Carbon disulfide	0.0046	U	0.0046	0.0010	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Carbon tetrachloride	0.0046	U	0.0046	0.00076	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Chlorobenzene	0.0046	U	0.0046	0.00087	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Chlorodibromomethane	0.0046	U	0.0046	0.0015	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Chloroethane	0.0046	U	0.0046	0.0025	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Chloroform	0.0046	U	0.0046	0.0010	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Chloromethane	0.0046	U	0.0046	0.00091	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
2-Chlorotoluene	0.0046	U	0.0046	0.0018	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
4-Chlorotoluene	0.0046	U	0.0046	0.0015	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
cis-1,2-Dichloroethene	0.0046	U	0.0046	0.0013	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
cis-1,3-Dichloropropene	0.0046	U	0.0046	0.00076	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Cyclohexane	0.0091	U	0.0091	0.0012	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
1,2-Dibromo-3-Chloropropane	0.0091	U	0.0091	0.0040	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
1,2-Dibromoethane	0.0046	U	0.0046	0.0014	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Dibromomethane	0.0046	U	0.0046	0.0015	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
1,2-Dichlorobenzene	0.0046	U	0.0046	0.0012	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
1,3-Dichlorobenzene	0.0046	U	0.0046	0.0015	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
1,4-Dichlorobenzene	0.0046	U	0.0046	0.00067	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Dichlorodifluoromethane	0.0046	U	0.0046	0.00086	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
1,1-Dichloroethane	0.0046	U	0.0046	0.0010	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
1,2-Dichloroethane	0.0046	U	0.0046	0.0010	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
1,1-Dichloroethene	0.0046	U	0.0046	0.0014	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
1,2-Dichloropropane	0.0046	U	0.0046	0.00078	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
2,2-Dichloropropane	0.0046	U	0.0046	0.0010	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
1,3-Dichloropropane	0.0046	U	0.0046	0.0016	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
1,1-Dichloropropene	0.0046	U	0.0046	0.00086	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Ethylbenzene	0.0046	U	0.0046	0.0012	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Hexachlorobutadiene	0.0046	U	0.0046	0.0028	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
2-Hexanone	0.023	U	0.023	0.0030	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Isopropylbenzene	0.0046	U	0.0046	0.0017	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Methyl acetate	0.0091	U	0.0091	0.0046	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Methylcyclohexane	0.0091	U	0.0091	0.00078	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Methylene Chloride	0.0046	U	0.0046	0.00089	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
4-Methyl-2-pentanone	0.023	U	0.023	0.0038	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Methyl tert-butyl ether	0.0091	U	0.0091	0.00091	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Naphthalene	0.0046	U	0.0046	0.0011	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
n-Butylbenzene	0.0046	U	0.0046	0.0022	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
N-Propylbenzene	0.0046	U	0.0046	0.0025	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
p-Isopropyltoluene	0.0046	U	0.0046	0.0020	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
sec-Butylbenzene	0.0046	U	0.0046	0.0019	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Styrene	0.0046	U	0.0046	0.00085	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-1-12-13-20130312-01
Date Collected: 03/12/13 14:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-18
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.0046	U	0.0046	0.0016	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
1,1,2,2-Tetrachloroethane	0.0046	U	0.0046	0.0015	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
1,1,1,2-Tetrachloroethane	0.0046	U	0.0046	0.0022	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Tetrachloroethene	0.0046	U	0.0046	0.0017	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Toluene	0.0046	U	0.0046	0.00076	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
trans-1,2-Dichloroethene	0.0046	U	0.0046	0.00057	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
trans-1,3-Dichloropropene	0.0046	U	0.0046	0.00079	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
1,2,4-Trichlorobenzene	0.0046	U	0.0046	0.00081	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
1,2,3-Trichlorobenzene	0.0046	U	0.0046	0.0015	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
1,1,1-Trichloroethane	0.0046	U	0.0046	0.00054	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
1,1,2-Trichloroethane	0.0046	U	0.0046	0.0012	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Trichloroethene	0.0046	U	0.0046	0.0012	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Trichlorofluoromethane	0.0046	U	0.0046	0.0011	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
1,2,3-Trichloropropane	0.0046	U	0.0046	0.0022	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0046	U	0.0046	0.0012	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
1,2,4-Trimethylbenzene	0.0046	U	0.0046	0.0013	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
1,3,5-Trimethylbenzene	0.0046	U	0.0046	0.0015	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Vinyl chloride	0.0046	U	0.0046	0.0014	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1
Xylenes, Total	0.0091	U	0.0091	0.0010	mg/Kg	☼	03/18/13 10:38	03/19/13 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*65 - 130*	*03/18/13 10:38*	*03/19/13 19:14*	*1*
Dibromofluoromethane	*90*		*65 - 130*	*03/18/13 10:38*	*03/19/13 19:14*	*1*
Toluene-d8 (Surr)	*100*		*65 - 130*	*03/18/13 10:38*	*03/19/13 19:14*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.039	U	0.039	0.012	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Acenaphthylene	0.039	U	0.039	0.0091	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Acetophenone	0.39	U	0.39	0.072	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
2-Acetylaminofluorene	0.20	U	0.20	0.037	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
alpha,alpha-Dimethyl phenethylamine	1.6	U	1.6	0.47	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
4-Aminobiphenyl	0.20	U	0.20	0.080	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Aniline	0.80	U	0.80	0.36	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Anthracene	0.039	U	0.039	0.0093	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Aramite	0.20	U	0.20	0.039	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Benzenethiol	0.80	U	0.80	0.39	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Benzidine	0.80	U *	0.80	0.39	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Benzo[a]anthracene	0.039	U	0.039	0.0083	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Benzo[a]pyrene	0.039	U	0.039	0.0072	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Benzo[b]fluoranthene	0.039	U	0.039	0.0077	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Benzo[g,h,i]perylene	0.039	U	0.039	0.013	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Benzoic acid	2.0	U	2.0	0.54	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Benzo[k]fluoranthene	0.039	U	0.039	0.0094	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Benzyl alcohol	0.39	U	0.39	0.12	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Bis(2-chloroethoxy)methane	0.20	U	0.20	0.044	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Bis(2-chloroethyl)ether	0.20	U	0.20	0.059	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Bis(2-ethylhexyl) phthalate	0.20	U	0.20	0.052	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
4-Bromophenyl phenyl ether	0.20	U	0.20	0.044	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Butyl benzyl phthalate	0.20	U	0.20	0.050	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1

Client: ERM-Southeast, Inc.
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TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-1-12-13-20130312-01
Date Collected: 03/12/13 14:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-18
Matrix: Solid
Percent Solids: 83.4

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	0.39	U	0.39	0.091	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
4-Chloroaniline	0.80	U	0.80	0.12	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
4-Chloro-3-methylphenol	0.39	U	0.39	0.19	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
2-Chloronaphthalene	0.20	U	0.20	0.045	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
2-Chlorophenol	0.20	U	0.20	0.057	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
4-Chlorophenyl phenyl ether	0.20	U	0.20	0.062	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Chrysene	0.039	U	0.039	0.0089	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Diallate	0.20	U	0.20	0.040	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Dibenz(a,h)anthracene	0.039	U	0.039	0.011	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Dibenz[a,j]acridine	0.20	U	0.20	0.022	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Dibenzofuran	0.20	U	0.20	0.048	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
1,2-Dichlorobenzene	0.20	U	0.20	0.043	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
1,3-Dichlorobenzene	0.20	U	0.20	0.042	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
1,4-Dichlorobenzene	0.20	U	0.20	0.042	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
3,3'-Dichlorobenzidine	0.20	U	0.20	0.033	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
2,4-Dichlorophenol	0.39	U	0.39	0.12	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
2,6-Dichlorophenol	0.20	U	0.20	0.056	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Diethyl phthalate	0.20	U	0.20	0.066	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Diethylstilbestrol	0.80	U	0.80	0.099	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Dimethoate	0.39	U	0.39	0.089	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
7,12-Dimethylbenz(a)anthracene	0.20	U	0.20	0.048	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
3,3'-Dimethylbenzidine	0.80	U	0.80	0.21	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
2,4-Dimethylphenol	0.39	U	0.39	0.12	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Dimethyl phthalate	0.20	U	0.20	0.049	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Di-n-butyl phthalate	0.20	U	0.20	0.050	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
1,4-Dinitrobenzene	0.20	U	0.20	0.031	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
4,6-Dinitro-2-methylphenol	0.39	U	0.39	0.096	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
2,4-Dinitrophenol	0.80	U	0.80	0.20	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
2,4-Dinitrotoluene	0.20	U	0.20	0.061	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
2,6-Dinitrotoluene	0.20	U	0.20	0.047	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Di-n-octyl phthalate	0.20	U	0.20	0.080	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Dinoseb	0.39	U	0.39	0.10	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
1,4-Dioxane	0.80	U	0.80	0.27	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Diphenylamine	0.20	U	0.20	0.046	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
1,2-Diphenylhydrazine	0.20	U	0.20	0.050	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Disulfoton	0.39	U	0.39	0.060	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Ethyl 4,4'-Dichlorobenzilate	0.20	U	0.20	0.025	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Ethyl methanesulfonate	0.20	U	0.20	0.022	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Ethyl Parathion	0.39	U	0.39	0.11	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Famphur	0.39	U	0.39	0.064	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Fluoranthene	0.039	U	0.039	0.016	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Fluorene	0.039	U	0.039	0.0090	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Hexachlorobenzene	0.080	U	0.080	0.0078	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Hexachlorobutadiene	0.20	U	0.20	0.052	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Hexachlorocyclopentadiene	0.80	U	0.80	0.18	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Hexachloroethane	0.20	U	0.20	0.042	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Hexachlorophene	3.9	U	3.9	1.5	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Hexachloropropene	0.39	U	0.39	0.16	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Indeno[1,2,3-cd]pyrene	0.039	U	0.039	0.013	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-1-12-13-20130312-01
Date Collected: 03/12/13 14:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-18
Matrix: Solid
Percent Solids: 83.4

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	0.20	U	0.20	0.044	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Isosafrole	0.20	U	0.20	0.021	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Kepone	0.80	U	0.80	0.39	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Malathion	0.39	U	0.39	0.12	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
m-Dinitrobenzene	0.20	U	0.20	0.037	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Methapyrilene	1.6	U	1.6	0.21	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
3-Methylcholanthrene	0.20	U	0.20	0.017	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Methyl methanesulfonate	0.20	U	0.20	0.032	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
2-Methylnaphthalene	0.20	U	0.20	0.051	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Methyl parathion	0.39	U	0.39	0.11	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
2-Methylphenol	0.20	U	0.20	0.053	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
3 & 4 Methylphenol	0.20	U	0.20	0.075	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Naphthalene	0.039	U	0.039	0.0076	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
1,4-Naphthoquinone	0.80	U	0.80	0.39	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
1-Naphthylamine	0.20	U	0.20	0.030	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
2-Naphthylamine	0.20	U	0.20	0.054	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
2-Nitroaniline	0.20	U	0.20	0.071	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
3-Nitroaniline	0.39	U	0.39	0.076	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
4-Nitroaniline	0.39	U	0.39	0.081	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Nitrobenzene	0.039	U	0.039	0.012	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
5-Nitro-o-toluidine	0.20	U	0.20	0.037	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
2-Nitrophenol	0.39	U	0.39	0.062	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
4-Nitrophenol	0.80	U	0.80	0.21	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
4-Nitroquinoline-1-oxide	0.80	U	0.80	0.37	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
N-Nitrosodiethylamine	0.39	U	0.39	0.11	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
N-Nitrosodimethylamine	0.80	U	0.80	0.43	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
N-Nitrosodi-n-butylamine	0.20	U	0.20	0.071	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
N-Nitrosodi-n-propylamine	0.20	U	0.20	0.050	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
N-Nitrosodiphenylamine	0.20	U	0.20	0.054	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
N-Nitrosomethylethylamine	0.80	U	0.80	0.32	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
N-Nitrosomorpholine	0.20	U	0.20	0.037	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
N-Nitrosopiperidine	0.39	U	0.39	0.036	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
N-Nitrosopyrrolidine	0.20	U	0.20	0.045	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
o,o',o''-Triethylphosphorothioate	0.39	U	0.39	0.061	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
o-Toluidine	0.20	U	0.20	0.038	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
2,2'-oxybis[1-chloropropane]	0.20	U	0.20	0.044	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
p-Dimethylamino azobenzene	0.20	U	0.20	0.021	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Pentachlorobenzene	0.20	U	0.20	0.050	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Pentachloronitrobenzene	0.20	U	0.20	0.028	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Pentachlorophenol	0.80	U	0.80	0.20	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Phenacetin	0.20	U	0.20	0.041	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Phenanthrene	0.039	U	0.039	0.017	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Phenol	0.20	U	0.20	0.063	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Phorate	0.39	U	0.39	0.084	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
2-Picoline	0.39	U	0.39	0.15	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
p-Phenylene diamine	1.6	U	1.6	0.083	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Pronamide	0.20	U	0.20	0.032	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Pyrene	0.039	U	0.039	0.014	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Pyridine	0.80	U	0.80	0.47	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1

Client Sample ID: DDSB-1-12-13-20130312-01
Date Collected: 03/12/13 14:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-18
Matrix: Solid
Percent Solids: 83.4

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole	0.20	U	0.20	0.019	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Sulfotepp	0.39	U	0.39	0.079	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
sym-Trinitrobenzene	0.80	U	0.80	0.40	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
1,2,4,5-Tetrachlorobenzene	0.20	U	0.20	0.047	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
2,3,4,6-Tetrachlorophenol	0.20	U	0.20	0.054	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
Thionazin	0.39	U	0.39	0.088	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
1,2,4-Trichlorobenzene	0.20	U	0.20	0.045	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
2,4,5-Trichlorophenol	0.39	U	0.39	0.11	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1
2,4,6-Trichlorophenol	0.39	U	0.39	0.050	mg/Kg	☼	03/15/13 07:34	03/23/13 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*30 - 119*	*03/15/13 07:34*	*03/23/13 00:13*	*1*
2-Fluorophenol	*70*		*30 - 110*	*03/15/13 07:34*	*03/23/13 00:13*	*1*
Nitrobenzene-d5	*70*		*30 - 115*	*03/15/13 07:34*	*03/23/13 00:13*	*1*
Phenol-d5	*64*		*31 - 110*	*03/15/13 07:34*	*03/23/13 00:13*	*1*
Terphenyl-d14	*83*		*36 - 134*	*03/15/13 07:34*	*03/23/13 00:13*	*1*
2,4,6-Tribromophenol	*73*		*35 - 137*	*03/15/13 07:34*	*03/23/13 00:13*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0020	U	0.0020	0.00081	mg/Kg	☼	03/15/13 07:24	03/26/13 10:19	1
alpha-BHC	0.0020	U	0.0020	0.00050	mg/Kg	☼	03/15/13 07:24	03/26/13 10:19	1
beta-BHC	0.0020	U	0.0020	0.00061	mg/Kg	☼	03/15/13 07:24	03/26/13 10:19	1
Chlordane (technical)	0.0079	U	0.0079	0.0038	mg/Kg	☼	03/15/13 07:24	03/26/13 10:19	1
4,4'-DDD	0.0020	U	0.0020	0.00039	mg/Kg	☼	03/15/13 07:24	03/26/13 10:19	1
4,4'-DDE	0.0020	U	0.0020	0.00033	mg/Kg	☼	03/15/13 07:24	03/26/13 10:19	1
4,4'-DDT	0.0020	U	0.0020	0.0010	mg/Kg	☼	03/15/13 07:24	03/26/13 10:19	1
delta-BHC	0.0020	U	0.0020	0.00062	mg/Kg	☼	03/15/13 07:24	03/26/13 10:19	1
Dieldrin	0.0020	U	0.0020	0.00027	mg/Kg	☼	03/15/13 07:24	03/26/13 10:19	1
Endosulfan I	0.0020	U	0.0020	0.00086	mg/Kg	☼	03/15/13 07:24	03/26/13 10:19	1
Endosulfan II	0.0020	U	0.0020	0.00032	mg/Kg	☼	03/15/13 07:24	03/26/13 10:19	1
Endosulfan sulfate	0.0020	U	0.0020	0.00036	mg/Kg	☼	03/15/13 07:24	03/26/13 10:19	1
Endrin	0.0020	U	0.0020	0.00027	mg/Kg	☼	03/15/13 07:24	03/26/13 10:19	1
Endrin aldehyde	0.0020	U	0.0020	0.00033	mg/Kg	☼	03/15/13 07:24	03/26/13 10:19	1
Endrin ketone	0.0020	U	0.0020	0.00044	mg/Kg	☼	03/15/13 07:24	03/26/13 10:19	1
gamma-BHC (Lindane)	0.0020	U	0.0020	0.00043	mg/Kg	☼	03/15/13 07:24	03/26/13 10:19	1
Heptachlor	0.0020	U	0.0020	0.00082	mg/Kg	☼	03/15/13 07:24	03/26/13 10:19	1
Heptachlor epoxide	0.0020	U	0.0020	0.00070	mg/Kg	☼	03/15/13 07:24	03/26/13 10:19	1
Isodrin	0.0020	U	0.0020	0.00091	mg/Kg	☼	03/15/13 07:24	03/26/13 10:19	1
Methoxychlor	0.0098	U	0.0098	0.00038	mg/Kg	☼	03/15/13 07:24	03/26/13 10:19	1
Toxaphene	0.020	U	0.020	0.0083	mg/Kg	☼	03/15/13 07:24	03/26/13 10:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*66*		*56 - 128*	*03/15/13 07:24*	*03/26/13 10:19*	*1*
Tetrachloro-m-xylene	*43*	*X*	*45 - 112*	*03/15/13 07:24*	*03/26/13 10:19*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.020	U	0.020	0.0069	mg/Kg	☼	03/15/13 07:24	03/20/13 10:31	1
PCB-1221	0.020	U	0.020	0.0086	mg/Kg	☼	03/15/13 07:24	03/20/13 10:31	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-1-12-13-20130312-01
Date Collected: 03/12/13 14:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-18
Matrix: Solid
Percent Solids: 83.4

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	0.020	U	0.020	0.0085	mg/Kg	☼	03/15/13 07:24	03/20/13 10:31	1
PCB-1242	0.020	U	0.020	0.0064	mg/Kg	☼	03/15/13 07:24	03/20/13 10:31	1
PCB-1248	0.020	U	0.020	0.0077	mg/Kg	☼	03/15/13 07:24	03/20/13 10:31	1
PCB-1254	0.020	U	0.020	0.0042	mg/Kg	☼	03/15/13 07:24	03/20/13 10:31	1
PCB-1260	0.020	U	0.020	0.0096	mg/Kg	☼	03/15/13 07:24	03/20/13 10:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*55*		*50 - 116*	*03/15/13 07:24*	*03/20/13 10:31*	*1*
DCB Decachlorobiphenyl	*81*		*48 - 142*	*03/15/13 07:24*	*03/20/13 10:31*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.078	U	0.078	0.0034	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Azinphos-methyl	0.078	U	0.078	0.018	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Bolstar	0.039	U	0.039	0.0055	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Carbophenthion	0.078	U	0.078	0.0062	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Chlorpyrifos	0.039	U	0.039	0.0080	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Chlorpyrifos-methyl	0.039	U	0.039	0.014	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Coumaphos	0.39	U	0.39	0.026	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Demeton-O	0.098	U	0.098	0.0031	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Demeton-S	0.098	U	0.098	0.0066	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Demeton, Total	0.098	U	0.098	0.0091	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Diazinon	0.039	U	0.039	0.0067	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Dichlofenthion	0.039	U	0.039	0.0049	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Dichlorvos	0.078	U	0.078	0.0075	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Dimethoate	0.078	U	0.078	0.010	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Disulfoton	0.078	U	0.078	0.019	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
EPN	0.039	U	0.039	0.0053	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Ethion	0.020	U	0.020	0.0062	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Ethoprop	0.020	U	0.020	0.0049	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Ethyl Parathion	0.039	U	0.039	0.0065	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Famphur	0.078	U	0.078	0.0098	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Fensulfothion	0.39	U	0.39	0.014	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Fenthion	0.039	U	0.039	0.0055	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Malathion	0.039	U	0.039	0.0097	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Merphos	0.039	U	0.039	0.013	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Methyl parathion	0.020	U	0.020	0.0064	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Mevinphos	0.078	U	0.078	0.0054	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Monochrotophos	0.39	U	0.39	0.054	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Naled	0.39	U	0.39	0.026	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Phorate	0.039	U	0.039	0.0064	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Ronnel	0.039	U	0.039	0.0049	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Simazine	0.078	U	0.078	0.0038	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Stirophos	0.039	U	0.039	0.0075	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Sulfotepp	0.020	U	0.020	0.010	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Terbufos	0.020	U	0.020	0.019	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Thionazin	0.039	U	0.039	0.012	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Tokuthion	0.039	U	0.039	0.0064	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1
Trichloronate	0.39	U	0.39	0.0089	mg/Kg	☼	03/16/13 09:29	04/02/13 09:21	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-1-12-13-20130312-01
Date Collected: 03/12/13 14:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-18
Matrix: Solid
Percent Solids: 83.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate (TPP)	*54*		*35 - 134*	*03/16/13 09:29*	*04/02/13 09:21*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9100**		21	10	mg/Kg	☼	03/15/13 09:28	03/19/13 04:23	1
Antimony	2.1	U	2.1	0.55	mg/Kg	☼	03/15/13 09:28	03/19/13 04:23	1
Arsenic	**1.0**	**J**	2.1	0.62	mg/Kg	☼	03/15/13 09:28	03/19/13 04:23	1
Barium	**11**		1.0	0.31	mg/Kg	☼	03/15/13 09:28	03/19/13 04:23	1
Beryllium	**0.17**	**J**	0.42	0.021	mg/Kg	☼	03/15/13 09:28	03/19/13 04:23	1
Cadmium	0.52	U	0.52	0.10	mg/Kg	☼	03/15/13 09:28	03/19/13 04:23	1
Calcium	**130**		52	21	mg/Kg	☼	03/15/13 09:28	03/19/13 04:23	1
Chromium	**7.3**		1.0	0.52	mg/Kg	☼	03/15/13 09:28	03/19/13 04:23	1
Cobalt	**1.1**		1.0	0.13	mg/Kg	☼	03/15/13 09:28	03/19/13 04:23	1
Copper	**4.7**		2.6	1.1	mg/Kg	☼	03/15/13 09:28	03/19/13 04:23	1
Iron	**7000**		21	7.3	mg/Kg	☼	03/15/13 09:28	03/19/13 04:23	1
Lead	**4.0**		1.0	0.55	mg/Kg	☼	03/15/13 09:28	03/19/13 04:23	1
Magnesium	**150**		52	2.5	mg/Kg	☼	03/15/13 09:28	03/19/13 04:23	1
Manganese	**34**		1.0	0.31	mg/Kg	☼	03/15/13 09:28	03/19/13 04:23	1
Nickel	**3.1**	**J**	4.2	0.32	mg/Kg	☼	03/15/13 09:28	03/19/13 04:23	1
Potassium	**190**		100	8.3	mg/Kg	☼	03/15/13 09:28	03/19/13 04:23	1
Selenium	2.6	U	2.6	1.0	mg/Kg	☼	03/15/13 09:28	03/19/13 04:23	1
Silver	1.0	U	1.0	0.10	mg/Kg	☼	03/15/13 09:28	03/19/13 04:23	1
Sodium	210	U	210	86	mg/Kg	☼	03/15/13 09:28	03/19/13 04:23	1
Thallium	2.6	U	2.6	1.0	mg/Kg	☼	03/15/13 09:28	03/19/13 04:23	1
Vanadium	**16**		1.0	0.25	mg/Kg	☼	03/15/13 09:28	03/19/13 04:23	1
Zinc	**16**		2.1	1.3	mg/Kg	☼	03/15/13 09:28	03/19/13 04:23	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.036**		0.021	0.0086	mg/Kg	☼	03/14/13 10:22	03/15/13 19:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	1.1	U	1.1	0.33	mg/Kg	☼	03/14/13 11:02	03/15/13 12:56	1
Cyanide, Total	0.57	U	0.57	0.24	mg/Kg	☼	03/14/13 08:30	03/15/13 09:54	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-11-0-2-20130312-01
Date Collected: 03/12/13 15:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-19
Matrix: Solid
Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**1.6**	**J**	2.6	0.57	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Benzene	**0.49**		0.26	0.038	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Bromobenzene	0.26	U	0.26	0.088	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Bromochloromethane	0.26	U	0.26	0.17	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Bromodichloromethane	0.26	U	0.26	0.050	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Bromoform	0.26	U	0.26	0.077	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Bromomethane	0.26	U	0.26	0.077	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
2-Butanone	**0.63**	**J**	1.3	0.12	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Carbon disulfide	0.26	U	0.26	0.057	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Carbon tetrachloride	0.26	U	0.26	0.043	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Chlorobenzene	0.26	U	0.26	0.050	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Chlorodibromomethane	0.26	U	0.26	0.088	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Chloroethane	0.26	U	0.26	0.14	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Chloroform	0.26	U	0.26	0.057	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Chloromethane	0.26	U	0.26	0.052	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
2-Chlorotoluene	0.26	U	0.26	0.10	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
4-Chlorotoluene	0.26	U	0.26	0.088	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
cis-1,2-Dichloroethene	0.26	U	0.26	0.072	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
cis-1,3-Dichloropropene	0.26	U	0.26	0.043	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Cyclohexane	**2.7**		0.52	0.067	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
1,2-Dibromo-3-Chloropropane	0.52	U	0.52	0.23	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
1,2-Dibromoethane	0.26	U	0.26	0.077	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Dibromomethane	0.26	U	0.26	0.088	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
1,2-Dichlorobenzene	0.26	U	0.26	0.067	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
1,3-Dichlorobenzene	0.26	U	0.26	0.083	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
1,4-Dichlorobenzene	0.26	U	0.26	0.038	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Dichlorodifluoromethane	0.26	U	0.26	0.049	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
1,1-Dichloroethane	0.26	U	0.26	0.057	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
1,2-Dichloroethane	0.26	U	0.26	0.057	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
1,1-Dichloroethene	0.26	U	0.26	0.077	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
1,2-Dichloropropane	0.26	U	0.26	0.044	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
2,2-Dichloropropane	0.26	U	0.26	0.057	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
1,3-Dichloropropane	0.26	U	0.26	0.093	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
1,1-Dichloropropene	0.26	U	0.26	0.049	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Ethylbenzene	**0.37**		0.26	0.067	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Hexachlorobutadiene	0.26	U	0.26	0.16	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
2-Hexanone	1.3	U	1.3	0.17	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Isopropylbenzene	**0.16**	**J**	0.26	0.098	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Methyl acetate	**0.31**	**J**	0.52	0.26	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Methylcyclohexane	**6.9**		0.52	0.044	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Methylene Chloride	0.26	U	0.26	0.051	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
4-Methyl-2-pentanone	1.3	U	1.3	0.22	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Methyl tert-butyl ether	0.52	U	0.52	0.052	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Naphthalene	**3.3**		0.26	0.062	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
n-Butylbenzene	**0.15**	**J**	0.26	0.12	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
N-Propylbenzene	**0.20**	**J**	0.26	0.14	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
p-Isopropyltoluene	**0.12**	**J**	0.26	0.11	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
sec-Butylbenzene	0.26	U	0.26	0.11	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Styrene	0.26	U	0.26	0.048	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40

Client Sample ID: DDSB-11-0-2-20130312-01
Date Collected: 03/12/13 15:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-19
Matrix: Solid
Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.26	U	0.26	0.093	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
1,1,2,2-Tetrachloroethane	0.26	U	0.26	0.083	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
1,1,1,2-Tetrachloroethane	0.26	U	0.26	0.12	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Tetrachloroethene	0.26	U	0.26	0.098	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Toluene	**3.1**		0.26	0.043	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
trans-1,2-Dichloroethene	0.26	U	0.26	0.033	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
trans-1,3-Dichloropropene	0.26	U	0.26	0.045	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
1,2,4-Trichlorobenzene	0.26	U	0.26	0.046	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
1,2,3-Trichlorobenzene	0.26	U	0.26	0.083	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
1,1,1-Trichloroethane	0.26	U	0.26	0.030	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
1,1,2-Trichloroethane	0.26	U	0.26	0.067	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Trichloroethene	0.26	U	0.26	0.067	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Trichlorofluoromethane	0.26	U	0.26	0.062	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
1,2,3-Trichloropropane	0.26	U	0.26	0.12	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
1,1,2-Trichloro-1,2,2-trifluoroethane	0.26	U	0.26	0.067	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
1,2,4-Trimethylbenzene	**1.4**		0.26	0.072	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
1,3,5-Trimethylbenzene	**0.43**		0.26	0.088	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Vinyl chloride	0.26	U	0.26	0.077	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40
Xylenes, Total	**5.3**		0.52	0.057	mg/Kg	☼	03/18/13 10:38	03/19/13 15:51	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*65 - 130*	*03/18/13 10:38*	*03/19/13 15:51*	*40*
Dibromofluoromethane	*99*		*65 - 130*	*03/18/13 10:38*	*03/19/13 15:51*	*40*
Toluene-d8 (Surr)	*97*		*65 - 130*	*03/18/13 10:38*	*03/19/13 15:51*	*40*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.016**	**J**	0.040	0.012	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Acenaphthylene	0.040	U	0.040	0.0093	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Acetophenone	**0.14**	**J**	0.40	0.073	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
2-Acetylaminofluorene	0.20	U	0.20	0.037	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
alpha,alpha-Dimethyl phenethylamine	1.6	U	1.6	0.48	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
4-Aminobiphenyl	0.20	U	0.20	0.082	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Aniline	0.82	U	0.82	0.36	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Anthracene	0.040	U	0.040	0.0095	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Aramite	0.20	U	0.20	0.040	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Benzenethiol	0.82	U	0.82	0.40	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Benzidine	0.82	U *	0.82	0.40	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Benzo[a]anthracene	**0.28**		0.040	0.0085	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Benzo[a]pyrene	**0.24**		0.040	0.0074	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Benzo[b]fluoranthene	**0.34**		0.040	0.0078	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Benzo[g,h,i]perylene	**0.19**		0.040	0.014	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Benzoic acid	**0.69**	**J**	2.0	0.56	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Benzo[k]fluoranthene	**0.14**		0.040	0.0096	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Benzyl alcohol	0.40	U	0.40	0.12	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Bis(2-chloroethoxy)methane	0.20	U	0.20	0.045	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Bis(2-chloroethyl)ether	0.20	U	0.20	0.060	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Bis(2-ethylhexyl) phthalate	0.20	U	0.20	0.054	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
4-Bromophenyl phenyl ether	0.20	U	0.20	0.045	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Butyl benzyl phthalate	0.20	U	0.20	0.051	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1

Client Sample ID: DDSB-11-0-2-20130312-01
Date Collected: 03/12/13 15:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-19
Matrix: Solid
Percent Solids: 81.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	0.40	U	0.40	0.093	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
4-Chloroaniline	0.82	U	0.82	0.12	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
4-Chloro-3-methylphenol	0.40	U	0.40	0.19	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
2-Chloronaphthalene	0.20	U	0.20	0.045	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
2-Chlorophenol	0.20	U	0.20	0.058	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
4-Chlorophenyl phenyl ether	0.20	U	0.20	0.064	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Chrysene	**0.30**		0.040	0.0091	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Diallate	0.20	U	0.20	0.040	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Dibenz(a,h)anthracene	**0.056**		0.040	0.011	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Dibenz[a,j]acridine	0.20	U	0.20	0.022	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Dibenzofuran	**0.50**		0.20	0.049	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
1,2-Dichlorobenzene	0.20	U	0.20	0.044	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
1,3-Dichlorobenzene	0.20	U	0.20	0.042	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
1,4-Dichlorobenzene	0.20	U	0.20	0.042	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
3,3'-Dichlorobenzidine	0.20	U	0.20	0.034	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
2,4-Dichlorophenol	0.40	U	0.40	0.12	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
2,6-Dichlorophenol	0.20	U	0.20	0.057	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Diethyl phthalate	0.20	U	0.20	0.067	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Diethylstilbestrol	0.82	U	0.82	0.10	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Dimethoate	0.40	U	0.40	0.091	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
7,12-Dimethylbenz(a)anthracene	0.20	U	0.20	0.049	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
3,3'-Dimethylbenzidine	0.82	U	0.82	0.21	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
2,4-Dimethylphenol	0.40	U	0.40	0.13	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Dimethyl phthalate	0.20	U	0.20	0.050	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Di-n-butyl phthalate	0.20	U	0.20	0.051	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
1,4-Dinitrobenzene	0.20	U	0.20	0.032	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
4,6-Dinitro-2-methylphenol	0.40	U	0.40	0.098	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
2,4-Dinitrophenol	0.82	U	0.82	0.21	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
2,4-Dinitrotoluene	0.20	U	0.20	0.062	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
2,6-Dinitrotoluene	0.20	U	0.20	0.048	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Di-n-octyl phthalate	0.20	U	0.20	0.082	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Dinoseb	0.40	U	0.40	0.10	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
1,4-Dioxane	0.82	U	0.82	0.27	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Diphenylamine	0.20	U	0.20	0.046	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
1,2-Diphenylhydrazine	0.20	U	0.20	0.051	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Disulfoton	0.40	U	0.40	0.061	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Ethyl 4,4'-Dichlorobenzilate	0.20	U	0.20	0.025	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Ethyl methanesulfonate	0.20	U	0.20	0.023	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Ethyl Parathion	0.40	U	0.40	0.11	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Famphur	0.40	U	0.40	0.066	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Fluoranthene	**0.45**		0.040	0.017	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Fluorene	0.040	U	0.040	0.0092	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Hexachlorobenzene	0.082	U	0.082	0.0080	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Hexachlorobutadiene	0.20	U	0.20	0.053	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Hexachlorocyclopentadiene	0.82	U	0.82	0.19	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Hexachloroethane	0.20	U	0.20	0.043	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Hexachlorophene	4.0	U	4.0	1.5	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Hexachloropropene	0.40	U	0.40	0.16	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Indeno[1,2,3-cd]pyrene	**0.15**		0.040	0.014	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1

Client Sample ID: DDSB-11-0-2-20130312-01
Date Collected: 03/12/13 15:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-19
Matrix: Solid
Percent Solids: 81.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	0.20	U	0.20	0.045	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Isosafrole	0.20	U	0.20	0.022	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Kepone	0.82	U	0.82	0.40	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Malathion	0.40	U	0.40	0.12	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
m-Dinitrobenzene	0.20	U	0.20	0.038	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Methapyrilene	1.6	U	1.6	0.21	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
3-Methylcholanthrene	0.20	U	0.20	0.017	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Methyl methanesulfonate	0.20	U	0.20	0.033	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
2-Methylnaphthalene	**2.2**		0.20	0.052	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Methyl parathion	0.40	U	0.40	0.11	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
2-Methylphenol	0.20	U	0.20	0.054	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
3 & 4 Methylphenol	0.20	U	0.20	0.077	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Naphthalene	**1.6**		0.040	0.0078	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
1,4-Naphthoquinone	0.82	U	0.82	0.40	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
1-Naphthylamine	0.20	U	0.20	0.031	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
2-Naphthylamine	0.20	U	0.20	0.055	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
2-Nitroaniline	0.20	U	0.20	0.073	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
3-Nitroaniline	0.40	U	0.40	0.078	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
4-Nitroaniline	0.40	U	0.40	0.083	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Nitrobenzene	0.040	U	0.040	0.013	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
5-Nitro-o-toluidine	0.20	U	0.20	0.038	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
2-Nitrophenol	0.40	U	0.40	0.063	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
4-Nitrophenol	0.82	U	0.82	0.22	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
4-Nitroquinoline-1-oxide	0.82	U	0.82	0.38	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
N-Nitrosodiethylamine	0.40	U	0.40	0.12	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
N-Nitrosodimethylamine	0.82	U	0.82	0.44	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
N-Nitrosodi-n-butylamine	0.20	U	0.20	0.072	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
N-Nitrosodi-n-propylamine	0.20	U	0.20	0.051	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
N-Nitrosodiphenylamine	0.20	U	0.20	0.055	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
N-Nitrosomethylethylamine	0.82	U	0.82	0.33	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
N-Nitrosomorpholine	0.20	U	0.20	0.038	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
N-Nitrosopiperidine	0.40	U	0.40	0.037	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
N-Nitrosopyrrolidine	0.20	U	0.20	0.046	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
o,o',o''-Triethylphosphorothioate	0.40	U	0.40	0.062	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
o-Toluidine	0.20	U	0.20	0.039	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
2,2'-oxybis[1-chloropropane]	0.20	U	0.20	0.045	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
p-Dimethylamino azobenzene	0.20	U	0.20	0.022	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Pentachlorobenzene	0.20	U	0.20	0.051	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Pentachloronitrobenzene	0.20	U	0.20	0.029	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Pentachlorophenol	0.82	U	0.82	0.21	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Phenacetin	0.20	U	0.20	0.042	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Phenanthrene	**1.0**		0.040	0.017	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Phenol	0.20	U	0.20	0.064	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Phorate	0.40	U	0.40	0.085	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
2-Picoline	0.40	U	0.40	0.15	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
p-Phenylene diamine	1.6	U	1.6	0.085	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Pronamide	0.20	U	0.20	0.033	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Pyrene	**0.49**		0.040	0.015	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Pyridine	0.82	U	0.82	0.48	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1

Client Sample ID: DDSB-11-0-2-20130312-01
Date Collected: 03/12/13 15:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-19
Matrix: Solid
Percent Solids: 81.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole	0.20	U	0.20	0.019	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Sulfotepp	0.40	U	0.40	0.081	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
sym-Trinitrobenzene	0.82	U	0.82	0.41	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
1,2,4,5-Tetrachlorobenzene	0.20	U	0.20	0.048	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
2,3,4,6-Tetrachlorophenol	0.20	U	0.20	0.055	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
Thionazin	0.40	U	0.40	0.090	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
1,2,4-Trichlorobenzene	0.20	U	0.20	0.046	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
2,4,5-Trichlorophenol	0.40	U	0.40	0.12	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1
2,4,6-Trichlorophenol	0.40	U	0.40	0.051	mg/Kg	☼	03/15/13 07:34	03/23/13 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*30 - 119*	*03/15/13 07:34*	*03/23/13 00:32*	*1*
2-Fluorophenol	*67*		*30 - 110*	*03/15/13 07:34*	*03/23/13 00:32*	*1*
Nitrobenzene-d5	*67*		*30 - 115*	*03/15/13 07:34*	*03/23/13 00:32*	*1*
Phenol-d5	*75*		*31 - 110*	*03/15/13 07:34*	*03/23/13 00:32*	*1*
Terphenyl-d14	*89*		*36 - 134*	*03/15/13 07:34*	*03/23/13 00:32*	*1*
2,4,6-Tribromophenol	*93*		*35 - 137*	*03/15/13 07:34*	*03/23/13 00:32*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.020	U	0.020	0.0083	mg/Kg	☼	03/15/13 07:24	03/26/13 10:39	10
alpha-BHC	0.020	U	0.020	0.0051	mg/Kg	☼	03/15/13 07:24	03/26/13 10:39	10
beta-BHC	0.020	U	0.020	0.0062	mg/Kg	☼	03/15/13 07:24	03/26/13 10:39	10
Chlordane (technical)	0.080	U	0.080	0.039	mg/Kg	☼	03/15/13 07:24	03/26/13 10:39	10
4,4'-DDD	0.020	U	0.020	0.0040	mg/Kg	☼	03/15/13 07:24	03/26/13 10:39	10
4,4'-DDE	0.020	U	0.020	0.0033	mg/Kg	☼	03/15/13 07:24	03/26/13 10:39	10
4,4'-DDT	0.020	U	0.020	0.010	mg/Kg	☼	03/15/13 07:24	03/26/13 10:39	10
delta-BHC	0.020	U	0.020	0.0063	mg/Kg	☼	03/15/13 07:24	03/26/13 10:39	10
Dieldrin	0.020	U	0.020	0.0027	mg/Kg	☼	03/15/13 07:24	03/26/13 10:39	10
Endosulfan I	0.020	U	0.020	0.0087	mg/Kg	☼	03/15/13 07:24	03/26/13 10:39	10
Endosulfan II	0.020	U	0.020	0.0032	mg/Kg	☼	03/15/13 07:24	03/26/13 10:39	10
Endosulfan sulfate	0.020	U	0.020	0.0036	mg/Kg	☼	03/15/13 07:24	03/26/13 10:39	10
Endrin	0.020	U	0.020	0.0028	mg/Kg	☼	03/15/13 07:24	03/26/13 10:39	10
Endrin aldehyde	0.020	U	0.020	0.0034	mg/Kg	☼	03/15/13 07:24	03/26/13 10:39	10
Endrin ketone	0.020	U	0.020	0.0045	mg/Kg	☼	03/15/13 07:24	03/26/13 10:39	10
gamma-BHC (Lindane)	0.020	U	0.020	0.0043	mg/Kg	☼	03/15/13 07:24	03/26/13 10:39	10
Heptachlor	0.020	U	0.020	0.0084	mg/Kg	☼	03/15/13 07:24	03/26/13 10:39	10
Heptachlor epoxide	0.020	U	0.020	0.0071	mg/Kg	☼	03/15/13 07:24	03/26/13 10:39	10
Isodrin	0.020	U	0.020	0.0093	mg/Kg	☼	03/15/13 07:24	03/26/13 10:39	10
Methoxychlor	0.099	U	0.099	0.0039	mg/Kg	☼	03/15/13 07:24	03/26/13 10:39	10
Toxaphene	0.20	U	0.20	0.084	mg/Kg	☼	03/15/13 07:24	03/26/13 10:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*43*	*X*	*56 - 128*	*03/15/13 07:24*	*03/26/13 10:39*	*10*
Tetrachloro-m-xylene	*47*		*45 - 112*	*03/15/13 07:24*	*03/26/13 10:39*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.020	U	0.020	0.0070	mg/Kg	☼	03/15/13 07:24	03/20/13 11:00	1
PCB-1221	0.020	U	0.020	0.0088	mg/Kg	☼	03/15/13 07:24	03/20/13 11:00	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-11-0-2-20130312-01
Date Collected: 03/12/13 15:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-19
Matrix: Solid
Percent Solids: 81.3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	0.020	U	0.020	0.0087	mg/Kg	☼	03/15/13 07:24	03/20/13 11:00	1
PCB-1242	0.020	U	0.020	0.0065	mg/Kg	☼	03/15/13 07:24	03/20/13 11:00	1
PCB-1248	0.020	U	0.020	0.0078	mg/Kg	☼	03/15/13 07:24	03/20/13 11:00	1
PCB-1254	0.020	U	0.020	0.0043	mg/Kg	☼	03/15/13 07:24	03/20/13 11:00	1
PCB-1260	**0.099**		0.020	0.0098	mg/Kg	☼	03/15/13 07:24	03/20/13 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*50 - 116*	*03/15/13 07:24*	*03/20/13 11:00*	*1*
DCB Decachlorobiphenyl	*65*		*48 - 142*	*03/15/13 07:24*	*03/20/13 11:00*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.081	U	0.081	0.0036	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Azinphos-methyl	0.081	U	0.081	0.018	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Bolstar	0.040	U	0.040	0.0058	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Carbophenthion	0.081	U	0.081	0.0065	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Chlorpyrifos	0.040	U	0.040	0.0083	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Chlorpyrifos-methyl	0.040	U	0.040	0.015	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Coumaphos	0.40	U	0.40	0.027	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Demeton-O	0.10	U	0.10	0.0032	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Demeton-S	0.10	U	0.10	0.0069	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Demeton, Total	0.10	U	0.10	0.0094	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Diazinon	0.040	U	0.040	0.0070	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Dichlofenthion	0.040	U	0.040	0.0052	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Dichlorvos	0.081	U	0.081	0.0078	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Dimethoate	0.081	U	0.081	0.011	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Disulfoton	0.081	U	0.081	0.020	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
EPN	0.040	U	0.040	0.0055	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Ethion	0.021	U	0.021	0.0065	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Ethoprop	0.021	U	0.021	0.0052	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Ethyl Parathion	0.040	U	0.040	0.0067	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Famphur	0.081	U	0.081	0.010	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Fensulfothion	0.40	U	0.40	0.015	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Fenthion	0.040	U	0.040	0.0058	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Malathion	0.040	U	0.040	0.010	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Merphos	0.040	U	0.040	0.013	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Methyl parathion	0.021	U	0.021	0.0066	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Mevinphos	0.081	U	0.081	0.0056	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Monochrotophos	0.40	U	0.40	0.056	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Naled	0.40	U	0.40	0.027	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Phorate	0.040	U	0.040	0.0066	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Ronnel	0.040	U	0.040	0.0052	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Simazine	0.081	U	0.081	0.0039	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Stirophos	0.040	U	0.040	0.0078	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Sulfotepp	0.021	U	0.021	0.011	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Terbufos	0.021	U	0.021	0.020	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Thionazin	0.040	U	0.040	0.012	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Tokuthion	0.040	U	0.040	0.0066	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1
Trichloronate	0.40	U	0.40	0.0093	mg/Kg	☼	03/16/13 09:29	04/02/13 09:36	1

Client Sample ID: DDSB-11-0-2-20130312-01
Date Collected: 03/12/13 15:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-19
Matrix: Solid
Percent Solids: 81.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate (TPP)	*70*		*35 - 134*	*03/16/13 09:29*	*04/02/13 09:36*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10000**		23	12	mg/Kg	☼	03/15/13 09:28	03/19/13 04:29	1
Antimony	2.3	U	2.3	0.62	mg/Kg	☼	03/15/13 09:28	03/19/13 04:29	1
Arsenic	**8.8**		2.3	0.69	mg/Kg	☼	03/15/13 09:28	03/19/13 04:29	1
Barium	**180**		1.2	0.35	mg/Kg	☼	03/15/13 09:28	03/19/13 04:29	1
Beryllium	**0.65**		0.47	0.023	mg/Kg	☼	03/15/13 09:28	03/19/13 04:29	1
Cadmium	0.59	U	0.59	0.12	mg/Kg	☼	03/15/13 09:28	03/19/13 04:29	1
Calcium	**410**		59	23	mg/Kg	☼	03/15/13 09:28	03/19/13 04:29	1
Chromium	**16**		1.2	0.59	mg/Kg	☼	03/15/13 09:28	03/19/13 04:29	1
Cobalt	**7.7**		1.2	0.14	mg/Kg	☼	03/15/13 09:28	03/19/13 04:29	1
Copper	**36**		2.9	1.3	mg/Kg	☼	03/15/13 09:28	03/19/13 04:29	1
Iron	**14000**		23	8.2	mg/Kg	☼	03/15/13 09:28	03/19/13 04:29	1
Lead	**120**		1.2	0.62	mg/Kg	☼	03/15/13 09:28	03/19/13 04:29	1
Magnesium	**210**		59	2.8	mg/Kg	☼	03/15/13 09:28	03/19/13 04:29	1
Manganese	**420**		1.2	0.35	mg/Kg	☼	03/15/13 09:28	03/19/13 04:29	1
Nickel	**6.6**		4.7	0.36	mg/Kg	☼	03/15/13 09:28	03/19/13 04:29	1
Potassium	**400**		120	9.4	mg/Kg	☼	03/15/13 09:28	03/19/13 04:29	1
Selenium	2.9	U	2.9	1.2	mg/Kg	☼	03/15/13 09:28	03/19/13 04:29	1
Silver	1.2	U	1.2	0.11	mg/Kg	☼	03/15/13 09:28	03/19/13 04:29	1
Sodium	230	U	230	96	mg/Kg	☼	03/15/13 09:28	03/19/13 04:29	1
Thallium	**1.2**	**J**	2.9	1.2	mg/Kg	☼	03/15/13 09:28	03/19/13 04:29	1
Vanadium	**30**		1.2	0.28	mg/Kg	☼	03/15/13 09:28	03/19/13 04:29	1
Zinc	**37**		2.3	1.4	mg/Kg	☼	03/15/13 09:28	03/19/13 04:29	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.53**		0.11	0.046	mg/Kg	☼	03/14/13 10:22	03/16/13 09:36	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	1.1	U	1.1	0.32	mg/Kg	☼	03/14/13 11:02	03/15/13 12:56	1
Cyanide, Total	**0.36**	**J**	0.59	0.25	mg/Kg	☼	03/14/13 08:30	03/15/13 09:55	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-11-12-14-20130312-01
Date Collected: 03/12/13 15:15
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-20
Matrix: Solid
Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.014	J	0.043	0.0095	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Benzene	0.0043	U	0.0043	0.00063	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Bromobenzene	0.0043	U	0.0043	0.0015	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Bromochloromethane	0.0043	U	0.0043	0.0028	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Bromodichloromethane	0.0043	U	0.0043	0.00083	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Bromoform	0.0043	U	0.0043	0.0013	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Bromomethane	0.0043	U	0.0043	0.0013	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
2-Butanone	0.021	U	0.021	0.0021	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Carbon disulfide	0.0043	U	0.0043	0.00095	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Carbon tetrachloride	0.0043	U	0.0043	0.00071	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Chlorobenzene	0.0043	U	0.0043	0.00083	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Chlorodibromomethane	0.0043	U	0.0043	0.0015	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Chloroethane	0.0043	U	0.0043	0.0023	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Chloroform	0.0043	U	0.0043	0.00095	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Chloromethane	0.0043	U	0.0043	0.00086	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
2-Chlorotoluene	0.0043	U	0.0043	0.0017	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
4-Chlorotoluene	0.0043	U	0.0043	0.0015	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
cis-1,2-Dichloroethene	0.0043	U	0.0043	0.0012	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
cis-1,3-Dichloropropene	0.0043	U	0.0043	0.00071	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Cyclohexane	0.0086	U	0.0086	0.0011	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
1,2-Dibromo-3-Chloropropane	0.0086	U	0.0086	0.0038	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
1,2-Dibromoethane	0.0043	U	0.0043	0.0013	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Dibromomethane	0.0043	U	0.0043	0.0015	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
1,2-Dichlorobenzene	0.0043	U	0.0043	0.0011	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
1,3-Dichlorobenzene	0.0043	U	0.0043	0.0014	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
1,4-Dichlorobenzene	0.0043	U	0.0043	0.00064	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Dichlorodifluoromethane	0.0043	U	0.0043	0.00081	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
1,1-Dichloroethane	0.0043	U	0.0043	0.00095	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
1,2-Dichloroethane	0.0043	U	0.0043	0.00095	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
1,1-Dichloroethene	0.0043	U	0.0043	0.0013	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
1,2-Dichloropropane	0.0043	U	0.0043	0.00074	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
2,2-Dichloropropane	0.0043	U	0.0043	0.00095	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
1,3-Dichloropropane	0.0043	U	0.0043	0.0015	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
1,1-Dichloropropene	0.0043	U	0.0043	0.00082	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Ethylbenzene	0.0043	U	0.0043	0.0011	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Hexachlorobutadiene	0.0043	U	0.0043	0.0027	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
2-Hexanone	0.021	U	0.021	0.0028	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Isopropylbenzene	0.0043	U	0.0043	0.0016	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Methyl acetate	0.0086	U	0.0086	0.0043	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Methylcyclohexane	0.0086	U	0.0086	0.00074	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Methylene Chloride	0.0043	U	0.0043	0.00084	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
4-Methyl-2-pentanone	0.021	U	0.021	0.0036	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Methyl tert-butyl ether	0.0086	U	0.0086	0.00086	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Naphthalene	0.0043	U	0.0043	0.0010	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
n-Butylbenzene	0.0043	U	0.0043	0.0021	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
N-Propylbenzene	0.0043	U	0.0043	0.0023	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
p-Isopropyltoluene	0.0043	U	0.0043	0.0019	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
sec-Butylbenzene	0.0043	U	0.0043	0.0018	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Styrene	0.0043	U	0.0043	0.00080	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1

Client Sample ID: DDSB-11-12-14-20130312-01
Date Collected: 03/12/13 15:15
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-20
Matrix: Solid
Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.0043	U	0.0043	0.0015	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
1,1,2,2-Tetrachloroethane	0.0043	U	0.0043	0.0014	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
1,1,1,2-Tetrachloroethane	0.0043	U	0.0043	0.0021	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Tetrachloroethene	0.0043	U	0.0043	0.0016	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Toluene	0.0043	U	0.0043	0.00072	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
trans-1,2-Dichloroethene	0.0043	U	0.0043	0.00054	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
trans-1,3-Dichloropropene	0.0043	U	0.0043	0.00075	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
1,2,4-Trichlorobenzene	0.0043	U	0.0043	0.00077	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
1,2,3-Trichlorobenzene	0.0043	U	0.0043	0.0014	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
1,1,1-Trichloroethane	0.0043	U	0.0043	0.00051	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
1,1,2-Trichloroethane	0.0043	U	0.0043	0.0011	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Trichloroethene	0.0043	U	0.0043	0.0011	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Trichlorofluoromethane	0.0043	U	0.0043	0.0010	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
1,2,3-Trichloropropane	0.0043	U	0.0043	0.0021	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0043	U	0.0043	0.0011	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
1,2,4-Trimethylbenzene	0.0043	U	0.0043	0.0012	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
1,3,5-Trimethylbenzene	0.0043	U	0.0043	0.0015	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Vinyl chloride	0.0043	U	0.0043	0.0013	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1
Xylenes, Total	0.0086	U	0.0086	0.00095	mg/Kg	☼	03/18/13 10:38	03/19/13 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*65 - 130*	*03/18/13 10:38*	*03/19/13 19:37*	*1*
Dibromofluoromethane	*92*		*65 - 130*	*03/18/13 10:38*	*03/19/13 19:37*	*1*
Toluene-d8 (Surr)	*99*		*65 - 130*	*03/18/13 10:38*	*03/19/13 19:37*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.038	U	0.038	0.011	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Acenaphthylene	0.038	U	0.038	0.0088	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Acetophenone	0.38	U	0.38	0.069	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
2-Acetylaminofluorene	0.19	U	0.19	0.036	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
alpha,alpha-Dimethyl phenethylamine	1.5	U	1.5	0.45	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
4-Aminobiphenyl	0.19	U	0.19	0.078	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Aniline	0.77	U	0.77	0.35	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Anthracene	0.038	U	0.038	0.0090	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Aramite	0.19	U	0.19	0.038	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Benzenethiol	0.77	U	0.77	0.38	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Benzidine	0.77	U *	0.77	0.38	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Benzo[a]anthracene	0.038	U	0.038	0.0080	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Benzo[a]pyrene	0.038	U	0.038	0.0070	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Benzo[b]fluoranthene	0.038	U	0.038	0.0074	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Benzo[g,h,i]perylene	0.038	U	0.038	0.013	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Benzoic acid	1.9	U	1.9	0.53	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Benzo[k]fluoranthene	0.038	U	0.038	0.0091	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Benzyl alcohol	0.38	U	0.38	0.11	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Bis(2-chloroethoxy)methane	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Bis(2-chloroethyl)ether	0.19	U	0.19	0.057	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Bis(2-ethylhexyl) phthalate	0.19	U	0.19	0.051	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
4-Bromophenyl phenyl ether	0.19	U	0.19	0.043	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Butyl benzyl phthalate	0.19	U	0.19	0.048	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-11-12-14-20130312-01
Date Collected: 03/12/13 15:15
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-20
Matrix: Solid
Percent Solids: 86.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	0.38	U	0.38	0.088	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
4-Chloroaniline	0.77	U	0.77	0.12	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
4-Chloro-3-methylphenol	0.38	U	0.38	0.18	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
2-Chloronaphthalene	0.19	U	0.19	0.043	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
2-Chlorophenol	0.19	U	0.19	0.055	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
4-Chlorophenyl phenyl ether	0.19	U	0.19	0.060	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Chrysene	0.038	U	0.038	0.0087	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Diallate	0.19	U	0.19	0.038	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Dibenz(a,h)anthracene	0.038	U	0.038	0.011	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Dibenz[a,j]acridine	0.19	U	0.19	0.021	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Dibenzofuran	0.19	U	0.19	0.046	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
1,2-Dichlorobenzene	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
1,3-Dichlorobenzene	0.19	U	0.19	0.040	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
1,4-Dichlorobenzene	0.19	U	0.19	0.040	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
3,3'-Dichlorobenzidine	0.19	U	0.19	0.032	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
2,4-Dichlorophenol	0.38	U	0.38	0.12	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
2,6-Dichlorophenol	0.19	U	0.19	0.055	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Diethyl phthalate	0.19	U	0.19	0.064	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Diethylstilbestrol	0.77	U	0.77	0.096	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Dimethoate	0.38	U	0.38	0.086	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
7,12-Dimethylbenz(a)anthracene	0.19	U	0.19	0.047	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
3,3'-Dimethylbenzidine	0.77	U	0.77	0.20	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
2,4-Dimethylphenol	0.38	U	0.38	0.12	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Dimethyl phthalate	0.19	U	0.19	0.048	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Di-n-butyl phthalate	0.19	U	0.19	0.048	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
1,4-Dinitrobenzene	0.19	U	0.19	0.030	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
4,6-Dinitro-2-methylphenol	0.38	U	0.38	0.093	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
2,4-Dinitrophenol	0.77	U	0.77	0.20	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
2,4-Dinitrotoluene	0.19	U	0.19	0.059	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
2,6-Dinitrotoluene	0.19	U	0.19	0.046	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Di-n-octyl phthalate	0.19	U	0.19	0.078	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Dinoseb	0.38	U	0.38	0.099	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
1,4-Dioxane	0.77	U	0.77	0.26	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Diphenylamine	0.19	U	0.19	0.044	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
1,2-Diphenylhydrazine	0.19	U	0.19	0.049	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Disulfoton	0.38	U	0.38	0.058	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Ethyl 4,4'-Dichlorobenzilate	0.19	U	0.19	0.024	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Ethyl methanesulfonate	0.19	U	0.19	0.022	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Ethyl Parathion	0.38	U	0.38	0.11	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Famphur	0.38	U	0.38	0.062	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Fluoranthene	0.038	U	0.038	0.016	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Fluorene	0.038	U	0.038	0.0087	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Hexachlorobenzene	0.077	U	0.077	0.0076	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Hexachlorobutadiene	0.19	U	0.19	0.050	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Hexachlorocyclopentadiene	0.77	U	0.77	0.18	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Hexachloroethane	0.19	U	0.19	0.041	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Hexachlorophene	3.8	U	3.8	1.4	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Hexachloropropene	0.38	U	0.38	0.15	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Indeno[1,2,3-cd]pyrene	0.038	U	0.038	0.013	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-11-12-14-20130312-01
Date Collected: 03/12/13 15:15
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-20
Matrix: Solid
Percent Solids: 86.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	0.19	U	0.19	0.043	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Isosafrole	0.19	U	0.19	0.021	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Kepone	0.77	U	0.77	0.38	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Malathion	0.38	U	0.38	0.11	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
m-Dinitrobenzene	0.19	U	0.19	0.036	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Methapyrilene	1.5	U	1.5	0.20	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
3-Methylcholanthrene	0.19	U	0.19	0.016	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Methyl methanesulfonate	0.19	U	0.19	0.031	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
2-Methylnaphthalene	0.19	U	0.19	0.050	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Methyl parathion	0.38	U	0.38	0.11	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
2-Methylphenol	0.19	U	0.19	0.051	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
3 & 4 Methylphenol	0.19	U	0.19	0.073	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Naphthalene	0.038	U	0.038	0.0074	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
1,4-Naphthoquinone	0.77	U	0.77	0.38	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
1-Naphthylamine	0.19	U	0.19	0.029	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
2-Naphthylamine	0.19	U	0.19	0.052	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
2-Nitroaniline	0.19	U	0.19	0.069	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
3-Nitroaniline	0.38	U	0.38	0.074	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
4-Nitroaniline	0.38	U	0.38	0.079	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Nitrobenzene	0.038	U	0.038	0.012	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
5-Nitro-o-toluidine	0.19	U	0.19	0.036	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
2-Nitrophenol	0.38	U	0.38	0.060	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
4-Nitrophenol	0.77	U	0.77	0.21	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
4-Nitroquinoline-1-oxide	0.77	U	0.77	0.36	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
N-Nitrosodiethylamine	0.38	U	0.38	0.11	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
N-Nitrosodimethylamine	0.77	U	0.77	0.42	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
N-Nitrosodi-n-butylamine	0.19	U	0.19	0.069	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
N-Nitrosodi-n-propylamine	0.19	U	0.19	0.049	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
N-Nitrosodiphenylamine	0.19	U	0.19	0.052	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
N-Nitrosomethylethylamine	0.77	U	0.77	0.31	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
N-Nitrosomorpholine	0.19	U	0.19	0.036	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
N-Nitrosopiperidine	0.38	U	0.38	0.035	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
N-Nitrosopyrrolidine	0.19	U	0.19	0.044	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
o,o',o''-Triethylphosphorothioate	0.38	U	0.38	0.059	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
o-Toluidine	0.19	U	0.19	0.037	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
2,2'-oxybis[1-chloropropane]	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
p-Dimethylamino azobenzene	0.19	U	0.19	0.021	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Pentachlorobenzene	0.19	U	0.19	0.048	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Pentachloronitrobenzene	0.19	U	0.19	0.027	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Pentachlorophenol	0.77	U	0.77	0.20	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Phenacetin	0.19	U	0.19	0.040	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Phenanthrene	0.038	U	0.038	0.016	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Phenol	0.19	U	0.19	0.061	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Phorate	0.38	U	0.38	0.081	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
2-Picoline	0.38	U	0.38	0.14	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
p-Phenylene diamine	1.5	U	1.5	0.081	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Pronamide	0.19	U	0.19	0.031	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Pyrene	0.038	U	0.038	0.014	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Pyridine	0.77	U	0.77	0.45	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1

Client Sample ID: DDSB-11-12-14-20130312-01
Date Collected: 03/12/13 15:15
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-20
Matrix: Solid
Percent Solids: 86.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole	0.19	U	0.19	0.018	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Sulfotepp	0.38	U	0.38	0.077	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
sym-Trinitrobenzene	0.77	U	0.77	0.39	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
1,2,4,5-Tetrachlorobenzene	0.19	U	0.19	0.045	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
2,3,4,6-Tetrachlorophenol	0.19	U	0.19	0.052	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
Thionazin	0.38	U	0.38	0.085	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
1,2,4-Trichlorobenzene	0.19	U	0.19	0.043	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
2,4,5-Trichlorophenol	0.38	U	0.38	0.11	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1
2,4,6-Trichlorophenol	0.38	U	0.38	0.048	mg/Kg	☼	03/15/13 07:34	03/23/13 00:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*30 - 119*	*03/15/13 07:34*	*03/23/13 00:50*	*1*
2-Fluorophenol	*72*		*30 - 110*	*03/15/13 07:34*	*03/23/13 00:50*	*1*
Nitrobenzene-d5	*69*		*30 - 115*	*03/15/13 07:34*	*03/23/13 00:50*	*1*
Phenol-d5	*66*		*31 - 110*	*03/15/13 07:34*	*03/23/13 00:50*	*1*
Terphenyl-d14	*85*		*36 - 134*	*03/15/13 07:34*	*03/23/13 00:50*	*1*
2,4,6-Tribromophenol	*84*		*35 - 137*	*03/15/13 07:34*	*03/23/13 00:50*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0019	U	0.0019	0.00078	mg/Kg	☼	03/15/13 07:24	03/26/13 12:43	1
alpha-BHC	0.0019	U	0.0019	0.00048	mg/Kg	☼	03/15/13 07:24	03/26/13 12:43	1
beta-BHC	0.0019	U	0.0019	0.00059	mg/Kg	☼	03/15/13 07:24	03/26/13 12:43	1
Chlordane (technical)	0.0076	U	0.0076	0.0037	mg/Kg	☼	03/15/13 07:24	03/26/13 12:43	1
4,4'-DDD	0.0019	U	0.0019	0.00038	mg/Kg	☼	03/15/13 07:24	03/26/13 12:43	1
4,4'-DDE	0.0019	U	0.0019	0.00031	mg/Kg	☼	03/15/13 07:24	03/26/13 12:43	1
4,4'-DDT	0.0019	U	0.0019	0.0010	mg/Kg	☼	03/15/13 07:24	03/26/13 12:43	1
delta-BHC	0.0019	U	0.0019	0.00060	mg/Kg	☼	03/15/13 07:24	03/26/13 12:43	1
Dieldrin	0.0019	U	0.0019	0.00026	mg/Kg	☼	03/15/13 07:24	03/26/13 12:43	1
Endosulfan I	0.0019	U	0.0019	0.00083	mg/Kg	☼	03/15/13 07:24	03/26/13 12:43	1
Endosulfan II	0.0019	U	0.0019	0.00031	mg/Kg	☼	03/15/13 07:24	03/26/13 12:43	1
Endosulfan sulfate	0.0019	U	0.0019	0.00035	mg/Kg	☼	03/15/13 07:24	03/26/13 12:43	1
Endrin	0.0019	U	0.0019	0.00026	mg/Kg	☼	03/15/13 07:24	03/26/13 12:43	1
Endrin aldehyde	0.0019	U	0.0019	0.00032	mg/Kg	☼	03/15/13 07:24	03/26/13 12:43	1
Endrin ketone	0.0019	U	0.0019	0.00043	mg/Kg	☼	03/15/13 07:24	03/26/13 12:43	1
gamma-BHC (Lindane)	0.0019	U	0.0019	0.00041	mg/Kg	☼	03/15/13 07:24	03/26/13 12:43	1
Heptachlor	0.0019	U	0.0019	0.00079	mg/Kg	☼	03/15/13 07:24	03/26/13 12:43	1
Heptachlor epoxide	0.0019	U	0.0019	0.00067	mg/Kg	☼	03/15/13 07:24	03/26/13 12:43	1
Isodrin	0.0019	U	0.0019	0.00088	mg/Kg	☼	03/15/13 07:24	03/26/13 12:43	1
Methoxychlor	0.0094	U	0.0094	0.00037	mg/Kg	☼	03/15/13 07:24	03/26/13 12:43	1
Toxaphene	0.019	U	0.019	0.0080	mg/Kg	☼	03/15/13 07:24	03/26/13 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*94*		*56 - 128*	*03/15/13 07:24*	*03/26/13 12:43*	*1*
Tetrachloro-m-xylene	*57*		*45 - 112*	*03/15/13 07:24*	*03/26/13 12:43*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.019	U	0.019	0.0067	mg/Kg	☼	03/15/13 07:24	03/20/13 11:14	1
PCB-1221	0.019	U	0.019	0.0083	mg/Kg	☼	03/15/13 07:24	03/20/13 11:14	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-11-12-14-20130312-01
Date Collected: 03/12/13 15:15
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-20
Matrix: Solid
Percent Solids: 86.1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	0.019	U	0.019	0.0082	mg/Kg	☼	03/15/13 07:24	03/20/13 11:14	1
PCB-1242	0.019	U	0.019	0.0062	mg/Kg	☼	03/15/13 07:24	03/20/13 11:14	1
PCB-1248	0.019	U	0.019	0.0074	mg/Kg	☼	03/15/13 07:24	03/20/13 11:14	1
PCB-1254	0.019	U	0.019	0.0041	mg/Kg	☼	03/15/13 07:24	03/20/13 11:14	1
PCB-1260	0.019	U	0.019	0.0093	mg/Kg	☼	03/15/13 07:24	03/20/13 11:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*50 - 116*	*03/15/13 07:24*	*03/20/13 11:14*	*1*
DCB Decachlorobiphenyl	*101*		*48 - 142*	*03/15/13 07:24*	*03/20/13 11:14*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.076	U	0.076	0.0034	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Azinphos-methyl	0.076	U	0.076	0.017	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Bolstar	0.038	U	0.038	0.0054	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Carbophenthion	0.076	U	0.076	0.0061	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Chlorpyrifos	0.038	U	0.038	0.0079	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Chlorpyrifos-methyl	0.038	U	0.038	0.014	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Coumaphos	0.38	U	0.38	0.025	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Demeton-O	0.096	U	0.096	0.0030	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Demeton-S	0.096	U	0.096	0.0065	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Demeton, Total	0.096	U	0.096	0.0089	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Diazinon	0.038	U	0.038	0.0066	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Dichlofenthion	0.038	U	0.038	0.0049	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Dichlorvos	0.076	U	0.076	0.0074	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Dimethoate	0.076	U	0.076	0.010	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Disulfoton	0.076	U	0.076	0.019	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
EPN	0.038	U	0.038	0.0052	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Ethion	0.020	U	0.020	0.0061	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Ethoprop	0.020	U	0.020	0.0049	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Ethyl Parathion	0.038	U	0.038	0.0064	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Famphur	0.076	U	0.076	0.0096	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Fensulfothion	0.38	U	0.38	0.014	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Fenthion	0.038	U	0.038	0.0054	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Malathion	0.038	U	0.038	0.0095	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Merphos	0.038	U	0.038	0.013	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Methyl parathion	0.020	U	0.020	0.0063	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Mevinphos	0.076	U	0.076	0.0053	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Monochrotophos	0.38	U	0.38	0.053	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Naled	0.38	U	0.38	0.025	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Phorate	0.038	U	0.038	0.0063	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Ronnel	0.038	U	0.038	0.0049	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Simazine	0.076	U	0.076	0.0037	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Stirophos	0.038	U	0.038	0.0074	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Sulfotepp	0.020	U	0.020	0.010	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Terbufos	0.020	U	0.020	0.019	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Thionazin	0.038	U	0.038	0.012	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Tokuthion	0.038	U	0.038	0.0063	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1
Trichloronate	0.38	U	0.38	0.0088	mg/Kg	☼	03/16/13 09:29	04/02/13 09:51	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-11-12-14-20130312-01
Date Collected: 03/12/13 15:15
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-20
Matrix: Solid
Percent Solids: 86.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate (TPP)	62		35 - 134	03/16/13 09:29	04/02/13 09:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		23	12	mg/Kg	☼	03/15/13 09:28	03/19/13 04:34	1
Antimony	2.3	U	2.3	0.62	mg/Kg	☼	03/15/13 09:28	03/19/13 04:34	1
Arsenic	**1.2**	**J**	2.3	0.69	mg/Kg	☼	03/15/13 09:28	03/19/13 04:34	1
Barium	**14**		1.2	0.35	mg/Kg	☼	03/15/13 09:28	03/19/13 04:34	1
Beryllium	**0.25**	**J**	0.46	0.023	mg/Kg	☼	03/15/13 09:28	03/19/13 04:34	1
Cadmium	0.58	U	0.58	0.12	mg/Kg	☼	03/15/13 09:28	03/19/13 04:34	1
Calcium	**330**		58	23	mg/Kg	☼	03/15/13 09:28	03/19/13 04:34	1
Chromium	**17**		1.2	0.58	mg/Kg	☼	03/15/13 09:28	03/19/13 04:34	1
Cobalt	**1.1**	**J**	1.2	0.14	mg/Kg	☼	03/15/13 09:28	03/19/13 04:34	1
Copper	**6.6**		2.9	1.3	mg/Kg	☼	03/15/13 09:28	03/19/13 04:34	1
Iron	**13000**		23	8.1	mg/Kg	☼	03/15/13 09:28	03/19/13 04:34	1
Lead	**6.6**		1.2	0.62	mg/Kg	☼	03/15/13 09:28	03/19/13 04:34	1
Magnesium	**380**		58	2.8	mg/Kg	☼	03/15/13 09:28	03/19/13 04:34	1
Manganese	**72**		1.2	0.35	mg/Kg	☼	03/15/13 09:28	03/19/13 04:34	1
Nickel	**3.5**	**J**	4.6	0.36	mg/Kg	☼	03/15/13 09:28	03/19/13 04:34	1
Potassium	**550**		120	9.3	mg/Kg	☼	03/15/13 09:28	03/19/13 04:34	1
Selenium	2.9	U	2.9	1.2	mg/Kg	☼	03/15/13 09:28	03/19/13 04:34	1
Silver	1.2	U	1.2	0.11	mg/Kg	☼	03/15/13 09:28	03/19/13 04:34	1
Sodium	230	U	230	95	mg/Kg	☼	03/15/13 09:28	03/19/13 04:34	1
Thallium	2.9	U	2.9	1.1	mg/Kg	☼	03/15/13 09:28	03/19/13 04:34	1
Vanadium	**35**		1.2	0.28	mg/Kg	☼	03/15/13 09:28	03/19/13 04:34	1
Zinc	**14**		2.3	1.4	mg/Kg	☼	03/15/13 09:28	03/19/13 04:34	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**	**J**	0.020	0.0084	mg/Kg	☼	03/14/13 10:22	03/15/13 19:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	1.0	U	1.0	0.31	mg/Kg	☼	03/14/13 11:02	03/15/13 12:56	1
Cyanide, Total	0.55	U	0.55	0.23	mg/Kg	☼	03/14/13 08:30	03/15/13 09:56	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-10-0-2-20130312-01
Date Collected: 03/12/13 16:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-21
Matrix: Solid
Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5.6**	**J ***	16	3.6	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Benzene	**5.7**		1.6	0.24	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Bromobenzene	1.6	U	1.6	0.55	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Bromochloromethane	1.6	U	1.6	1.1	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Bromodichloromethane	1.6	U	1.6	0.31	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Bromoform	1.6	U	1.6	0.48	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Bromomethane	1.6	U	1.6	0.48	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
2-Butanone	8.1	U	8.1	0.78	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Carbon disulfide	1.6	U	1.6	0.36	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Carbon tetrachloride	1.6	U	1.6	0.27	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Chlorobenzene	1.6	U	1.6	0.31	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Chlorodibromomethane	1.6	U	1.6	0.55	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Chloroethane	1.6	U	1.6	0.87	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Chloroform	1.6	U	1.6	0.36	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Chloromethane	1.6	U	1.6	0.32	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
2-Chlorotoluene	1.6	U	1.6	0.65	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
4-Chlorotoluene	1.6	U	1.6	0.55	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
cis-1,2-Dichloroethene	1.6	U	1.6	0.45	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
cis-1,3-Dichloropropene	1.6	U *	1.6	0.27	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Cyclohexane	**17**		3.2	0.42	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
1,2-Dibromo-3-Chloropropane	3.2	U	3.2	1.4	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
1,2-Dibromoethane	1.6	U	1.6	0.48	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Dibromomethane	1.6	U	1.6	0.55	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
1,2-Dichlorobenzene	1.6	U	1.6	0.42	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
1,3-Dichlorobenzene	1.6	U	1.6	0.52	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
1,4-Dichlorobenzene	1.6	U	1.6	0.24	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Dichlorodifluoromethane	1.6	U	1.6	0.30	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
1,1-Dichloroethane	1.6	U	1.6	0.36	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
1,2-Dichloroethane	1.6	U	1.6	0.36	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
1,1-Dichloroethene	1.6	U	1.6	0.48	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
1,2-Dichloropropane	1.6	U	1.6	0.28	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
2,2-Dichloropropane	1.6	U	1.6	0.36	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
1,3-Dichloropropane	1.6	U	1.6	0.58	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
1,1-Dichloropropene	1.6	U	1.6	0.31	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Ethylbenzene	**2.6**		1.6	0.42	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Hexachlorobutadiene	1.6	U	1.6	1.0	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
2-Hexanone	8.1	U	8.1	1.1	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Isopropylbenzene	**1.0**	**J**	1.6	0.61	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Methyl acetate	3.2	U	3.2	1.6	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Methylcyclohexane	**39**		3.2	0.28	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Methylene Chloride	1.6	U	1.6	0.32	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
4-Methyl-2-pentanone	8.1	U	8.1	1.4	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Methyl tert-butyl ether	3.2	U	3.2	0.32	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Naphthalene	**14**		1.6	0.39	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
n-Butylbenzene	**0.89**	**J**	1.6	0.78	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
N-Propylbenzene	**1.3**	**J**	1.6	0.87	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
p-Isopropyltoluene	**0.73**	**J**	1.6	0.71	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
sec-Butylbenzene	1.6	U	1.6	0.68	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Styrene	1.6	U	1.6	0.30	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200

Client Sample ID: DDSB-10-0-2-20130312-01
Date Collected: 03/12/13 16:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-21
Matrix: Solid
Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	1.6	U	1.6	0.58	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
1,1,2,2-Tetrachloroethane	1.6	U	1.6	0.52	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
1,1,1,2-Tetrachloroethane	1.6	U	1.6	0.78	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Tetrachloroethene	1.6	U	1.6	0.61	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Toluene	**27**		1.6	0.27	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
trans-1,2-Dichloroethene	1.6	U	1.6	0.20	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
trans-1,3-Dichloropropene	1.6	U	1.6	0.28	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
1,2,4-Trichlorobenzene	1.6	U	1.6	0.29	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
1,2,3-Trichlorobenzene	1.6	U	1.6	0.52	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
1,1,1-Trichloroethane	1.6	U	1.6	0.19	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
1,1,2-Trichloroethane	1.6	U	1.6	0.42	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Trichloroethene	1.6	U	1.6	0.42	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Trichlorofluoromethane	1.6	U	1.6	0.39	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
1,2,3-Trichloropropane	1.6	U	1.6	0.78	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
1,1,2-Trichloro-1,2,2-trifluoroethane	1.6	U	1.6	0.42	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
1,2,4-Trimethylbenzene	**7.7**		1.6	0.45	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
1,3,5-Trimethylbenzene	**2.4**		1.6	0.55	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Vinyl chloride	1.6	U	1.6	0.48	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200
Xylenes, Total	**34**		3.2	0.36	mg/Kg	☼	03/18/13 10:38	03/22/13 15:54	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*65 - 130*	*03/18/13 10:38*	*03/22/13 15:54*	*200*
Dibromofluoromethane	*90*		*65 - 130*	*03/18/13 10:38*	*03/22/13 15:54*	*200*
Toluene-d8 (Surr)	*91*		*65 - 130*	*03/18/13 10:38*	*03/22/13 15:54*	*200*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.025**	**J**	0.037	0.011	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Acenaphthylene	0.037	U	0.037	0.0085	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Acetophenone	**0.26**	**J**	0.37	0.067	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
2-Acetylaminofluorene	0.19	U	0.19	0.034	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
alpha,alpha-Dimethyl phenethylamine	1.5	U	1.5	0.44	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
4-Aminobiphenyl	0.19	U	0.19	0.075	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Aniline	0.75	U	0.75	0.33	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Anthracene	**0.070**		0.037	0.0087	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Aramite	0.19	U	0.19	0.037	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Benzenethiol	0.75	U	0.75	0.37	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Benzidine	0.75	U *	0.75	0.37	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Benzo[a]anthracene	**0.39**		0.037	0.0077	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Benzo[a]pyrene	**0.22**		0.037	0.0067	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Benzo[b]fluoranthene	**0.32**		0.037	0.0072	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Benzo[g,h,i]perylene	**0.18**		0.037	0.012	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Benzoic acid	**1.0**	**J**	1.9	0.51	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Benzo[k]fluoranthene	**0.13**		0.037	0.0088	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Benzyl alcohol	0.37	U	0.37	0.11	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Bis(2-chloroethoxy)methane	0.19	U	0.19	0.041	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Bis(2-chloroethyl)ether	0.19	U	0.19	0.055	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Bis(2-ethylhexyl) phthalate	0.19	U	0.19	0.049	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
4-Bromophenyl phenyl ether	0.19	U	0.19	0.041	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Butyl benzyl phthalate	0.19	U	0.19	0.046	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-10-0-2-20130312-01
Date Collected: 03/12/13 16:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-21
Matrix: Solid
Percent Solids: 86.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	0.37	U	0.37	0.085	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
4-Chloroaniline	0.75	U	0.75	0.11	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
4-Chloro-3-methylphenol	0.37	U	0.37	0.18	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
2-Chloronaphthalene	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
2-Chlorophenol	0.19	U	0.19	0.053	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
4-Chlorophenyl phenyl ether	0.19	U	0.19	0.058	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Chrysene	**0.44**		0.037	0.0083	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Diallate	0.19	U	0.19	0.037	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Dibenz(a,h)anthracene	**0.056**		0.037	0.010	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Dibenz[a,j]acridine	0.19	U	0.19	0.020	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Dibenzofuran	**1.5**		0.19	0.044	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
1,2-Dichlorobenzene	0.19	U	0.19	0.040	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
1,3-Dichlorobenzene	0.19	U	0.19	0.039	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
1,4-Dichlorobenzene	0.19	U	0.19	0.039	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
3,3'-Dichlorobenzidine	0.19	U	0.19	0.031	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
2,4-Dichlorophenol	0.37	U	0.37	0.11	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
2,6-Dichlorophenol	0.19	U	0.19	0.053	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Diethyl phthalate	0.19	U	0.19	0.062	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Diethylstilbestrol	0.75	U	0.75	0.092	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Dimethoate	0.37	U	0.37	0.083	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
7,12-Dimethylbenz(a)anthracene	0.19	U	0.19	0.045	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
3,3'-Dimethylbenzidine	0.75	U	0.75	0.19	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
2,4-Dimethylphenol	0.37	U	0.37	0.12	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Dimethyl phthalate	0.19	U	0.19	0.046	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Di-n-butyl phthalate	0.19	U	0.19	0.047	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
1,4-Dinitrobenzene	0.19	U	0.19	0.029	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
4,6-Dinitro-2-methylphenol	0.37	U	0.37	0.090	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
2,4-Dinitrophenol	0.75	U	0.75	0.19	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
2,4-Dinitrotoluene	0.19	U	0.19	0.057	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
2,6-Dinitrotoluene	0.19	U	0.19	0.044	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Di-n-octyl phthalate	0.19	U	0.19	0.075	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Dinoseb	0.37	U	0.37	0.095	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
1,4-Dioxane	0.75	U	0.75	0.25	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Diphenylamine	0.19	U	0.19	0.043	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
1,2-Diphenylhydrazine	0.19	U	0.19	0.047	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Disulfoton	0.37	U	0.37	0.056	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Ethyl 4,4'-Dichlorobenzilate	0.19	U	0.19	0.023	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Ethyl methanesulfonate	0.19	U	0.19	0.021	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Ethyl Parathion	0.37	U	0.37	0.10	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Famphur	0.37	U	0.37	0.060	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Fluoranthene	**0.49**		0.037	0.015	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Fluorene	0.037	U	0.037	0.0084	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Hexachlorobenzene	0.075	U	0.075	0.0073	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Hexachlorobutadiene	0.19	U	0.19	0.048	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Hexachlorocyclopentadiene	0.75	U	0.75	0.17	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Hexachloroethane	0.19	U	0.19	0.039	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Hexachlorophene	3.7	U	3.7	1.4	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Hexachloropropene	0.37	U	0.37	0.15	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Indeno[1,2,3-cd]pyrene	**0.10**		0.037	0.012	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-10-0-2-20130312-01
Date Collected: 03/12/13 16:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-21
Matrix: Solid
Percent Solids: 86.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	0.19	U	0.19	0.041	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Isosafrole	0.19	U	0.19	0.020	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Kepone	0.75	U	0.75	0.37	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Malathion	0.37	U	0.37	0.11	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
m-Dinitrobenzene	0.19	U	0.19	0.035	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Methapyrilene	1.5	U	1.5	0.19	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
3-Methylcholanthrene	0.19	U	0.19	0.016	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Methyl methanesulfonate	0.19	U	0.19	0.030	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Methyl parathion	0.37	U	0.37	0.10	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
2-Methylphenol	0.19	U	0.19	0.049	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
3 & 4 Methylphenol	0.19	U	0.19	0.070	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Naphthalene	0.037	U	0.037	0.0071	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
1,4-Naphthoquinone	0.75	U	0.75	0.37	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
1-Naphthylamine	0.19	U	0.19	0.028	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
2-Naphthylamine	0.19	U	0.19	0.050	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
2-Nitroaniline	0.19	U	0.19	0.067	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
3-Nitroaniline	0.37	U	0.37	0.071	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
4-Nitroaniline	0.37	U	0.37	0.076	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Nitrobenzene	0.037	U	0.037	0.011	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
5-Nitro-o-toluidine	0.19	U	0.19	0.035	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
2-Nitrophenol	0.37	U	0.37	0.058	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
4-Nitrophenol	0.75	U	0.75	0.20	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
4-Nitroquinoline-1-oxide	0.75	U	0.75	0.35	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
N-Nitrosodiethylamine	0.37	U	0.37	0.11	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
N-Nitrosodimethylamine	0.75	U	0.75	0.40	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
N-Nitrosodi-n-butylamine	0.19	U	0.19	0.066	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
N-Nitrosodi-n-propylamine	0.19	U	0.19	0.047	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
N-Nitrosodiphenylamine	0.19	U	0.19	0.050	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
N-Nitrosomethylethylamine	0.75	U	0.75	0.30	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
N-Nitrosomorpholine	0.19	U	0.19	0.034	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
N-Nitrosopiperidine	0.37	U	0.37	0.034	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
N-Nitrosopyrrolidine	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
o,o',o''-Triethylphosphorothioate	0.37	U	0.37	0.057	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
o-Toluidine	0.19	U	0.19	0.036	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
2,2'-oxybis[1-chloropropane]	0.19	U	0.19	0.041	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
p-Dimethylamino azobenzene	0.19	U	0.19	0.020	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Pentachlorobenzene	0.19	U	0.19	0.047	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Pentachloronitrobenzene	0.19	U	0.19	0.026	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Pentachlorophenol	0.75	U	0.75	0.19	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Phenacetin	0.19	U	0.19	0.038	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Phenanthrene	**2.4**		0.037	0.015	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Phenol	0.19	U	0.19	0.059	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Phorate	0.37	U	0.37	0.078	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
2-Picoline	0.37	U	0.37	0.14	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
p-Phenylene diamine	1.5	U	1.5	0.078	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Pronamide	0.19	U	0.19	0.030	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Pyrene	**0.53**		0.037	0.013	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Pyridine	0.75	U	0.75	0.44	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Safrole	0.19	U	0.19	0.018	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-10-0-2-20130312-01
Date Collected: 03/12/13 16:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-21
Matrix: Solid
Percent Solids: 86.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfotepp	0.37	U	0.37	0.074	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
sym-Trinitrobenzene	0.75	U	0.75	0.38	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
1,2,4,5-Tetrachlorobenzene	0.19	U	0.19	0.044	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
2,3,4,6-Tetrachlorophenol	0.19	U	0.19	0.051	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
Thionazin	0.37	U	0.37	0.082	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
1,2,4-Trichlorobenzene	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
2,4,5-Trichlorophenol	0.37	U	0.37	0.11	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1
2,4,6-Trichlorophenol	0.37	U	0.37	0.046	mg/Kg	☼	03/15/13 07:34	03/23/13 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*30 - 119*	*03/15/13 07:34*	*03/23/13 01:09*	*1*
2-Fluorophenol	*77*		*30 - 110*	*03/15/13 07:34*	*03/23/13 01:09*	*1*
Nitrobenzene-d5	*78*		*30 - 115*	*03/15/13 07:34*	*03/23/13 01:09*	*1*
Phenol-d5	*83*		*31 - 110*	*03/15/13 07:34*	*03/23/13 01:09*	*1*
Terphenyl-d14	*96*		*36 - 134*	*03/15/13 07:34*	*03/23/13 01:09*	*1*
2,4,6-Tribromophenol	*85*		*35 - 137*	*03/15/13 07:34*	*03/23/13 01:09*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**7.3**		0.93	0.24	mg/Kg	☼	03/15/13 07:34	03/25/13 17:04	5

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.019	U	0.019	0.0079	mg/Kg	☼	03/15/13 07:24	03/26/13 13:04	10
alpha-BHC	0.019	U	0.019	0.0048	mg/Kg	☼	03/15/13 07:24	03/26/13 13:04	10
beta-BHC	0.019	U	0.019	0.0059	mg/Kg	☼	03/15/13 07:24	03/26/13 13:04	10
Chlordane (technical)	0.077	U	0.077	0.037	mg/Kg	☼	03/15/13 07:24	03/26/13 13:04	10
4,4'-DDD	0.019	U	0.019	0.0038	mg/Kg	☼	03/15/13 07:24	03/26/13 13:04	10
4,4'-DDE	0.019	U	0.019	0.0032	mg/Kg	☼	03/15/13 07:24	03/26/13 13:04	10
4,4'-DDT	0.019	U	0.019	0.010	mg/Kg	☼	03/15/13 07:24	03/26/13 13:04	10
delta-BHC	0.019	U	0.019	0.0060	mg/Kg	☼	03/15/13 07:24	03/26/13 13:04	10
Dieldrin	0.019	U	0.019	0.0026	mg/Kg	☼	03/15/13 07:24	03/26/13 13:04	10
Endosulfan I	0.019	U	0.019	0.0084	mg/Kg	☼	03/15/13 07:24	03/26/13 13:04	10
Endosulfan II	0.019	U	0.019	0.0031	mg/Kg	☼	03/15/13 07:24	03/26/13 13:04	10
Endosulfan sulfate	0.019	U	0.019	0.0035	mg/Kg	☼	03/15/13 07:24	03/26/13 13:04	10
Endrin	0.019	U	0.019	0.0026	mg/Kg	☼	03/15/13 07:24	03/26/13 13:04	10
Endrin aldehyde	0.019	U	0.019	0.0032	mg/Kg	☼	03/15/13 07:24	03/26/13 13:04	10
Endrin ketone	0.019	U	0.019	0.0043	mg/Kg	☼	03/15/13 07:24	03/26/13 13:04	10
gamma-BHC (Lindane)	0.019	U	0.019	0.0041	mg/Kg	☼	03/15/13 07:24	03/26/13 13:04	10
Heptachlor	0.019	U	0.019	0.0080	mg/Kg	☼	03/15/13 07:24	03/26/13 13:04	10
Heptachlor epoxide	0.019	U	0.019	0.0068	mg/Kg	☼	03/15/13 07:24	03/26/13 13:04	10
Isodrin	0.019	U	0.019	0.0089	mg/Kg	☼	03/15/13 07:24	03/26/13 13:04	10
Methoxychlor	0.095	U	0.095	0.0037	mg/Kg	☼	03/15/13 07:24	03/26/13 13:04	10
Toxaphene	0.19	U	0.19	0.080	mg/Kg	☼	03/15/13 07:24	03/26/13 13:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*52*	*X*	*56 - 128*	*03/15/13 07:24*	*03/26/13 13:04*	*10*
Tetrachloro-m-xylene	*72*		*45 - 112*	*03/15/13 07:24*	*03/26/13 13:04*	*10*

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-10-0-2-20130312-01
Date Collected: 03/12/13 16:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-21
Matrix: Solid
Percent Solids: 86.3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.019	U	0.019	0.0067	mg/Kg	☼	03/15/13 07:24	03/20/13 11:28	1
PCB-1221	0.019	U	0.019	0.0084	mg/Kg	☼	03/15/13 07:24	03/20/13 11:28	1
PCB-1232	0.019	U	0.019	0.0083	mg/Kg	☼	03/15/13 07:24	03/20/13 11:28	1
PCB-1242	0.019	U	0.019	0.0063	mg/Kg	☼	03/15/13 07:24	03/20/13 11:28	1
PCB-1248	0.019	U	0.019	0.0075	mg/Kg	☼	03/15/13 07:24	03/20/13 11:28	1
PCB-1254	0.019	U	0.019	0.0041	mg/Kg	☼	03/15/13 07:24	03/20/13 11:28	1
PCB-1260	0.019	U	0.019	0.0094	mg/Kg	☼	03/15/13 07:24	03/20/13 11:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*50 - 116*	*03/15/13 07:24*	*03/20/13 11:28*	*1*
DCB Decachlorobiphenyl	*86*		*48 - 142*	*03/15/13 07:24*	*03/20/13 11:28*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.076	U	0.076	0.0034	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Azinphos-methyl	0.076	U	0.076	0.017	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Bolstar	0.038	U	0.038	0.0054	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Carbophenthion	0.076	U	0.076	0.0061	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Chlorpyrifos	0.038	U	0.038	0.0079	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Chlorpyrifos-methyl	0.038	U	0.038	0.014	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Coumaphos	0.38	U	0.38	0.025	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Demeton-O	0.096	U	0.096	0.0030	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Demeton-S	0.096	U	0.096	0.0065	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Demeton, Total	0.096	U	0.096	0.0089	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Diazinon	0.038	U	0.038	0.0066	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Dichlofenthion	0.038	U	0.038	0.0049	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Dichlorvos	0.076	U	0.076	0.0074	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Dimethoate	0.076	U	0.076	0.010	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Disulfoton	0.076	U	0.076	0.019	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
EPN	0.038	U	0.038	0.0052	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Ethion	0.020	U	0.020	0.0061	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Ethoprop	0.020	U	0.020	0.0049	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Ethyl Parathion	0.038	U	0.038	0.0064	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Famphur	0.076	U	0.076	0.0096	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Fensulfothion	0.38	U	0.38	0.014	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Fenthion	0.038	U	0.038	0.0054	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Malathion	0.038	U	0.038	0.0095	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Merphos	0.038	U	0.038	0.013	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Methyl parathion	0.020	U	0.020	0.0062	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Mevinphos	0.076	U	0.076	0.0053	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Monochrotophos	0.38	U	0.38	0.053	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Naled	0.38	U	0.38	0.025	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Phorate	0.038	U	0.038	0.0062	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Ronnel	0.038	U	0.038	0.0049	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Simazine	0.076	U	0.076	0.0037	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Stirophos	0.038	U	0.038	0.0074	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Sulfotepp	0.020	U	0.020	0.0099	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Terbufos	0.020	U	0.020	0.019	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Thionazin	0.038	U	0.038	0.012	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1
Tokuthion	0.038	U	0.038	0.0062	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-10-0-2-20130312-01
Date Collected: 03/12/13 16:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-21
Matrix: Solid
Percent Solids: 86.3

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloronate	0.38	U	0.38	0.0088	mg/Kg	☼	03/16/13 09:29	04/02/13 10:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate (TPP)	*54*		*35 - 134*	*03/16/13 09:29*	*04/02/13 10:05*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9700**		22	11	mg/Kg	☼	03/15/13 09:28	03/19/13 04:40	1
Antimony	2.2	U	2.2	0.59	mg/Kg	☼	03/15/13 09:28	03/19/13 04:40	1
Arsenic	**6.9**		2.2	0.66	mg/Kg	☼	03/15/13 09:28	03/19/13 04:40	1
Barium	**62**		1.1	0.33	mg/Kg	☼	03/15/13 09:28	03/19/13 04:40	1
Beryllium	**0.52**		0.45	0.022	mg/Kg	☼	03/15/13 09:28	03/19/13 04:40	1
Cadmium	0.56	U	0.56	0.11	mg/Kg	☼	03/15/13 09:28	03/19/13 04:40	1
Calcium	**450**		56	22	mg/Kg	☼	03/15/13 09:28	03/19/13 04:40	1
Chromium	**20**		1.1	0.56	mg/Kg	☼	03/15/13 09:28	03/19/13 04:40	1
Cobalt	**2.8**		1.1	0.13	mg/Kg	☼	03/15/13 09:28	03/19/13 04:40	1
Copper	**17**		2.8	1.2	mg/Kg	☼	03/15/13 09:28	03/19/13 04:40	1
Iron	**17000**		22	7.8	mg/Kg	☼	03/15/13 09:28	03/19/13 04:40	1
Lead	**32**		1.1	0.59	mg/Kg	☼	03/15/13 09:28	03/19/13 04:40	1
Magnesium	**200**		56	2.7	mg/Kg	☼	03/15/13 09:28	03/19/13 04:40	1
Manganese	**110**		1.1	0.33	mg/Kg	☼	03/15/13 09:28	03/19/13 04:40	1
Nickel	**7.1**		4.5	0.35	mg/Kg	☼	03/15/13 09:28	03/19/13 04:40	1
Potassium	**420**		110	8.9	mg/Kg	☼	03/15/13 09:28	03/19/13 04:40	1
Selenium	2.8	U	2.8	1.1	mg/Kg	☼	03/15/13 09:28	03/19/13 04:40	1
Silver	1.1	U	1.1	0.11	mg/Kg	☼	03/15/13 09:28	03/19/13 04:40	1
Sodium	220	U	220	91	mg/Kg	☼	03/15/13 09:28	03/19/13 04:40	1
Thallium	2.8	U	2.8	1.1	mg/Kg	☼	03/15/13 09:28	03/19/13 04:40	1
Vanadium	**36**		1.1	0.27	mg/Kg	☼	03/15/13 09:28	03/19/13 04:40	1
Zinc	**32**		2.2	1.3	mg/Kg	☼	03/15/13 09:28	03/19/13 04:40	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.094**		0.020	0.0082	mg/Kg	☼	03/14/13 10:22	03/15/13 19:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.97	U	0.97	0.29	mg/Kg	☼	03/14/13 11:02	03/15/13 12:56	1
Cyanide, Total	0.57	U	0.57	0.24	mg/Kg	☼	03/14/13 08:30	03/15/13 09:57	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-10-12-14-20130312-01
Date Collected: 03/12/13 16:15
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-22
Matrix: Solid
Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.044	U *	0.044	0.0097	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Benzene	0.0044	U	0.0044	0.00064	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Bromobenzene	0.0044	U	0.0044	0.0015	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Bromochloromethane	0.0044	U	0.0044	0.0029	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Bromodichloromethane	0.0044	U	0.0044	0.00086	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Bromoform	0.0044	U	0.0044	0.0013	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Bromomethane	0.0044	U	0.0044	0.0013	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
2-Butanone	0.022	U	0.022	0.0021	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Carbon disulfide	0.0044	U	0.0044	0.00097	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Carbon tetrachloride	0.0044	U	0.0044	0.00073	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Chlorobenzene	0.0044	U	0.0044	0.00085	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Chlorodibromomethane	0.0044	U	0.0044	0.0015	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Chloroethane	0.0044	U	0.0044	0.0024	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Chloroform	0.0044	U	0.0044	0.00097	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Chloromethane	0.0044	U	0.0044	0.00088	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
2-Chlorotoluene	0.0044	U	0.0044	0.0018	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
4-Chlorotoluene	0.0044	U	0.0044	0.0015	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
cis-1,2-Dichloroethene	0.0044	U	0.0044	0.0012	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
cis-1,3-Dichloropropene	0.0044	U	0.0044	0.00073	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Cyclohexane	0.0088	U	0.0088	0.0011	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
1,2-Dibromo-3-Chloropropane	0.0088	U	0.0088	0.0039	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
1,2-Dibromoethane	0.0044	U	0.0044	0.0013	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Dibromomethane	0.0044	U	0.0044	0.0015	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
1,2-Dichlorobenzene	0.0044	U	0.0044	0.0011	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
1,3-Dichlorobenzene	0.0044	U	0.0044	0.0014	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
1,4-Dichlorobenzene	0.0044	U	0.0044	0.00065	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Dichlorodifluoromethane	0.0044	U	0.0044	0.00083	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
1,1-Dichloroethane	0.0044	U	0.0044	0.00097	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
1,2-Dichloroethane	0.0044	U	0.0044	0.00097	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
1,1-Dichloroethene	0.0044	U	0.0044	0.0013	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
1,2-Dichloropropane	0.0044	U	0.0044	0.00076	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
2,2-Dichloropropane	0.0044	U	0.0044	0.00097	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
1,3-Dichloropropane	0.0044	U	0.0044	0.0016	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
1,1-Dichloropropene	0.0044	U	0.0044	0.00084	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Ethylbenzene	0.0044	U	0.0044	0.0011	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Hexachlorobutadiene	0.0044	U	0.0044	0.0027	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
2-Hexanone	0.022	U *	0.022	0.0029	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Isopropylbenzene	0.0044	U	0.0044	0.0017	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Methyl acetate	0.0088	U	0.0088	0.0044	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Methylcyclohexane	0.0088	U	0.0088	0.00076	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Methylene Chloride	0.0044	U	0.0044	0.00087	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
4-Methyl-2-pentanone	0.022	U	0.022	0.0037	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Methyl tert-butyl ether	0.0088	U	0.0088	0.00088	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Naphthalene	0.0044	U	0.0044	0.0011	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
n-Butylbenzene	0.0044	U	0.0044	0.0021	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
N-Propylbenzene	0.0044	U	0.0044	0.0024	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
p-Isopropyltoluene	0.0044	U	0.0044	0.0019	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
sec-Butylbenzene	0.0044	U	0.0044	0.0019	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Styrene	0.0044	U	0.0044	0.00082	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1

Client Sample ID: DDSB-10-12-14-20130312-01
Date Collected: 03/12/13 16:15
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-22
Matrix: Solid
Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.0044	U	0.0044	0.0016	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
1,1,2,2-Tetrachloroethane	0.0044	U	0.0044	0.0014	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
1,1,1,2-Tetrachloroethane	0.0044	U	0.0044	0.0021	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Tetrachloroethene	0.0044	U	0.0044	0.0017	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Toluene	0.0044	U	0.0044	0.00074	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
trans-1,2-Dichloroethene	0.0044	U	0.0044	0.00056	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
trans-1,3-Dichloropropene	0.0044	U	0.0044	0.00077	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
1,2,4-Trichlorobenzene	0.0044	U	0.0044	0.00079	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
1,2,3-Trichlorobenzene	0.0044	U	0.0044	0.0014	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
1,1,1-Trichloroethane	0.0044	U	0.0044	0.00052	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
1,1,2-Trichloroethane	0.0044	U	0.0044	0.0011	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Trichloroethene	0.0044	U	0.0044	0.0011	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Trichlorofluoromethane	0.0044	U	0.0044	0.0011	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
1,2,3-Trichloropropane	0.0044	U	0.0044	0.0021	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0044	U	0.0044	0.0011	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
1,2,4-Trimethylbenzene	0.0044	U	0.0044	0.0012	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
1,3,5-Trimethylbenzene	0.0044	U	0.0044	0.0015	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Vinyl chloride	0.0044	U	0.0044	0.0013	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1
Xylenes, Total	0.0088	U	0.0088	0.00097	mg/Kg	☼	03/18/13 10:38	03/20/13 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*65 - 130*	*03/18/13 10:38*	*03/20/13 20:20*	*1*
Dibromofluoromethane	*81*		*65 - 130*	*03/18/13 10:38*	*03/20/13 20:20*	*1*
Toluene-d8 (Surr)	*89*		*65 - 130*	*03/18/13 10:38*	*03/20/13 20:20*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.038	U	0.038	0.011	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Acenaphthylene	0.038	U	0.038	0.0087	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Acetophenone	0.38	U	0.38	0.068	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
2-Acetylaminofluorene	0.19	U	0.19	0.035	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
alpha,alpha-Dimethyl phenethylamine	1.5	U	1.5	0.45	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
4-Aminobiphenyl	0.19	U	0.19	0.077	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Aniline	0.76	U	0.76	0.34	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Anthracene	0.038	U	0.038	0.0089	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Aramite	0.19	U	0.19	0.038	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Benzenethiol	0.76	U	0.76	0.38	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Benzidine	0.76	U *	0.76	0.38	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Benzo[a]anthracene	0.038	U	0.038	0.0079	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Benzo[a]pyrene	0.038	U	0.038	0.0069	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Benzo[b]fluoranthene	0.038	U	0.038	0.0074	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Benzo[g,h,i]perylene	0.038	U	0.038	0.013	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Benzoic acid	1.9	U	1.9	0.52	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Benzo[k]fluoranthene	0.038	U	0.038	0.0090	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Benzyl alcohol	0.38	U	0.38	0.11	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Bis(2-chloroethoxy)methane	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Bis(2-chloroethyl)ether	0.19	U	0.19	0.056	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Bis(2-ethylhexyl) phthalate	0.19	U	0.19	0.050	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
4-Bromophenyl phenyl ether	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Butyl benzyl phthalate	0.19	U	0.19	0.047	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-10-12-14-20130312-01
Date Collected: 03/12/13 16:15
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-22
Matrix: Solid
Percent Solids: 86.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	0.38	U	0.38	0.087	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
4-Chloroaniline	0.76	U	0.76	0.12	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
4-Chloro-3-methylphenol	0.38	U	0.38	0.18	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
2-Chloronaphthalene	0.19	U	0.19	0.043	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
2-Chlorophenol	0.19	U	0.19	0.054	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
4-Chlorophenyl phenyl ether	0.19	U	0.19	0.060	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Chrysene	0.038	U	0.038	0.0086	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Diallate	0.19	U	0.19	0.038	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Dibenz(a,h)anthracene	0.038	U	0.038	0.011	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Dibenz[a,j]acridine	0.19	U	0.19	0.021	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Dibenzofuran	0.19	U	0.19	0.046	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
1,2-Dichlorobenzene	0.19	U	0.19	0.041	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
1,3-Dichlorobenzene	0.19	U	0.19	0.040	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
1,4-Dichlorobenzene	0.19	U	0.19	0.040	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
3,3'-Dichlorobenzidine	0.19	U	0.19	0.032	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
2,4-Dichlorophenol	0.38	U	0.38	0.12	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
2,6-Dichlorophenol	0.19	U	0.19	0.054	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Diethyl phthalate	0.19	U	0.19	0.063	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Diethylstilbestrol	0.76	U	0.76	0.094	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Dimethoate	0.38	U	0.38	0.085	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
7,12-Dimethylbenz(a)anthracene	0.19	U	0.19	0.046	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
3,3'-Dimethylbenzidine	0.76	U	0.76	0.20	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
2,4-Dimethylphenol	0.38	U	0.38	0.12	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Dimethyl phthalate	0.19	U	0.19	0.047	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Di-n-butyl phthalate	0.19	U	0.19	0.048	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
1,4-Dinitrobenzene	0.19	U	0.19	0.030	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
4,6-Dinitro-2-methylphenol	0.38	U	0.38	0.092	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
2,4-Dinitrophenol	0.76	U	0.76	0.19	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
2,4-Dinitrotoluene	0.19	U	0.19	0.058	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
2,6-Dinitrotoluene	0.19	U	0.19	0.045	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Di-n-octyl phthalate	0.19	U	0.19	0.077	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Dinoseb	0.38	U	0.38	0.098	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
1,4-Dioxane	0.76	U	0.76	0.26	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Diphenylamine	0.19	U	0.19	0.044	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
1,2-Diphenylhydrazine	0.19	U	0.19	0.048	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Disulfoton	0.38	U	0.38	0.057	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Ethyl 4,4'-Dichlorobenzilate	0.19	U	0.19	0.024	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Ethyl methanesulfonate	0.19	U	0.19	0.021	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Ethyl Parathion	0.38	U	0.38	0.11	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Famphur	0.38	U	0.38	0.061	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Fluoranthene	0.038	U	0.038	0.016	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Fluorene	0.038	U	0.038	0.0086	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Hexachlorobenzene	0.076	U	0.076	0.0075	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Hexachlorobutadiene	0.19	U	0.19	0.050	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Hexachlorocyclopentadiene	0.76	U	0.76	0.18	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Hexachloroethane	0.19	U	0.19	0.040	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Hexachlorophene	3.8	U	3.8	1.4	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Hexachloropropene	0.38	U	0.38	0.15	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Indeno[1,2,3-cd]pyrene	0.038	U	0.038	0.013	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-10-12-14-20130312-01
Date Collected: 03/12/13 16:15
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-22
Matrix: Solid
Percent Solids: 86.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Isosafrole	0.19	U	0.19	0.020	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Kepone	0.76	U	0.76	0.38	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Malathion	0.38	U	0.38	0.11	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
m-Dinitrobenzene	0.19	U	0.19	0.036	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Methapyrilene	1.5	U	1.5	0.20	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
3-Methylcholanthrene	0.19	U	0.19	0.016	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Methyl methanesulfonate	0.19	U	0.19	0.031	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
2-Methylnaphthalene	0.19	U	0.19	0.049	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Methyl parathion	0.38	U	0.38	0.11	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
2-Methylphenol	0.19	U	0.19	0.050	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
3 & 4 Methylphenol	0.19	U	0.19	0.072	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Naphthalene	0.038	U	0.038	0.0073	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
1,4-Naphthoquinone	0.76	U	0.76	0.38	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
1-Naphthylamine	0.19	U	0.19	0.029	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
2-Naphthylamine	0.19	U	0.19	0.052	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
2-Nitroaniline	0.19	U	0.19	0.068	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
3-Nitroaniline	0.38	U	0.38	0.073	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
4-Nitroaniline	0.38	U	0.38	0.078	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Nitrobenzene	0.038	U	0.038	0.012	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
5-Nitro-o-toluidine	0.19	U	0.19	0.036	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
2-Nitrophenol	0.38	U	0.38	0.059	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
4-Nitrophenol	0.76	U	0.76	0.20	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
4-Nitroquinoline-1-oxide	0.76	U	0.76	0.36	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
N-Nitrosodiethylamine	0.38	U	0.38	0.11	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
N-Nitrosodimethylamine	0.76	U	0.76	0.41	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
N-Nitrosodi-n-butylamine	0.19	U	0.19	0.068	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
N-Nitrosodi-n-propylamine	0.19	U	0.19	0.048	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
N-Nitrosodiphenylamine	0.19	U	0.19	0.051	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
N-Nitrosomethylethylamine	0.76	U	0.76	0.31	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
N-Nitrosomorpholine	0.19	U	0.19	0.035	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
N-Nitrosopiperidine	0.38	U	0.38	0.035	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
N-Nitrosopyrrolidine	0.19	U	0.19	0.043	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
o,o',o''-Triethylphosphorothioate	0.38	U	0.38	0.058	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
o-Toluidine	0.19	U	0.19	0.037	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
2,2'-oxybis[1-chloropropane]	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
p-Dimethylamino azobenzene	0.19	U	0.19	0.020	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Pentachlorobenzene	0.19	U	0.19	0.048	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Pentachloronitrobenzene	0.19	U	0.19	0.027	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Pentachlorophenol	0.76	U	0.76	0.19	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Phenacetin	0.19	U	0.19	0.039	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Phenanthrene	0.038	U	0.038	0.016	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Phenol	0.19	U	0.19	0.060	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Phorate	0.38	U	0.38	0.080	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
2-Picoline	0.38	U	0.38	0.14	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
p-Phenylene diamine	1.5	U	1.5	0.080	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Pronamide	0.19	U	0.19	0.031	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Pyrene	0.038	U	0.038	0.014	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Pyridine	0.76	U	0.76	0.45	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1

Client Sample ID: DDSB-10-12-14-20130312-01
Date Collected: 03/12/13 16:15
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-22
Matrix: Solid
Percent Solids: 86.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole	0.19	U	0.19	0.018	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Sulfotepp	0.38	U	0.38	0.076	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
sym-Trinitrobenzene	0.76	U	0.76	0.39	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
1,2,4,5-Tetrachlorobenzene	0.19	U	0.19	0.045	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
2,3,4,6-Tetrachlorophenol	0.19	U	0.19	0.052	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
Thionazin	0.38	U	0.38	0.084	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
1,2,4-Trichlorobenzene	0.19	U	0.19	0.043	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
2,4,5-Trichlorophenol	0.38	U	0.38	0.11	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1
2,4,6-Trichlorophenol	0.38	U	0.38	0.048	mg/Kg	☼	03/15/13 07:34	03/23/13 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*30 - 119*	*03/15/13 07:34*	*03/23/13 01:27*	*1*
2-Fluorophenol	*71*		*30 - 110*	*03/15/13 07:34*	*03/23/13 01:27*	*1*
Nitrobenzene-d5	*70*		*30 - 115*	*03/15/13 07:34*	*03/23/13 01:27*	*1*
Phenol-d5	*62*		*31 - 110*	*03/15/13 07:34*	*03/23/13 01:27*	*1*
Terphenyl-d14	*90*		*36 - 134*	*03/15/13 07:34*	*03/23/13 01:27*	*1*
2,4,6-Tribromophenol	*82*		*35 - 137*	*03/15/13 07:34*	*03/23/13 01:27*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0020	U	0.0020	0.00080	mg/Kg	☼	03/15/13 07:24	03/26/13 13:24	1
alpha-BHC	0.0020	U	0.0020	0.00049	mg/Kg	☼	03/15/13 07:24	03/26/13 13:24	1
beta-BHC	0.0020	U	0.0020	0.00060	mg/Kg	☼	03/15/13 07:24	03/26/13 13:24	1
Chlordane (technical)	0.0077	U	0.0077	0.0037	mg/Kg	☼	03/15/13 07:24	03/26/13 13:24	1
4,4'-DDD	0.0020	U	0.0020	0.00038	mg/Kg	☼	03/15/13 07:24	03/26/13 13:24	1
4,4'-DDE	0.0020	U	0.0020	0.00032	mg/Kg	☼	03/15/13 07:24	03/26/13 13:24	1
4,4'-DDT	0.0020	U	0.0020	0.0010	mg/Kg	☼	03/15/13 07:24	03/26/13 13:24	1
delta-BHC	0.0020	U	0.0020	0.00060	mg/Kg	☼	03/15/13 07:24	03/26/13 13:24	1
Dieldrin	0.0020	U	0.0020	0.00026	mg/Kg	☼	03/15/13 07:24	03/26/13 13:24	1
Endosulfan I	0.0020	U	0.0020	0.00084	mg/Kg	☼	03/15/13 07:24	03/26/13 13:24	1
Endosulfan II	0.0020	U	0.0020	0.00031	mg/Kg	☼	03/15/13 07:24	03/26/13 13:24	1
Endosulfan sulfate	0.0020	U	0.0020	0.00035	mg/Kg	☼	03/15/13 07:24	03/26/13 13:24	1
Endrin	0.0020	U	0.0020	0.00027	mg/Kg	☼	03/15/13 07:24	03/26/13 13:24	1
Endrin aldehyde	0.0020	U	0.0020	0.00032	mg/Kg	☼	03/15/13 07:24	03/26/13 13:24	1
Endrin ketone	0.0020	U	0.0020	0.00043	mg/Kg	☼	03/15/13 07:24	03/26/13 13:24	1
gamma-BHC (Lindane)	0.0020	U	0.0020	0.00042	mg/Kg	☼	03/15/13 07:24	03/26/13 13:24	1
Heptachlor	0.0020	U	0.0020	0.00081	mg/Kg	☼	03/15/13 07:24	03/26/13 13:24	1
Heptachlor epoxide	0.0020	U	0.0020	0.00068	mg/Kg	☼	03/15/13 07:24	03/26/13 13:24	1
Isodrin	0.0020	U	0.0020	0.00089	mg/Kg	☼	03/15/13 07:24	03/26/13 13:24	1
Methoxychlor	0.0095	U	0.0095	0.00037	mg/Kg	☼	03/15/13 07:24	03/26/13 13:24	1
Toxaphene	0.019	U	0.019	0.0081	mg/Kg	☼	03/15/13 07:24	03/26/13 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*		*56 - 128*	*03/15/13 07:24*	*03/26/13 13:24*	*1*
Tetrachloro-m-xylene	*54*		*45 - 112*	*03/15/13 07:24*	*03/26/13 13:24*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.019	U	0.019	0.0068	mg/Kg	☼	03/15/13 07:24	03/20/13 11:42	1
PCB-1221	0.019	U	0.019	0.0084	mg/Kg	☼	03/15/13 07:24	03/20/13 11:42	1

Client Sample ID: DDSB-10-12-14-20130312-01
Date Collected: 03/12/13 16:15
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-22
Matrix: Solid
Percent Solids: 86.1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	0.019	U	0.019	0.0084	mg/Kg	☼	03/15/13 07:24	03/20/13 11:42	1
PCB-1242	0.019	U	0.019	0.0063	mg/Kg	☼	03/15/13 07:24	03/20/13 11:42	1
PCB-1248	0.019	U	0.019	0.0075	mg/Kg	☼	03/15/13 07:24	03/20/13 11:42	1
PCB-1254	0.019	U	0.019	0.0041	mg/Kg	☼	03/15/13 07:24	03/20/13 11:42	1
PCB-1260	0.019	U	0.019	0.0094	mg/Kg	☼	03/15/13 07:24	03/20/13 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*50 - 116*	*03/15/13 07:24*	*03/20/13 11:42*	*1*
DCB Decachlorobiphenyl	*101*		*48 - 142*	*03/15/13 07:24*	*03/20/13 11:42*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.075	U	0.075	0.0033	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Azinphos-methyl	0.075	U	0.075	0.017	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Bolstar	0.038	U	0.038	0.0054	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Carbophenthion	0.075	U	0.075	0.0060	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Chlorpyrifos	0.038	U	0.038	0.0077	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Chlorpyrifos-methyl	0.038	U	0.038	0.014	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Coumaphos	0.38	U	0.38	0.025	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Demeton-O	0.095	U	0.095	0.0030	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Demeton-S	0.095	U	0.095	0.0064	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Demeton, Total	0.095	U	0.095	0.0088	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Diazinon	0.038	U	0.038	0.0065	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Dichlofenthion	0.038	U	0.038	0.0048	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Dichlorvos	0.075	U	0.075	0.0073	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Dimethoate	0.075	U	0.075	0.010	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Disulfoton	0.075	U	0.075	0.018	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
EPN	0.038	U	0.038	0.0051	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Ethion	0.019	U	0.019	0.0060	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Ethoprop	0.019	U	0.019	0.0048	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Ethyl Parathion	0.038	U	0.038	0.0063	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Famphur	0.075	U	0.075	0.0095	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Fensulfothion	0.38	U	0.38	0.014	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Fenthion	0.038	U	0.038	0.0054	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Malathion	0.038	U	0.038	0.0093	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Merphos	0.038	U	0.038	0.013	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Methyl parathion	0.019	U	0.019	0.0062	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Mevinphos	0.075	U	0.075	0.0052	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Monochrotophos	0.38	U	0.38	0.052	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Naled	0.38	U	0.38	0.025	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Phorate	0.038	U	0.038	0.0062	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Ronnel	0.038	U	0.038	0.0048	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Simazine	0.075	U	0.075	0.0036	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Stirophos	0.038	U	0.038	0.0073	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Sulfotepp	0.019	U	0.019	0.0098	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Terbufos	0.019	U	0.019	0.018	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Thionazin	0.038	U	0.038	0.011	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Tokuthion	0.038	U	0.038	0.0062	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1
Trichloronate	0.38	U	0.38	0.0087	mg/Kg	☼	03/16/13 09:29	04/02/13 10:20	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-10-12-14-20130312-01
Date Collected: 03/12/13 16:15
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-22
Matrix: Solid
Percent Solids: 86.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate (TPP)	67		35 - 134	03/16/13 09:29	04/02/13 10:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9100**		21	10	mg/Kg	☼	03/15/13 09:28	03/19/13 04:45	1
Antimony	2.1	U	2.1	0.55	mg/Kg	☼	03/15/13 09:28	03/19/13 04:45	1
Arsenic	**0.62**	**J**	2.1	0.62	mg/Kg	☼	03/15/13 09:28	03/19/13 04:45	1
Barium	**10**		1.0	0.31	mg/Kg	☼	03/15/13 09:28	03/19/13 04:45	1
Beryllium	**0.16**	**J**	0.42	0.021	mg/Kg	☼	03/15/13 09:28	03/19/13 04:45	1
Cadmium	0.52	U	0.52	0.10	mg/Kg	☼	03/15/13 09:28	03/19/13 04:45	1
Calcium	**98**		52	21	mg/Kg	☼	03/15/13 09:28	03/19/13 04:45	1
Chromium	**6.3**		1.0	0.52	mg/Kg	☼	03/15/13 09:28	03/19/13 04:45	1
Cobalt	**0.78**	**J**	1.0	0.13	mg/Kg	☼	03/15/13 09:28	03/19/13 04:45	1
Copper	**4.1**		2.6	1.2	mg/Kg	☼	03/15/13 09:28	03/19/13 04:45	1
Iron	**5700**		21	7.3	mg/Kg	☼	03/15/13 09:28	03/19/13 04:45	1
Lead	**5.0**		1.0	0.55	mg/Kg	☼	03/15/13 09:28	03/19/13 04:45	1
Magnesium	**250**		52	2.5	mg/Kg	☼	03/15/13 09:28	03/19/13 04:45	1
Manganese	**31**		1.0	0.31	mg/Kg	☼	03/15/13 09:28	03/19/13 04:45	1
Nickel	**2.5**	**J**	4.2	0.32	mg/Kg	☼	03/15/13 09:28	03/19/13 04:45	1
Potassium	**280**		100	8.4	mg/Kg	☼	03/15/13 09:28	03/19/13 04:45	1
Selenium	2.6	U	2.6	1.0	mg/Kg	☼	03/15/13 09:28	03/19/13 04:45	1
Silver	1.0	U	1.0	0.10	mg/Kg	☼	03/15/13 09:28	03/19/13 04:45	1
Sodium	210	U	210	86	mg/Kg	☼	03/15/13 09:28	03/19/13 04:45	1
Thallium	2.6	U	2.6	1.0	mg/Kg	☼	03/15/13 09:28	03/19/13 04:45	1
Vanadium	**16**		1.0	0.25	mg/Kg	☼	03/15/13 09:28	03/19/13 04:45	1
Zinc	**7.9**		2.1	1.3	mg/Kg	☼	03/15/13 09:28	03/19/13 04:45	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.020**	**J**	0.021	0.0087	mg/Kg	☼	03/14/13 10:22	03/15/13 19:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	1.1	U	1.1	0.34	mg/Kg	☼	03/15/13 10:20	03/16/13 11:20	1
Cyanide, Total	0.57	U	0.57	0.24	mg/Kg	☼	03/14/13 08:30	03/15/13 09:58	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-4-0-2-20130313-01
Date Collected: 03/13/13 08:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-23
Matrix: Solid
Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.053	U *	0.053	0.012	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Benzene	0.0053	U	0.0053	0.00078	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Bromobenzene	0.0053	U	0.0053	0.0018	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Bromochloromethane	0.0053	U	0.0053	0.0035	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Bromodichloromethane	0.0053	U	0.0053	0.0010	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Bromoform	0.0053	U	0.0053	0.0016	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Bromomethane	0.0053	U	0.0053	0.0016	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
2-Butanone	0.027	U	0.027	0.0026	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Carbon disulfide	0.0053	U	0.0053	0.0012	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Carbon tetrachloride	0.0053	U	0.0053	0.00089	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Chlorobenzene	0.0053	U	0.0053	0.0010	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Chlorodibromomethane	0.0053	U	0.0053	0.0018	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Chloroethane	0.0053	U	0.0053	0.0029	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Chloroform	0.0053	U	0.0053	0.0012	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Chloromethane	0.0053	U	0.0053	0.0011	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
2-Chlorotoluene	0.0053	U	0.0053	0.0021	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
4-Chlorotoluene	0.0053	U	0.0053	0.0018	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
cis-1,2-Dichloroethene	0.0053	U	0.0053	0.0015	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
cis-1,3-Dichloropropene	0.0053	U	0.0053	0.00089	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Cyclohexane	0.011	U	0.011	0.0014	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
1,2-Dibromo-3-Chloropropane	0.011	U	0.011	0.0047	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
1,2-Dibromoethane	0.0053	U	0.0053	0.0016	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Dibromomethane	0.0053	U	0.0053	0.0018	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
1,2-Dichlorobenzene	0.0053	U	0.0053	0.0014	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
1,3-Dichlorobenzene	0.0053	U	0.0053	0.0017	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
1,4-Dichlorobenzene	0.0053	U	0.0053	0.00079	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Dichlorodifluoromethane	0.0053	U	0.0053	0.0010	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
1,1-Dichloroethane	0.0053	U	0.0053	0.0012	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
1,2-Dichloroethane	0.0053	U	0.0053	0.0012	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
1,1-Dichloroethene	0.0053	U	0.0053	0.0016	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
1,2-Dichloropropane	0.0053	U	0.0053	0.00092	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
2,2-Dichloropropane	0.0053	U	0.0053	0.0012	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
1,3-Dichloropropane	0.0053	U	0.0053	0.0019	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
1,1-Dichloropropene	0.0053	U	0.0053	0.0010	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Ethylbenzene	0.0053	U	0.0053	0.0014	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Hexachlorobutadiene	0.0053	U	0.0053	0.0033	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
2-Hexanone	0.027	U *	0.027	0.0035	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Isopropylbenzene	0.0053	U	0.0053	0.0020	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Methyl acetate	0.011	U	0.011	0.0053	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Methylcyclohexane	0.011	U	0.011	0.00092	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Methylene Chloride	0.0053	U	0.0053	0.0010	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
4-Methyl-2-pentanone	0.027	U	0.027	0.0045	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Methyl tert-butyl ether	0.011	U	0.011	0.0011	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Naphthalene	0.0053	U	0.0053	0.0013	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
n-Butylbenzene	0.0053	U	0.0053	0.0026	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
N-Propylbenzene	0.0053	U	0.0053	0.0029	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
p-Isopropyltoluene	0.0053	U	0.0053	0.0023	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
sec-Butylbenzene	0.0053	U	0.0053	0.0022	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Styrene	0.0053	U	0.0053	0.00099	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1

Client Sample ID: DDSB-4-0-2-20130313-01
Date Collected: 03/13/13 08:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-23
Matrix: Solid
Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.0053	U	0.0053	0.0019	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
1,1,2,2-Tetrachloroethane	0.0053	U	0.0053	0.0017	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
1,1,1,2-Tetrachloroethane	0.0053	U	0.0053	0.0026	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Tetrachloroethene	0.0053	U	0.0053	0.0020	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Toluene	0.0053	U	0.0053	0.00090	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
trans-1,2-Dichloroethene	0.0053	U	0.0053	0.00067	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
trans-1,3-Dichloropropene	0.0053	U	0.0053	0.00093	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
1,2,4-Trichlorobenzene	0.0053	U	0.0053	0.00095	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
1,2,3-Trichlorobenzene	0.0053	U	0.0053	0.0017	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
1,1,1-Trichloroethane	0.0053	U	0.0053	0.00063	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
1,1,2-Trichloroethane	0.0053	U	0.0053	0.0014	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Trichloroethene	0.0053	U	0.0053	0.0014	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Trichlorofluoromethane	0.0053	U	0.0053	0.0013	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
1,2,3-Trichloropropane	0.0053	U	0.0053	0.0026	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0053	U	0.0053	0.0014	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
1,2,4-Trimethylbenzene	0.0053	U	0.0053	0.0015	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
1,3,5-Trimethylbenzene	0.0053	U	0.0053	0.0018	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Vinyl chloride	0.0053	U	0.0053	0.0016	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1
Xylenes, Total	0.011	U	0.011	0.0012	mg/Kg	☼	03/18/13 10:38	03/20/13 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*65 - 130*	*03/18/13 10:38*	*03/20/13 20:42*	*1*
Dibromofluoromethane	*82*		*65 - 130*	*03/18/13 10:38*	*03/20/13 20:42*	*1*
Toluene-d8 (Surr)	*88*		*65 - 130*	*03/18/13 10:38*	*03/20/13 20:42*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.036	U	0.036	0.011	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Acenaphthylene	0.036	U	0.036	0.0082	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Acetophenone	0.36	U	0.36	0.065	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
2-Acetylaminofluorene	0.18	U	0.18	0.033	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
alpha,alpha-Dimethyl phenethylamine	1.4	U	1.4	0.42	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
4-Aminobiphenyl	0.18	U	0.18	0.073	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Aniline	0.72	U	0.72	0.32	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Anthracene	0.036	U	0.036	0.0084	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Aramite	0.18	U	0.18	0.036	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Benzenethiol	0.72	U	0.72	0.36	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Benzidine	0.72	U *	0.72	0.36	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Benzo[a]anthracene	0.036	U	0.036	0.0075	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Benzo[a]pyrene	0.036	U	0.036	0.0065	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Benzo[b]fluoranthene	0.036	U	0.036	0.0070	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Benzo[g,h,i]perylene	0.036	U	0.036	0.012	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Benzoic acid	1.8	U	1.8	0.49	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Benzo[k]fluoranthene	0.036	U	0.036	0.0085	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Benzyl alcohol	0.36	U	0.36	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Bis(2-chloroethoxy)methane	0.18	U	0.18	0.040	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Bis(2-chloroethyl)ether	0.18	U	0.18	0.053	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Bis(2-ethylhexyl) phthalate	0.18	U	0.18	0.047	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
4-Bromophenyl phenyl ether	0.18	U	0.18	0.040	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Butyl benzyl phthalate	0.18	U	0.18	0.045	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-4-0-2-20130313-01
Date Collected: 03/13/13 08:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-23
Matrix: Solid
Percent Solids: 88.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	0.36	U	0.36	0.083	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
4-Chloroaniline	0.72	U	0.72	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
4-Chloro-3-methylphenol	0.36	U	0.36	0.17	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
2-Chloronaphthalene	0.18	U	0.18	0.040	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
2-Chlorophenol	0.18	U	0.18	0.051	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
4-Chlorophenyl phenyl ether	0.18	U	0.18	0.056	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Chrysene	0.036	U	0.036	0.0081	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Diallate	0.18	U	0.18	0.036	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Dibenz(a,h)anthracene	0.036	U	0.036	0.010	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Dibenz[a,j]acridine	0.18	U	0.18	0.020	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Dibenzofuran	0.18	U	0.18	0.043	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
1,2-Dichlorobenzene	0.18	U	0.18	0.039	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
1,3-Dichlorobenzene	0.18	U	0.18	0.038	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
1,4-Dichlorobenzene	0.18	U	0.18	0.038	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
3,3'-Dichlorobenzidine	0.18	U	0.18	0.030	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
2,4-Dichlorophenol	0.36	U	0.36	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
2,6-Dichlorophenol	0.18	U	0.18	0.051	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Diethyl phthalate	0.18	U	0.18	0.060	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Diethylstilbestrol	0.72	U	0.72	0.089	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Dimethoate	0.36	U	0.36	0.080	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
7,12-Dimethylbenz(a)anthracene	0.18	U	0.18	0.044	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
3,3'-Dimethylbenzidine	0.72	U	0.72	0.19	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
2,4-Dimethylphenol	0.36	U	0.36	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Dimethyl phthalate	0.18	U	0.18	0.045	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Di-n-butyl phthalate	0.18	U	0.18	0.045	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
1,4-Dinitrobenzene	0.18	U	0.18	0.028	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
4,6-Dinitro-2-methylphenol	0.36	U	0.36	0.087	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
2,4-Dinitrophenol	0.72	U	0.72	0.18	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
2,4-Dinitrotoluene	0.18	U	0.18	0.055	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
2,6-Dinitrotoluene	0.18	U	0.18	0.043	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Di-n-octyl phthalate	0.18	U	0.18	0.073	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Dinoseb	0.36	U	0.36	0.092	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
1,4-Dioxane	0.72	U	0.72	0.24	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Diphenylamine	0.18	U	0.18	0.041	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
1,2-Diphenylhydrazine	0.18	U	0.18	0.045	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Disulfoton	0.36	U	0.36	0.054	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Ethyl 4,4'-Dichlorobenzilate	0.18	U	0.18	0.023	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Ethyl methanesulfonate	0.18	U	0.18	0.020	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Ethyl Parathion	0.36	U	0.36	0.10	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Famphur	0.36	U	0.36	0.058	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Fluoranthene	0.036	U	0.036	0.015	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Fluorene	0.036	U	0.036	0.0081	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Hexachlorobenzene	0.072	U	0.072	0.0070	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Hexachlorobutadiene	0.18	U	0.18	0.047	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Hexachlorocyclopentadiene	0.72	U	0.72	0.17	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Hexachloroethane	0.18	U	0.18	0.038	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Hexachlorophene	3.6	U	3.6	1.3	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Hexachloropropene	0.36	U	0.36	0.14	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Indeno[1,2,3-cd]pyrene	0.036	U	0.036	0.012	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-4-0-2-20130313-01
Date Collected: 03/13/13 08:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-23
Matrix: Solid
Percent Solids: 88.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	0.18	U	0.18	0.040	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Isosafrole	0.18	U	0.18	0.019	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Kepone	0.72	U	0.72	0.36	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Malathion	0.36	U	0.36	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
m-Dinitrobenzene	0.18	U	0.18	0.034	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Methapyrilene	1.4	U	1.4	0.19	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
3-Methylcholanthrene	0.18	U	0.18	0.015	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Methyl methanesulfonate	0.18	U	0.18	0.029	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
2-Methylnaphthalene	0.18	U	0.18	0.046	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Methyl parathion	0.36	U	0.36	0.10	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
2-Methylphenol	0.18	U	0.18	0.048	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
3 & 4 Methylphenol	0.18	U	0.18	0.068	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Naphthalene	0.036	U	0.036	0.0069	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
1,4-Naphthoquinone	0.72	U	0.72	0.36	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
1-Naphthylamine	0.18	U	0.18	0.027	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
2-Naphthylamine	0.18	U	0.18	0.049	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
2-Nitroaniline	0.18	U	0.18	0.064	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
3-Nitroaniline	0.36	U	0.36	0.069	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
4-Nitroaniline	0.36	U	0.36	0.073	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Nitrobenzene	0.036	U	0.036	0.011	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
5-Nitro-o-toluidine	0.18	U	0.18	0.034	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
2-Nitrophenol	0.36	U	0.36	0.056	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
4-Nitrophenol	0.72	U	0.72	0.19	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
4-Nitroquinoline-1-oxide	0.72	U	0.72	0.34	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
N-Nitrosodiethylamine	0.36	U	0.36	0.10	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
N-Nitrosodimethylamine	0.72	U	0.72	0.39	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
N-Nitrosodi-n-butylamine	0.18	U	0.18	0.064	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
N-Nitrosodi-n-propylamine	0.18	U	0.18	0.045	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
N-Nitrosodiphenylamine	0.18	U	0.18	0.048	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
N-Nitrosomethylethylamine	0.72	U	0.72	0.29	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
N-Nitrosomorpholine	0.18	U	0.18	0.033	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
N-Nitrosopiperidine	0.36	U	0.36	0.033	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
N-Nitrosopyrrolidine	0.18	U	0.18	0.041	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
o,o',o''-Triethylphosphorothioate	0.36	U	0.36	0.055	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
o-Toluidine	0.18	U	0.18	0.035	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
2,2'-oxybis[1-chloropropane]	0.18	U	0.18	0.040	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
p-Dimethylamino azobenzene	0.18	U	0.18	0.019	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Pentachlorobenzene	0.18	U	0.18	0.045	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Pentachloronitrobenzene	0.18	U	0.18	0.025	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Pentachlorophenol	0.72	U	0.72	0.18	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Phenacetin	0.18	U	0.18	0.037	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Phenanthrene	0.036	U	0.036	0.015	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Phenol	0.18	U	0.18	0.057	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Phorate	0.36	U	0.36	0.076	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
2-Picoline	0.36	U	0.36	0.13	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
p-Phenylene diamine	1.4	U	1.4	0.075	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Pronamide	0.18	U	0.18	0.029	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Pyrene	0.036	U	0.036	0.013	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Pyridine	0.72	U	0.72	0.42	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1

Client Sample ID: DDSB-4-0-2-20130313-01
Date Collected: 03/13/13 08:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-23
Matrix: Solid
Percent Solids: 88.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole	0.18	U	0.18	0.017	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Sulfotepp	0.36	U	0.36	0.072	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
sym-Trinitrobenzene	0.72	U	0.72	0.37	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
1,2,4,5-Tetrachlorobenzene	0.18	U	0.18	0.042	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
2,3,4,6-Tetrachlorophenol	0.18	U	0.18	0.049	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
Thionazin	0.36	U	0.36	0.080	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
1,2,4-Trichlorobenzene	0.18	U	0.18	0.041	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
2,4,5-Trichlorophenol	0.36	U	0.36	0.10	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1
2,4,6-Trichlorophenol	0.36	U	0.36	0.045	mg/Kg	☼	03/15/13 07:34	03/25/13 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*30 - 119*	*03/15/13 07:34*	*03/25/13 15:37*	*1*
2-Fluorophenol	*77*		*30 - 110*	*03/15/13 07:34*	*03/25/13 15:37*	*1*
Nitrobenzene-d5	*75*		*30 - 115*	*03/15/13 07:34*	*03/25/13 15:37*	*1*
Phenol-d5	*76*		*31 - 110*	*03/15/13 07:34*	*03/25/13 15:37*	*1*
Terphenyl-d14	*81*		*36 - 134*	*03/15/13 07:34*	*03/25/13 15:37*	*1*
2,4,6-Tribromophenol	*85*		*35 - 137*	*03/15/13 07:34*	*03/25/13 15:37*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0018	U	0.0018	0.00075	mg/Kg	☼	03/15/13 07:24	03/26/13 13:45	1
alpha-BHC	0.0018	U	0.0018	0.00046	mg/Kg	☼	03/15/13 07:24	03/26/13 13:45	1
beta-BHC	0.0018	U	0.0018	0.00056	mg/Kg	☼	03/15/13 07:24	03/26/13 13:45	1
Chlordane (technical)	0.0072	U	0.0072	0.0035	mg/Kg	☼	03/15/13 07:24	03/26/13 13:45	1
4,4'-DDD	0.0018	U	0.0018	0.00036	mg/Kg	☼	03/15/13 07:24	03/26/13 13:45	1
4,4'-DDE	0.0018	U	0.0018	0.00030	mg/Kg	☼	03/15/13 07:24	03/26/13 13:45	1
4,4'-DDT	0.0018	U	0.0018	0.00095	mg/Kg	☼	03/15/13 07:24	03/26/13 13:45	1
delta-BHC	0.0018	U	0.0018	0.00057	mg/Kg	☼	03/15/13 07:24	03/26/13 13:45	1
Dieldrin	0.0018	U	0.0018	0.00025	mg/Kg	☼	03/15/13 07:24	03/26/13 13:45	1
Endosulfan I	0.0018	U	0.0018	0.00079	mg/Kg	☼	03/15/13 07:24	03/26/13 13:45	1
Endosulfan II	0.0018	U	0.0018	0.00029	mg/Kg	☼	03/15/13 07:24	03/26/13 13:45	1
Endosulfan sulfate	0.0018	U	0.0018	0.00033	mg/Kg	☼	03/15/13 07:24	03/26/13 13:45	1
Endrin	0.0018	U	0.0018	0.00025	mg/Kg	☼	03/15/13 07:24	03/26/13 13:45	1
Endrin aldehyde	0.0018	U	0.0018	0.00030	mg/Kg	☼	03/15/13 07:24	03/26/13 13:45	1
Endrin ketone	0.0018	U	0.0018	0.00041	mg/Kg	☼	03/15/13 07:24	03/26/13 13:45	1
gamma-BHC (Lindane)	0.0018	U	0.0018	0.00039	mg/Kg	☼	03/15/13 07:24	03/26/13 13:45	1
Heptachlor	0.0018	U	0.0018	0.00076	mg/Kg	☼	03/15/13 07:24	03/26/13 13:45	1
Heptachlor epoxide	0.0018	U	0.0018	0.00064	mg/Kg	☼	03/15/13 07:24	03/26/13 13:45	1
Isodrin	0.0018	U	0.0018	0.00084	mg/Kg	☼	03/15/13 07:24	03/26/13 13:45	1
Methoxychlor	0.0090	U	0.0090	0.00035	mg/Kg	☼	03/15/13 07:24	03/26/13 13:45	1
Toxaphene	0.018	U	0.018	0.0076	mg/Kg	☼	03/15/13 07:24	03/26/13 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*56 - 128*	*03/15/13 07:24*	*03/26/13 13:45*	*1*
Tetrachloro-m-xylene	*54*		*45 - 112*	*03/15/13 07:24*	*03/26/13 13:45*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.018	U	0.018	0.0064	mg/Kg	☼	03/15/13 07:24	03/20/13 11:56	1
PCB-1221	0.018	U	0.018	0.0079	mg/Kg	☼	03/15/13 07:24	03/20/13 11:56	1

Client Sample ID: DDSB-4-0-2-20130313-01
Date Collected: 03/13/13 08:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-23
Matrix: Solid
Percent Solids: 88.3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	0.018	U	0.018	0.0079	mg/Kg	☼	03/15/13 07:24	03/20/13 11:56	1
PCB-1242	0.018	U	0.018	0.0059	mg/Kg	☼	03/15/13 07:24	03/20/13 11:56	1
PCB-1248	0.018	U	0.018	0.0071	mg/Kg	☼	03/15/13 07:24	03/20/13 11:56	1
PCB-1254	0.018	U	0.018	0.0039	mg/Kg	☼	03/15/13 07:24	03/20/13 11:56	1
PCB-1260	0.018	U	0.018	0.0088	mg/Kg	☼	03/15/13 07:24	03/20/13 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*50 - 116*	*03/15/13 07:24*	*03/20/13 11:56*	*1*
DCB Decachlorobiphenyl	*89*		*48 - 142*	*03/15/13 07:24*	*03/20/13 11:56*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.075	U	0.075	0.0033	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Azinphos-methyl	0.075	U	0.075	0.017	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Bolstar	0.037	U	0.037	0.0053	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Carbophenthion	0.075	U	0.075	0.0060	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Chlorpyrifos	0.037	U	0.037	0.0077	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Chlorpyrifos-methyl	0.037	U	0.037	0.014	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Coumaphos	0.37	U	0.37	0.025	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Demeton-O	0.094	U	0.094	0.0029	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Demeton-S	0.094	U	0.094	0.0063	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Demeton, Total	0.094	U	0.094	0.0087	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Diazinon	0.037	U	0.037	0.0064	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Dichlofenthion	0.037	U	0.037	0.0047	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Dichlorvos	0.075	U	0.075	0.0072	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Dimethoate	0.075	U	0.075	0.0099	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Disulfoton	0.075	U	0.075	0.018	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
EPN	0.037	U	0.037	0.0051	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Ethion	0.019	U	0.019	0.0060	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Ethoprop	0.019	U	0.019	0.0047	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Ethyl Parathion	0.037	U	0.037	0.0062	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Famphur	0.075	U	0.075	0.0094	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Fensulfothion	0.37	U	0.37	0.014	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Fenthion	0.037	U	0.037	0.0053	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Malathion	0.037	U	0.037	0.0093	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Merphos	0.037	U	0.037	0.012	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Methyl parathion	0.019	U	0.019	0.0061	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Mevinphos	0.075	U	0.075	0.0052	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Monochrotophos	0.37	U	0.37	0.052	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Naled	0.37	U	0.37	0.025	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Phorate	0.037	U	0.037	0.0061	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Ronnel	0.037	U	0.037	0.0047	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Simazine	0.075	U	0.075	0.0036	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Stirophos	0.037	U	0.037	0.0072	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Sulfotepp	0.019	U	0.019	0.0097	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Terbufos	0.019	U	0.019	0.018	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Thionazin	0.037	U	0.037	0.011	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Tokuthion	0.037	U	0.037	0.0061	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1
Trichloronate	0.37	U	0.37	0.0086	mg/Kg	☼	03/16/13 09:29	04/02/13 10:35	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-4-0-2-20130313-01
Date Collected: 03/13/13 08:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-23
Matrix: Solid
Percent Solids: 88.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate (TPP)	*51*		*35 - 134*	*03/16/13 09:29*	*04/02/13 10:35*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5500**		21	11	mg/Kg	☼	03/17/13 10:25	03/18/13 23:51	1
Antimony	2.1	U	2.1	0.57	mg/Kg	☼	03/17/13 10:25	03/18/13 23:51	1
Arsenic	**0.77**	**J**	2.1	0.63	mg/Kg	☼	03/17/13 10:25	03/18/13 23:51	1
Barium	**3.0**		1.1	0.32	mg/Kg	☼	03/17/13 10:25	03/18/13 23:51	1
Beryllium	**0.37**	**J**	0.43	0.021	mg/Kg	☼	03/17/13 10:25	03/18/13 23:51	1
Cadmium	0.53	U	0.53	0.11	mg/Kg	☼	03/17/13 10:25	03/18/13 23:51	1
Calcium	**250**		53	21	mg/Kg	☼	03/17/13 10:25	03/18/13 23:51	1
Chromium	**12**		1.1	0.53	mg/Kg	☼	03/17/13 10:25	03/18/13 23:51	1
Cobalt	**1.7**		1.1	0.13	mg/Kg	☼	03/17/13 10:25	03/18/13 23:51	1
Copper	**7.0**		2.7	1.2	mg/Kg	☼	03/17/13 10:25	03/18/13 23:51	1
Iron	**26000**		21	7.5	mg/Kg	☼	03/17/13 10:25	03/18/13 23:51	1
Lead	**7.1**		1.1	0.57	mg/Kg	☼	03/17/13 10:25	03/18/13 23:51	1
Magnesium	**110**		53	2.6	mg/Kg	☼	03/17/13 10:25	03/18/13 23:51	1
Manganese	**21**		1.1	0.32	mg/Kg	☼	03/17/13 10:25	03/18/13 23:51	1
Nickel	**4.1**	**J**	4.3	0.33	mg/Kg	☼	03/17/13 10:25	03/18/13 23:51	1
Potassium	**150**		110	8.6	mg/Kg	☼	03/17/13 10:25	03/18/13 23:51	1
Selenium	2.7	U	2.7	1.1	mg/Kg	☼	03/17/13 10:25	03/18/13 23:51	1
Silver	1.1	U	1.1	0.10	mg/Kg	☼	03/17/13 10:25	03/18/13 23:51	1
Sodium	210	U	210	88	mg/Kg	☼	03/17/13 10:25	03/18/13 23:51	1
Thallium	2.7	U	2.7	1.1	mg/Kg	☼	03/17/13 10:25	03/18/13 23:51	1
Vanadium	**55**		1.1	0.26	mg/Kg	☼	03/17/13 10:25	03/18/13 23:51	1
Zinc	**12**		2.1	1.3	mg/Kg	☼	03/17/13 10:25	03/18/13 23:51	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	U	0.020	0.0083	mg/Kg	☼	03/14/13 11:34	03/15/13 17:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	1.1	U	1.1	0.33	mg/Kg	☼	03/18/13 10:55	03/20/13 12:27	1
Cyanide, Total	0.56	U	0.56	0.24	mg/Kg	☼	03/14/13 10:30	03/15/13 10:02	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-4-12-14-20130313-01
Date Collected: 03/13/13 09:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-24
Matrix: Solid
Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.041	U *	0.041	0.0091	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Benzene	0.0041	U	0.0041	0.00060	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Bromobenzene	0.0041	U	0.0041	0.0014	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Bromochloromethane	0.0041	U	0.0041	0.0027	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Bromodichloromethane	0.0041	U	0.0041	0.00080	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Bromoform	0.0041	U	0.0041	0.0012	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Bromomethane	0.0041	U	0.0041	0.0012	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
2-Butanone	0.021	U	0.021	0.0020	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Carbon disulfide	0.0041	U	0.0041	0.00091	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Carbon tetrachloride	0.0041	U	0.0041	0.00068	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Chlorobenzene	0.0041	U	0.0041	0.00079	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Chlorodibromomethane	0.0041	U	0.0041	0.0014	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Chloroethane	0.0041	U	0.0041	0.0022	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Chloroform	0.0041	U	0.0041	0.00091	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Chloromethane	0.0041	U	0.0041	0.00082	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
2-Chlorotoluene	0.0041	U	0.0041	0.0016	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
4-Chlorotoluene	0.0041	U	0.0041	0.0014	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
cis-1,2-Dichloroethene	0.0041	U	0.0041	0.0012	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
cis-1,3-Dichloropropene	0.0041	U	0.0041	0.00068	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Cyclohexane	0.0082	U	0.0082	0.0011	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
1,2-Dibromo-3-Chloropropane	0.0082	U	0.0082	0.0036	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
1,2-Dibromoethane	0.0041	U	0.0041	0.0012	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Dibromomethane	0.0041	U	0.0041	0.0014	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
1,2-Dichlorobenzene	0.0041	U	0.0041	0.0011	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
1,3-Dichlorobenzene	0.0041	U	0.0041	0.0013	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
1,4-Dichlorobenzene	0.0041	U	0.0041	0.00061	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Dichlorodifluoromethane	0.0041	U	0.0041	0.00077	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
1,1-Dichloroethane	0.0041	U	0.0041	0.00091	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
1,2-Dichloroethane	0.0041	U	0.0041	0.00091	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
1,1-Dichloroethene	0.0041	U	0.0041	0.0012	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
1,2-Dichloropropane	0.0041	U	0.0041	0.00071	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
2,2-Dichloropropane	0.0041	U	0.0041	0.00091	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
1,3-Dichloropropane	0.0041	U	0.0041	0.0015	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
1,1-Dichloropropene	0.0041	U	0.0041	0.00078	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Ethylbenzene	0.0041	U	0.0041	0.0011	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Hexachlorobutadiene	0.0041	U	0.0041	0.0026	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
2-Hexanone	0.021	U *	0.021	0.0027	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Isopropylbenzene	0.0041	U	0.0041	0.0016	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Methyl acetate	0.0082	U	0.0082	0.0041	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Methylcyclohexane	0.0082	U	0.0082	0.00071	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Methylene Chloride	0.0041	U	0.0041	0.00081	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
4-Methyl-2-pentanone	0.021	U	0.021	0.0035	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Methyl tert-butyl ether	0.0082	U	0.0082	0.00082	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Naphthalene	0.0041	U	0.0041	0.00099	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
n-Butylbenzene	0.0041	U	0.0041	0.0020	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
N-Propylbenzene	0.0041	U	0.0041	0.0022	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
p-Isopropyltoluene	0.0041	U	0.0041	0.0018	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
sec-Butylbenzene	0.0041	U	0.0041	0.0017	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Styrene	0.0041	U	0.0041	0.00077	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1

Client Sample ID: DDSB-4-12-14-20130313-01
Date Collected: 03/13/13 09:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-24
Matrix: Solid
Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.0041	U	0.0041	0.0015	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
1,1,2,2-Tetrachloroethane	0.0041	U	0.0041	0.0013	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
1,1,1,2-Tetrachloroethane	0.0041	U	0.0041	0.0020	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Tetrachloroethene	0.0041	U	0.0041	0.0016	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Toluene	0.0041	U	0.0041	0.00069	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
trans-1,2-Dichloroethene	0.0041	U	0.0041	0.00052	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
trans-1,3-Dichloropropene	0.0041	U	0.0041	0.00072	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
1,2,4-Trichlorobenzene	0.0041	U	0.0041	0.00073	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
1,2,3-Trichlorobenzene	0.0041	U	0.0041	0.0013	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
1,1,1-Trichloroethane	0.0041	U	0.0041	0.00049	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
1,1,2-Trichloroethane	0.0041	U	0.0041	0.0011	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Trichloroethene	0.0041	U	0.0041	0.0011	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Trichlorofluoromethane	0.0041	U	0.0041	0.00099	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
1,2,3-Trichloropropane	0.0041	U	0.0041	0.0020	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0041	U	0.0041	0.0011	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
1,2,4-Trimethylbenzene	0.0041	U	0.0041	0.0012	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
1,3,5-Trimethylbenzene	0.0041	U	0.0041	0.0014	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Vinyl chloride	0.0041	U	0.0041	0.0012	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1
Xylenes, Total	0.0082	U	0.0082	0.00091	mg/Kg	☼	03/18/13 10:38	03/20/13 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*65 - 130*	*03/18/13 10:38*	*03/20/13 21:05*	*1*
Dibromofluoromethane	*83*		*65 - 130*	*03/18/13 10:38*	*03/20/13 21:05*	*1*
Toluene-d8 (Surr)	*87*		*65 - 130*	*03/18/13 10:38*	*03/20/13 21:05*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.037	U	0.037	0.011	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Acenaphthylene	0.037	U	0.037	0.0086	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Acetophenone	0.37	U	0.37	0.068	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
2-Acetylaminofluorene	0.19	U	0.19	0.035	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
alpha,alpha-Dimethyl phenethylamine	1.5	U	1.5	0.45	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
4-Aminobiphenyl	0.19	U	0.19	0.076	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Aniline	0.76	U	0.76	0.34	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Anthracene	0.037	U	0.037	0.0088	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Aramite	0.19	U	0.19	0.037	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Benzenethiol	0.76	U	0.76	0.37	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Benzidine	0.76	U *	0.76	0.37	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Benzo[a]anthracene	0.037	U	0.037	0.0079	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Benzo[a]pyrene	0.037	U	0.037	0.0068	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Benzo[b]fluoranthene	0.037	U	0.037	0.0073	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Benzo[g,h,i]perylene	0.037	U	0.037	0.013	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Benzoic acid	1.9	U	1.9	0.52	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Benzo[k]fluoranthene	0.037	U	0.037	0.0089	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Benzyl alcohol	0.37	U	0.37	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Bis(2-chloroethoxy)methane	0.19	U	0.19	0.041	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Bis(2-chloroethyl)ether	0.19	U	0.19	0.056	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Bis(2-ethylhexyl) phthalate	0.19	U	0.19	0.050	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
4-Bromophenyl phenyl ether	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Butyl benzyl phthalate	0.19	U	0.19	0.047	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1

Client Sample ID: DDSB-4-12-14-20130313-01
Date Collected: 03/13/13 09:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-24
Matrix: Solid
Percent Solids: 85.2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	0.37	U	0.37	0.087	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
4-Chloroaniline	0.76	U	0.76	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
4-Chloro-3-methylphenol	0.37	U	0.37	0.18	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
2-Chloronaphthalene	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
2-Chlorophenol	0.19	U	0.19	0.054	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
4-Chlorophenyl phenyl ether	0.19	U	0.19	0.059	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Chrysene	0.037	U	0.037	0.0085	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Diallate	0.19	U	0.19	0.038	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Dibenz(a,h)anthracene	0.037	U	0.037	0.010	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Dibenz[a,j]acridine	0.19	U	0.19	0.021	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Dibenzofuran	0.19	U	0.19	0.045	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
1,2-Dichlorobenzene	0.19	U	0.19	0.041	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
1,3-Dichlorobenzene	0.19	U	0.19	0.039	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
1,4-Dichlorobenzene	0.19	U	0.19	0.039	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
3,3'-Dichlorobenzidine	0.19	U	0.19	0.031	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
2,4-Dichlorophenol	0.37	U	0.37	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
2,6-Dichlorophenol	0.19	U	0.19	0.053	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Diethyl phthalate	0.19	U	0.19	0.063	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Diethylstilbestrol	0.76	U	0.76	0.094	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Dimethoate	0.37	U	0.37	0.084	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
7,12-Dimethylbenz(a)anthracene	0.19	U	0.19	0.046	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
3,3'-Dimethylbenzidine	0.76	U	0.76	0.20	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
2,4-Dimethylphenol	0.37	U	0.37	0.12	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Dimethyl phthalate	0.19	U	0.19	0.047	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Di-n-butyl phthalate	0.19	U	0.19	0.047	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
1,4-Dinitrobenzene	0.19	U	0.19	0.029	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
4,6-Dinitro-2-methylphenol	0.37	U	0.37	0.091	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
2,4-Dinitrophenol	0.76	U	0.76	0.19	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
2,4-Dinitrotoluene	0.19	U	0.19	0.058	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
2,6-Dinitrotoluene	0.19	U	0.19	0.045	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Di-n-octyl phthalate	0.19	U	0.19	0.076	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Dinoseb	0.37	U	0.37	0.097	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
1,4-Dioxane	0.76	U	0.76	0.25	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Diphenylamine	0.19	U	0.19	0.043	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
1,2-Diphenylhydrazine	0.19	U	0.19	0.048	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Disulfoton	0.37	U	0.37	0.057	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Ethyl 4,4'-Dichlorobenzilate	0.19	U	0.19	0.024	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Ethyl methanesulfonate	0.19	U	0.19	0.021	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Ethyl Parathion	0.37	U	0.37	0.10	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Famphur	0.37	U	0.37	0.061	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Fluoranthene	0.037	U	0.037	0.015	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Fluorene	0.037	U	0.037	0.0085	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Hexachlorobenzene	0.076	U	0.076	0.0074	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Hexachlorobutadiene	0.19	U	0.19	0.049	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Hexachlorocyclopentadiene	0.76	U	0.76	0.17	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Hexachloroethane	0.19	U	0.19	0.040	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Hexachlorophene	3.7	U	3.7	1.4	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Hexachloropropene	0.37	U	0.37	0.15	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Indeno[1,2,3-cd]pyrene	0.037	U	0.037	0.013	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-4-12-14-20130313-01
Date Collected: 03/13/13 09:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-24
Matrix: Solid
Percent Solids: 85.2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Isosafrole	0.19	U	0.19	0.020	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Kepone	0.76	U	0.76	0.37	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Malathion	0.37	U	0.37	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
m-Dinitrobenzene	0.19	U	0.19	0.035	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Methapyrilene	1.5	U	1.5	0.20	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
3-Methylcholanthrene	0.19	U	0.19	0.016	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Methyl methanesulfonate	0.19	U	0.19	0.031	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
2-Methylnaphthalene	0.19	U	0.19	0.049	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Methyl parathion	0.37	U	0.37	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
2-Methylphenol	0.19	U	0.19	0.050	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
3 & 4 Methylphenol	0.19	U	0.19	0.071	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Naphthalene	0.037	U	0.037	0.0072	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
1,4-Naphthoquinone	0.76	U	0.76	0.37	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
1-Naphthylamine	0.19	U	0.19	0.029	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
2-Naphthylamine	0.19	U	0.19	0.051	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
2-Nitroaniline	0.19	U	0.19	0.068	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
3-Nitroaniline	0.37	U	0.37	0.072	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
4-Nitroaniline	0.37	U	0.37	0.077	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Nitrobenzene	0.037	U	0.037	0.012	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
5-Nitro-o-toluidine	0.19	U	0.19	0.035	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
2-Nitrophenol	0.37	U	0.37	0.059	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
4-Nitrophenol	0.76	U	0.76	0.20	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
4-Nitroquinoline-1-oxide	0.76	U	0.76	0.35	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
N-Nitrosodiethylamine	0.37	U	0.37	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
N-Nitrosodimethylamine	0.76	U	0.76	0.41	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
N-Nitrosodi-n-butylamine	0.19	U	0.19	0.067	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
N-Nitrosodi-n-propylamine	0.19	U	0.19	0.048	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
N-Nitrosodiphenylamine	0.19	U	0.19	0.051	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
N-Nitrosomethylethylamine	0.76	U	0.76	0.31	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
N-Nitrosomorpholine	0.19	U	0.19	0.035	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
N-Nitrosopiperidine	0.37	U	0.37	0.035	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
N-Nitrosopyrrolidine	0.19	U	0.19	0.043	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
o,o',o''-Triethylphosphorothioate	0.37	U	0.37	0.058	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
o-Toluidine	0.19	U	0.19	0.036	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
2,2'-oxybis[1-chloropropane]	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
p-Dimethylamino azobenzene	0.19	U	0.19	0.020	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Pentachlorobenzene	0.19	U	0.19	0.047	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Pentachloronitrobenzene	0.19	U	0.19	0.027	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Pentachlorophenol	0.76	U	0.76	0.19	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Phenacetin	0.19	U	0.19	0.039	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Phenanthrene	0.037	U	0.037	0.016	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Phenol	0.19	U	0.19	0.059	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Phorate	0.37	U	0.37	0.079	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
2-Picoline	0.37	U	0.37	0.14	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
p-Phenylene diamine	1.5	U	1.5	0.079	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Pronamide	0.19	U	0.19	0.030	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Pyrene	0.037	U	0.037	0.014	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Pyridine	0.76	U	0.76	0.45	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1

Client Sample ID: DDSB-4-12-14-20130313-01
Date Collected: 03/13/13 09:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-24
Matrix: Solid
Percent Solids: 85.2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole	0.19	U	0.19	0.018	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Sulfotepp	0.37	U	0.37	0.075	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
sym-Trinitrobenzene	0.76	U	0.76	0.38	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
1,2,4,5-Tetrachlorobenzene	0.19	U	0.19	0.044	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
2,3,4,6-Tetrachlorophenol	0.19	U	0.19	0.051	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
Thionazin	0.37	U	0.37	0.084	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
1,2,4-Trichlorobenzene	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
2,4,5-Trichlorophenol	0.37	U	0.37	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1
2,4,6-Trichlorophenol	0.37	U	0.37	0.047	mg/Kg	☼	03/15/13 07:34	03/25/13 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*30 - 119*	*03/15/13 07:34*	*03/25/13 15:54*	*1*
2-Fluorophenol	*71*		*30 - 110*	*03/15/13 07:34*	*03/25/13 15:54*	*1*
Nitrobenzene-d5	*69*		*30 - 115*	*03/15/13 07:34*	*03/25/13 15:54*	*1*
Phenol-d5	*71*		*31 - 110*	*03/15/13 07:34*	*03/25/13 15:54*	*1*
Terphenyl-d14	*79*		*36 - 134*	*03/15/13 07:34*	*03/25/13 15:54*	*1*
2,4,6-Tribromophenol	*80*		*35 - 137*	*03/15/13 07:34*	*03/25/13 15:54*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0019	U	0.0019	0.00078	mg/Kg	☼	03/15/13 07:24	03/26/13 14:05	1
alpha-BHC	0.0019	U	0.0019	0.00047	mg/Kg	☼	03/15/13 07:24	03/26/13 14:05	1
beta-BHC	0.0019	U	0.0019	0.00058	mg/Kg	☼	03/15/13 07:24	03/26/13 14:05	1
Chlordane (technical)	0.0075	U	0.0075	0.0036	mg/Kg	☼	03/15/13 07:24	03/26/13 14:05	1
4,4'-DDD	0.0019	U	0.0019	0.00037	mg/Kg	☼	03/15/13 07:24	03/26/13 14:05	1
4,4'-DDE	0.0019	U	0.0019	0.00031	mg/Kg	☼	03/15/13 07:24	03/26/13 14:05	1
4,4'-DDT	0.0019	U	0.0019	0.00098	mg/Kg	☼	03/15/13 07:24	03/26/13 14:05	1
delta-BHC	0.0019	U	0.0019	0.00059	mg/Kg	☼	03/15/13 07:24	03/26/13 14:05	1
Dieldrin	0.0019	U	0.0019	0.00026	mg/Kg	☼	03/15/13 07:24	03/26/13 14:05	1
Endosulfan I	0.0019	U	0.0019	0.00082	mg/Kg	☼	03/15/13 07:24	03/26/13 14:05	1
Endosulfan II	0.0019	U	0.0019	0.00030	mg/Kg	☼	03/15/13 07:24	03/26/13 14:05	1
Endosulfan sulfate	0.0019	U	0.0019	0.00034	mg/Kg	☼	03/15/13 07:24	03/26/13 14:05	1
Endrin	0.0019	U	0.0019	0.00026	mg/Kg	☼	03/15/13 07:24	03/26/13 14:05	1
Endrin aldehyde	0.0019	U	0.0019	0.00031	mg/Kg	☼	03/15/13 07:24	03/26/13 14:05	1
Endrin ketone	0.0019	U	0.0019	0.00042	mg/Kg	☼	03/15/13 07:24	03/26/13 14:05	1
gamma-BHC (Lindane)	0.0019	U	0.0019	0.00041	mg/Kg	☼	03/15/13 07:24	03/26/13 14:05	1
Heptachlor	0.0019	U	0.0019	0.00078	mg/Kg	☼	03/15/13 07:24	03/26/13 14:05	1
Heptachlor epoxide	0.0019	U	0.0019	0.00066	mg/Kg	☼	03/15/13 07:24	03/26/13 14:05	1
Isodrin	0.0019	U	0.0019	0.00087	mg/Kg	☼	03/15/13 07:24	03/26/13 14:05	1
Methoxychlor	0.0093	U	0.0093	0.00036	mg/Kg	☼	03/15/13 07:24	03/26/13 14:05	1
Toxaphene	0.019	U	0.019	0.0079	mg/Kg	☼	03/15/13 07:24	03/26/13 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*64*		*56 - 128*	*03/15/13 07:24*	*03/26/13 14:05*	*1*
Tetrachloro-m-xylene	*45*		*45 - 112*	*03/15/13 07:24*	*03/26/13 14:05*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.019	U	0.019	0.0066	mg/Kg	☼	03/15/13 07:24	03/20/13 12:11	1
PCB-1221	0.019	U	0.019	0.0082	mg/Kg	☼	03/15/13 07:24	03/20/13 12:11	1

Client Sample ID: DDSB-4-12-14-20130313-01
Date Collected: 03/13/13 09:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-24
Matrix: Solid
Percent Solids: 85.2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	0.019	U	0.019	0.0081	mg/Kg	☼	03/15/13 07:24	03/20/13 12:11	1
PCB-1242	0.019	U	0.019	0.0061	mg/Kg	☼	03/15/13 07:24	03/20/13 12:11	1
PCB-1248	0.019	U	0.019	0.0074	mg/Kg	☼	03/15/13 07:24	03/20/13 12:11	1
PCB-1254	0.019	U	0.019	0.0040	mg/Kg	☼	03/15/13 07:24	03/20/13 12:11	1
PCB-1260	0.019	U	0.019	0.0092	mg/Kg	☼	03/15/13 07:24	03/20/13 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*50 - 116*	*03/15/13 07:24*	*03/20/13 12:11*	*1*
DCB Decachlorobiphenyl	*77*		*48 - 142*	*03/15/13 07:24*	*03/20/13 12:11*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.077	U	0.077	0.0034	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Azinphos-methyl	0.077	U	0.077	0.017	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Bolstar	0.038	U	0.038	0.0055	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Carbophenthion	0.077	U	0.077	0.0062	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Chlorpyrifos	0.038	U	0.038	0.0079	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Chlorpyrifos-methyl	0.038	U	0.038	0.014	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Coumaphos	0.38	U	0.38	0.026	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Demeton-O	0.096	U	0.096	0.0030	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Demeton-S	0.096	U	0.096	0.0065	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Demeton, Total	0.096	U	0.096	0.0089	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Diazinon	0.038	U	0.038	0.0066	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Dichlofenthion	0.038	U	0.038	0.0049	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Dichlorvos	0.077	U	0.077	0.0074	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Dimethoate	0.077	U	0.077	0.010	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Disulfoton	0.077	U	0.077	0.019	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
EPN	0.038	U	0.038	0.0052	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Ethion	0.020	U	0.020	0.0062	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Ethoprop	0.020	U	0.020	0.0049	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Ethyl Parathion	0.038	U	0.038	0.0064	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Famphur	0.077	U	0.077	0.0096	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Fensulfothion	0.38	U	0.38	0.014	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Fenthion	0.038	U	0.038	0.0055	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Malathion	0.038	U	0.038	0.0095	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Merphos	0.038	U	0.038	0.013	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Methyl parathion	0.020	U	0.020	0.0063	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Mevinphos	0.077	U	0.077	0.0053	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Monochrotophos	0.38	U	0.38	0.053	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Naled	0.38	U	0.38	0.026	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Phorate	0.038	U	0.038	0.0063	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Ronnel	0.038	U	0.038	0.0049	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Simazine	0.077	U	0.077	0.0037	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Stirophos	0.038	U	0.038	0.0074	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Sulfotepp	0.020	U	0.020	0.010	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Terbufos	0.020	U	0.020	0.019	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Thionazin	0.038	U	0.038	0.012	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Tokuthion	0.038	U	0.038	0.0063	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1
Trichloronate	0.38	U	0.38	0.0088	mg/Kg	☼	03/16/13 09:29	04/02/13 10:50	1

Client Sample ID: DDSB-4-12-14-20130313-01
Date Collected: 03/13/13 09:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-24
Matrix: Solid
Percent Solids: 85.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate (TPP)	*39*		*35 - 134*	*03/16/13 09:29*	*04/02/13 10:50*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3300**		21	10	mg/Kg	☼	03/17/13 10:25	03/18/13 23:56	1
Antimony	2.1	U	2.1	0.56	mg/Kg	☼	03/17/13 10:25	03/18/13 23:56	1
Arsenic	2.1	U	2.1	0.62	mg/Kg	☼	03/17/13 10:25	03/18/13 23:56	1
Barium	**3.6**		1.0	0.31	mg/Kg	☼	03/17/13 10:25	03/18/13 23:56	1
Beryllium	**0.36**	**J**	0.42	0.021	mg/Kg	☼	03/17/13 10:25	03/18/13 23:56	1
Cadmium	0.52	U	0.52	0.10	mg/Kg	☼	03/17/13 10:25	03/18/13 23:56	1
Calcium	52	U	52	21	mg/Kg	☼	03/17/13 10:25	03/18/13 23:56	1
Chromium	**9.9**		1.0	0.52	mg/Kg	☼	03/17/13 10:25	03/18/13 23:56	1
Cobalt	**0.77**	**J**	1.0	0.13	mg/Kg	☼	03/17/13 10:25	03/18/13 23:56	1
Copper	**11**		2.6	1.2	mg/Kg	☼	03/17/13 10:25	03/18/13 23:56	1
Iron	**20000**		21	7.3	mg/Kg	☼	03/17/13 10:25	03/18/13 23:56	1
Lead	**4.4**		1.0	0.56	mg/Kg	☼	03/17/13 10:25	03/18/13 23:56	1
Magnesium	**77**		52	2.5	mg/Kg	☼	03/17/13 10:25	03/18/13 23:56	1
Manganese	**19**		1.0	0.31	mg/Kg	☼	03/17/13 10:25	03/18/13 23:56	1
Nickel	**1.5**	**J**	4.2	0.32	mg/Kg	☼	03/17/13 10:25	03/18/13 23:56	1
Potassium	**140**		100	8.4	mg/Kg	☼	03/17/13 10:25	03/18/13 23:56	1
Selenium	2.6	U	2.6	1.0	mg/Kg	☼	03/17/13 10:25	03/18/13 23:56	1
Silver	1.0	U	1.0	0.10	mg/Kg	☼	03/17/13 10:25	03/18/13 23:56	1
Sodium	210	U	210	86	mg/Kg	☼	03/17/13 10:25	03/18/13 23:56	1
Thallium	2.6	U	2.6	1.0	mg/Kg	☼	03/17/13 10:25	03/18/13 23:56	1
Vanadium	**42**		1.0	0.25	mg/Kg	☼	03/17/13 10:25	03/18/13 23:56	1
Zinc	**4.5**		2.1	1.3	mg/Kg	☼	03/17/13 10:25	03/18/13 23:56	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023	U	0.023	0.0094	mg/Kg	☼	03/14/13 11:34	03/15/13 17:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	**0.71**	**J**	1.1	0.33	mg/Kg	☼	03/15/13 10:20	03/16/13 11:20	1
Cyanide, Total	0.59	U	0.59	0.25	mg/Kg	☼	03/14/13 10:30	03/15/13 10:03	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-3-0-2-20130313-01
Date Collected: 03/13/13 09:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-25
Matrix: Solid
Percent Solids: 90.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.012	J	0.043	0.0095	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Benzene	0.0043	U	0.0043	0.00063	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Bromobenzene	0.0043	U	0.0043	0.0015	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Bromochloromethane	0.0043	U	0.0043	0.0028	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Bromodichloromethane	0.0043	U	0.0043	0.00084	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Bromoform	0.0043	U	0.0043	0.0013	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Bromomethane	0.0043	U	0.0043	0.0013	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
2-Butanone	0.022	U	0.022	0.0021	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Carbon disulfide	0.0043	U	0.0043	0.00095	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Carbon tetrachloride	0.0043	U	0.0043	0.00072	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Chlorobenzene	0.0043	U	0.0043	0.00083	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Chlorodibromomethane	0.0043	U	0.0043	0.0015	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Chloroethane	0.0043	U	0.0043	0.0023	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Chloroform	0.0043	U	0.0043	0.00095	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Chloromethane	0.0043	U	0.0043	0.00086	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
2-Chlorotoluene	0.0043	U	0.0043	0.0017	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
4-Chlorotoluene	0.0043	U	0.0043	0.0015	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
cis-1,2-Dichloroethene	0.0043	U	0.0043	0.0012	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
cis-1,3-Dichloropropene	0.0043	U	0.0043	0.00072	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Cyclohexane	0.0086	U	0.0086	0.0011	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
1,2-Dibromo-3-Chloropropane	0.0086	U	0.0086	0.0038	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
1,2-Dibromoethane	0.0043	U	0.0043	0.0013	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Dibromomethane	0.0043	U	0.0043	0.0015	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
1,2-Dichlorobenzene	0.0043	U	0.0043	0.0011	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
1,3-Dichlorobenzene	0.0043	U	0.0043	0.0014	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
1,4-Dichlorobenzene	0.0043	U	0.0043	0.00064	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Dichlorodifluoromethane	0.0043	U	0.0043	0.00081	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
1,1-Dichloroethane	0.0043	U	0.0043	0.00095	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
1,2-Dichloroethane	0.0043	U	0.0043	0.00095	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
1,1-Dichloroethene	0.0043	U	0.0043	0.0013	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
1,2-Dichloropropane	0.0043	U	0.0043	0.00074	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
2,2-Dichloropropane	0.0043	U	0.0043	0.00095	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
1,3-Dichloropropane	0.0043	U	0.0043	0.0016	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
1,1-Dichloropropene	0.0043	U	0.0043	0.00082	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Ethylbenzene	0.0043	U	0.0043	0.0011	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Hexachlorobutadiene	0.0043	U	0.0043	0.0027	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
2-Hexanone	0.022	U	0.022	0.0028	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Isopropylbenzene	0.0043	U	0.0043	0.0016	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Methyl acetate	0.0086	U	0.0086	0.0043	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Methylcyclohexane	0.0086	U	0.0086	0.00074	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Methylene Chloride	0.0043	U	0.0043	0.00085	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
4-Methyl-2-pentanone	0.022	U	0.022	0.0036	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Methyl tert-butyl ether	0.0086	U	0.0086	0.00086	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Naphthalene	0.0043	U	0.0043	0.0010	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
n-Butylbenzene	0.0043	U	0.0043	0.0021	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
N-Propylbenzene	0.0043	U	0.0043	0.0023	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
p-Isopropyltoluene	0.0043	U	0.0043	0.0019	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
sec-Butylbenzene	0.0043	U	0.0043	0.0018	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Styrene	0.0043	U	0.0043	0.00080	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1

Client Sample ID: DDSB-3-0-2-20130313-01
Date Collected: 03/13/13 09:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-25
Matrix: Solid
Percent Solids: 90.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.0043	U	0.0043	0.0016	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
1,1,2,2-Tetrachloroethane	0.0043	U	0.0043	0.0014	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
1,1,1,2-Tetrachloroethane	0.0043	U	0.0043	0.0021	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Tetrachloroethene	0.0043	U	0.0043	0.0016	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Toluene	0.0043	U	0.0043	0.00072	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
trans-1,2-Dichloroethene	0.0043	U	0.0043	0.00054	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
trans-1,3-Dichloropropene	0.0043	U	0.0043	0.00075	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
1,2,4-Trichlorobenzene	0.0043	U	0.0043	0.00077	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
1,2,3-Trichlorobenzene	0.0043	U	0.0043	0.0014	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
1,1,1-Trichloroethane	0.0043	U	0.0043	0.00051	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
1,1,2-Trichloroethane	0.0043	U	0.0043	0.0011	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Trichloroethene	0.0043	U	0.0043	0.0011	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Trichlorofluoromethane	0.0043	U	0.0043	0.0010	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
1,2,3-Trichloropropane	0.0043	U	0.0043	0.0021	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0043	U	0.0043	0.0011	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
1,2,4-Trimethylbenzene	0.0043	U	0.0043	0.0012	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
1,3,5-Trimethylbenzene	0.0043	U	0.0043	0.0015	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Vinyl chloride	0.0043	U	0.0043	0.0013	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1
Xylenes, Total	0.0086	U	0.0086	0.00095	mg/Kg	☼	03/18/13 10:38	03/19/13 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*65 - 130*	*03/18/13 10:38*	*03/19/13 17:21*	*1*
Dibromofluoromethane	*90*		*65 - 130*	*03/18/13 10:38*	*03/19/13 17:21*	*1*
Toluene-d8 (Surr)	*97*		*65 - 130*	*03/18/13 10:38*	*03/19/13 17:21*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.019**	**J**	0.035	0.011	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Acenaphthylene	0.035	U	0.035	0.0081	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Acetophenone	0.35	U	0.35	0.064	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
2-Acetylaminofluorene	0.18	U	0.18	0.033	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
alpha,alpha-Dimethyl phenethylamine	1.4	U	1.4	0.42	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
4-Aminobiphenyl	0.18	U	0.18	0.072	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Aniline	0.71	U	0.71	0.32	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Anthracene	0.035	U	0.035	0.0083	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Aramite	0.18	U	0.18	0.035	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Benzenethiol	0.71	U	0.71	0.35	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Benzidine	0.71	U *	0.71	0.35	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Benzo[a]anthracene	**0.039**		0.035	0.0074	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Benzo[a]pyrene	**0.032**	**J**	0.035	0.0064	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Benzo[b]fluoranthene	**0.047**		0.035	0.0069	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Benzo[g,h,i]perylene	**0.026**	**J**	0.035	0.012	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Benzoic acid	1.8	U	1.8	0.49	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Benzo[k]fluoranthene	**0.019**	**J**	0.035	0.0084	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Benzyl alcohol	0.35	U	0.35	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Bis(2-chloroethoxy)methane	0.18	U	0.18	0.039	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Bis(2-chloroethyl)ether	0.18	U	0.18	0.052	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Bis(2-ethylhexyl) phthalate	0.18	U	0.18	0.047	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
4-Bromophenyl phenyl ether	0.18	U	0.18	0.039	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Butyl benzyl phthalate	0.18	U	0.18	0.044	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-3-0-2-20130313-01
Date Collected: 03/13/13 09:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-25
Matrix: Solid
Percent Solids: 90.6

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	0.35	U	0.35	0.082	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
4-Chloroaniline	0.71	U	0.71	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
4-Chloro-3-methylphenol	0.35	U	0.35	0.17	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
2-Chloronaphthalene	0.18	U	0.18	0.040	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
2-Chlorophenol	0.18	U	0.18	0.051	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
4-Chlorophenyl phenyl ether	0.18	U	0.18	0.056	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Chrysene	**0.047**		0.035	0.0080	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Diallate	0.18	U	0.18	0.035	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Dibenz(a,h)anthracene	0.035	U	0.035	0.0099	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Dibenz[a,j]acridine	0.18	U	0.18	0.019	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Dibenzofuran	**0.061**	**J**	0.18	0.042	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
1,2-Dichlorobenzene	0.18	U	0.18	0.039	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
1,3-Dichlorobenzene	0.18	U	0.18	0.037	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
1,4-Dichlorobenzene	0.18	U	0.18	0.037	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
3,3'-Dichlorobenzidine	0.18	U	0.18	0.029	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
2,4-Dichlorophenol	0.35	U	0.35	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
2,6-Dichlorophenol	0.18	U	0.18	0.050	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Diethyl phthalate	0.18	U	0.18	0.059	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Diethylstilbestrol	0.71	U	0.71	0.088	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Dimethoate	0.35	U	0.35	0.079	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
7,12-Dimethylbenz(a)anthracene	0.18	U	0.18	0.043	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
3,3'-Dimethylbenzidine	0.71	U	0.71	0.18	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
2,4-Dimethylphenol	0.35	U	0.35	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Dimethyl phthalate	0.18	U	0.18	0.044	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Di-n-butyl phthalate	0.18	U	0.18	0.045	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
1,4-Dinitrobenzene	0.18	U	0.18	0.028	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
4,6-Dinitro-2-methylphenol	0.35	U	0.35	0.086	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
2,4-Dinitrophenol	0.71	U	0.71	0.18	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
2,4-Dinitrotoluene	0.18	U	0.18	0.054	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
2,6-Dinitrotoluene	0.18	U	0.18	0.042	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Di-n-octyl phthalate	0.18	U	0.18	0.072	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Dinoseb	0.35	U	0.35	0.091	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
1,4-Dioxane	0.71	U	0.71	0.24	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Diphenylamine	0.18	U	0.18	0.041	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
1,2-Diphenylhydrazine	0.18	U	0.18	0.045	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Disulfoton	0.35	U	0.35	0.053	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Ethyl 4,4'-Dichlorobenzilate	0.18	U	0.18	0.022	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Ethyl methanesulfonate	0.18	U	0.18	0.020	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Ethyl Parathion	0.35	U	0.35	0.099	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Famphur	0.35	U	0.35	0.057	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Fluoranthene	**0.069**		0.035	0.014	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Fluorene	0.035	U	0.035	0.0080	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Hexachlorobenzene	0.071	U	0.071	0.0070	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Hexachlorobutadiene	0.18	U	0.18	0.046	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Hexachlorocyclopentadiene	0.71	U	0.71	0.16	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Hexachloroethane	0.18	U	0.18	0.038	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Hexachlorophene	3.5	U	3.5	1.3	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Hexachloropropene	0.35	U	0.35	0.14	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Indeno[1,2,3-cd]pyrene	**0.020**	**J**	0.035	0.012	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1

Client Sample ID: DDSB-3-0-2-20130313-01
Date Collected: 03/13/13 09:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-25
Matrix: Solid
Percent Solids: 90.6

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	0.18	U	0.18	0.039	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Isosafrole	0.18	U	0.18	0.019	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Kepone	0.71	U	0.71	0.35	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Malathion	0.35	U	0.35	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
m-Dinitrobenzene	0.18	U	0.18	0.033	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Methapyrilene	1.4	U	1.4	0.18	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
3-Methylcholanthrene	0.18	U	0.18	0.015	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Methyl methanesulfonate	0.18	U	0.18	0.029	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
2-Methylnaphthalene	**0.21**		0.18	0.046	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Methyl parathion	0.35	U	0.35	0.10	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
2-Methylphenol	0.18	U	0.18	0.047	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
3 & 4 Methylphenol	0.18	U	0.18	0.067	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Naphthalene	**0.13**		0.035	0.0068	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
1,4-Naphthoquinone	0.71	U	0.71	0.35	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
1-Naphthylamine	0.18	U	0.18	0.027	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
2-Naphthylamine	0.18	U	0.18	0.048	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
2-Nitroaniline	0.18	U	0.18	0.064	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
3-Nitroaniline	0.35	U	0.35	0.068	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
4-Nitroaniline	0.35	U	0.35	0.072	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Nitrobenzene	0.035	U	0.035	0.011	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
5-Nitro-o-toluidine	0.18	U	0.18	0.033	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
2-Nitrophenol	0.35	U	0.35	0.055	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
4-Nitrophenol	0.71	U	0.71	0.19	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
4-Nitroquinoline-1-oxide	0.71	U	0.71	0.33	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
N-Nitrosodiethylamine	0.35	U	0.35	0.10	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
N-Nitrosodimethylamine	0.71	U	0.71	0.39	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
N-Nitrosodi-n-butylamine	0.18	U	0.18	0.063	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
N-Nitrosodi-n-propylamine	0.18	U	0.18	0.045	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
N-Nitrosodiphenylamine	0.18	U	0.18	0.048	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
N-Nitrosomethylethylamine	0.71	U	0.71	0.29	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
N-Nitrosomorpholine	0.18	U	0.18	0.033	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
N-Nitrosopiperidine	0.35	U	0.35	0.033	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
N-Nitrosopyrrolidine	0.18	U	0.18	0.041	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
o,o',o''-Triethylphosphorothioate	0.35	U	0.35	0.054	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
o-Toluidine	0.18	U	0.18	0.034	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
2,2'-oxybis[1-chloropropane]	0.18	U	0.18	0.039	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
p-Dimethylamino azobenzene	0.18	U	0.18	0.019	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Pentachlorobenzene	0.18	U	0.18	0.045	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Pentachloronitrobenzene	0.18	U	0.18	0.025	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Pentachlorophenol	0.71	U	0.71	0.18	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Phenacetin	0.18	U	0.18	0.037	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Phenanthrene	**0.11**		0.035	0.015	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Phenol	0.18	U	0.18	0.056	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Phorate	0.35	U	0.35	0.075	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
2-Picoline	0.35	U	0.35	0.13	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
p-Phenylene diamine	1.4	U	1.4	0.075	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Pronamide	0.18	U	0.18	0.029	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Pyrene	**0.069**		0.035	0.013	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Pyridine	0.71	U	0.71	0.42	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-3-0-2-20130313-01
Date Collected: 03/13/13 09:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-25
Matrix: Solid
Percent Solids: 90.6

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole	0.18	U	0.18	0.017	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Sulfotepp	0.35	U	0.35	0.071	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
sym-Trinitrobenzene	0.71	U	0.71	0.36	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
1,2,4,5-Tetrachlorobenzene	0.18	U	0.18	0.042	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
2,3,4,6-Tetrachlorophenol	0.18	U	0.18	0.048	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
Thionazin	0.35	U	0.35	0.079	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
1,2,4-Trichlorobenzene	0.18	U	0.18	0.040	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
2,4,5-Trichlorophenol	0.35	U	0.35	0.10	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1
2,4,6-Trichlorophenol	0.35	U	0.35	0.044	mg/Kg	☼	03/15/13 07:34	03/25/13 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*30 - 119*	*03/15/13 07:34*	*03/25/13 16:12*	*1*
2-Fluorophenol	*66*		*30 - 110*	*03/15/13 07:34*	*03/25/13 16:12*	*1*
Nitrobenzene-d5	*67*		*30 - 115*	*03/15/13 07:34*	*03/25/13 16:12*	*1*
Phenol-d5	*69*		*31 - 110*	*03/15/13 07:34*	*03/25/13 16:12*	*1*
Terphenyl-d14	*76*		*36 - 134*	*03/15/13 07:34*	*03/25/13 16:12*	*1*
2,4,6-Tribromophenol	*81*		*35 - 137*	*03/15/13 07:34*	*03/25/13 16:12*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0019	U	0.0019	0.00076	mg/Kg	☼	03/15/13 07:24	03/26/13 14:26	1
alpha-BHC	0.0019	U	0.0019	0.00047	mg/Kg	☼	03/15/13 07:24	03/26/13 14:26	1
beta-BHC	0.0019	U	0.0019	0.00057	mg/Kg	☼	03/15/13 07:24	03/26/13 14:26	1
Chlordane (technical)	0.0074	U	0.0074	0.0036	mg/Kg	☼	03/15/13 07:24	03/26/13 14:26	1
4,4'-DDD	0.0019	U	0.0019	0.00037	mg/Kg	☼	03/15/13 07:24	03/26/13 14:26	1
4,4'-DDE	0.0019	U	0.0019	0.00030	mg/Kg	☼	03/15/13 07:24	03/26/13 14:26	1
4,4'-DDT	0.0019	U	0.0019	0.00097	mg/Kg	☼	03/15/13 07:24	03/26/13 14:26	1
delta-BHC	0.0019	U	0.0019	0.00058	mg/Kg	☼	03/15/13 07:24	03/26/13 14:26	1
Dieldrin	0.0019	U	0.0019	0.00025	mg/Kg	☼	03/15/13 07:24	03/26/13 14:26	1
Endosulfan I	0.0019	U	0.0019	0.00080	mg/Kg	☼	03/15/13 07:24	03/26/13 14:26	1
Endosulfan II	0.0019	U	0.0019	0.00030	mg/Kg	☼	03/15/13 07:24	03/26/13 14:26	1
Endosulfan sulfate	0.0019	U	0.0019	0.00034	mg/Kg	☼	03/15/13 07:24	03/26/13 14:26	1
Endrin	0.0019	U	0.0019	0.00025	mg/Kg	☼	03/15/13 07:24	03/26/13 14:26	1
Endrin aldehyde	0.0019	U	0.0019	0.00031	mg/Kg	☼	03/15/13 07:24	03/26/13 14:26	1
Endrin ketone	0.0019	U	0.0019	0.00042	mg/Kg	☼	03/15/13 07:24	03/26/13 14:26	1
gamma-BHC (Lindane)	0.0019	U	0.0019	0.00040	mg/Kg	☼	03/15/13 07:24	03/26/13 14:26	1
Heptachlor	0.0019	U	0.0019	0.00077	mg/Kg	☼	03/15/13 07:24	03/26/13 14:26	1
Heptachlor epoxide	0.0019	U	0.0019	0.00065	mg/Kg	☼	03/15/13 07:24	03/26/13 14:26	1
Isodrin	0.0019	U	0.0019	0.00085	mg/Kg	☼	03/15/13 07:24	03/26/13 14:26	1
Methoxychlor	0.0091	U	0.0091	0.00036	mg/Kg	☼	03/15/13 07:24	03/26/13 14:26	1
Toxaphene	0.018	U	0.018	0.0077	mg/Kg	☼	03/15/13 07:24	03/26/13 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*56 - 128*	*03/15/13 07:24*	*03/26/13 14:26*	*1*
Tetrachloro-m-xylene	*58*		*45 - 112*	*03/15/13 07:24*	*03/26/13 14:26*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.018	U	0.018	0.0065	mg/Kg	☼	03/15/13 07:24	03/20/13 12:25	1
PCB-1221	0.018	U	0.018	0.0081	mg/Kg	☼	03/15/13 07:24	03/20/13 12:25	1

Client Sample ID: DDSB-3-0-2-20130313-01
Date Collected: 03/13/13 09:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-25
Matrix: Solid
Percent Solids: 90.6

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	0.018	U	0.018	0.0080	mg/Kg	☼	03/15/13 07:24	03/20/13 12:25	1
PCB-1242	0.018	U	0.018	0.0060	mg/Kg	☼	03/15/13 07:24	03/20/13 12:25	1
PCB-1248	0.018	U	0.018	0.0072	mg/Kg	☼	03/15/13 07:24	03/20/13 12:25	1
PCB-1254	0.018	U	0.018	0.0040	mg/Kg	☼	03/15/13 07:24	03/20/13 12:25	1
PCB-1260	0.018	U	0.018	0.0090	mg/Kg	☼	03/15/13 07:24	03/20/13 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*50 - 116*	*03/15/13 07:24*	*03/20/13 12:25*	*1*
DCB Decachlorobiphenyl	*92*		*48 - 142*	*03/15/13 07:24*	*03/20/13 12:25*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.072	U	0.072	0.0032	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Azinphos-methyl	0.072	U	0.072	0.016	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Bolstar	0.036	U	0.036	0.0051	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Carbophenthion	0.072	U	0.072	0.0058	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Chlorpyrifos	0.036	U	0.036	0.0074	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Chlorpyrifos-methyl	0.036	U	0.036	0.013	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Coumaphos	0.36	U	0.36	0.024	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Demeton-O	0.091	U	0.091	0.0028	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Demeton-S	0.091	U	0.091	0.0061	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Demeton, Total	0.091	U	0.091	0.0084	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Diazinon	0.036	U	0.036	0.0062	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Dichlofenthion	0.036	U	0.036	0.0046	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Dichlorvos	0.072	U	0.072	0.0070	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Dimethoate	0.072	U	0.072	0.0096	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Disulfoton	0.072	U	0.072	0.017	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
EPN	0.036	U	0.036	0.0049	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Ethion	0.019	U	0.019	0.0058	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Ethoprop	0.019	U	0.019	0.0046	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Ethyl Parathion	0.036	U	0.036	0.0060	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Famphur	0.072	U	0.072	0.0091	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Fensulfothion	0.36	U	0.36	0.013	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Fenthion	0.036	U	0.036	0.0051	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Malathion	0.036	U	0.036	0.0090	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Merphos	0.036	U	0.036	0.012	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Methyl parathion	0.019	U	0.019	0.0059	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Mevinphos	0.072	U	0.072	0.0050	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Monochrotophos	0.36	U	0.36	0.050	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Naled	0.36	U	0.36	0.024	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Phorate	0.036	U	0.036	0.0059	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Ronnel	0.036	U	0.036	0.0046	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Simazine	0.072	U	0.072	0.0035	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Stirophos	0.036	U	0.036	0.0070	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Sulfotepp	0.019	U	0.019	0.0094	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Terbufos	0.019	U	0.019	0.017	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Thionazin	0.036	U	0.036	0.011	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Tokuthion	0.036	U	0.036	0.0059	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1
Trichloronate	0.36	U	0.36	0.0083	mg/Kg	☼	03/16/13 09:29	04/02/13 12:49	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-3-0-2-20130313-01
Date Collected: 03/13/13 09:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-25
Matrix: Solid
Percent Solids: 90.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate (TPP)	*76*		*35 - 134*	*03/16/13 09:29*	*04/02/13 12:49*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4500**		19	9.5	mg/Kg	☼	03/17/13 10:25	03/19/13 00:01	1
Antimony	**1.3**	**J**	1.9	0.50	mg/Kg	☼	03/17/13 10:25	03/19/13 00:01	1
Arsenic	**4.2**		1.9	0.56	mg/Kg	☼	03/17/13 10:25	03/19/13 00:01	1
Barium	**52**		0.95	0.29	mg/Kg	☼	03/17/13 10:25	03/19/13 00:01	1
Beryllium	**0.17**	**J**	0.38	0.019	mg/Kg	☼	03/17/13 10:25	03/19/13 00:01	1
Cadmium	0.48	U	0.48	0.095	mg/Kg	☼	03/17/13 10:25	03/19/13 00:01	1
Calcium	**2900**		48	19	mg/Kg	☼	03/17/13 10:25	03/19/13 00:01	1
Chromium	**28**		0.95	0.48	mg/Kg	☼	03/17/13 10:25	03/19/13 00:01	1
Cobalt	**4.0**		0.95	0.11	mg/Kg	☼	03/17/13 10:25	03/19/13 00:01	1
Copper	**66**		2.4	1.0	mg/Kg	☼	03/17/13 10:25	03/19/13 00:01	1
Iron	**31000**		19	6.7	mg/Kg	☼	03/17/13 10:25	03/19/13 00:01	1
Lead	**78**		0.95	0.50	mg/Kg	☼	03/17/13 10:25	03/19/13 00:01	1
Magnesium	**1700**		48	2.3	mg/Kg	☼	03/17/13 10:25	03/19/13 00:01	1
Manganese	**300**		0.95	0.29	mg/Kg	☼	03/17/13 10:25	03/19/13 00:01	1
Nickel	**19**		3.8	0.29	mg/Kg	☼	03/17/13 10:25	03/19/13 00:01	1
Potassium	**1100**		95	7.6	mg/Kg	☼	03/17/13 10:25	03/19/13 00:01	1
Selenium	2.4	U	2.4	0.95	mg/Kg	☼	03/17/13 10:25	03/19/13 00:01	1
Silver	0.95	U	0.95	0.091	mg/Kg	☼	03/17/13 10:25	03/19/13 00:01	1
Sodium	**88**	**J**	190	78	mg/Kg	☼	03/17/13 10:25	03/19/13 00:01	1
Thallium	2.4	U	2.4	0.94	mg/Kg	☼	03/17/13 10:25	03/19/13 00:01	1
Vanadium	**24**		0.95	0.23	mg/Kg	☼	03/17/13 10:25	03/19/13 00:01	1
Zinc	**230**		1.9	1.1	mg/Kg	☼	03/17/13 10:25	03/19/13 00:01	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.021	0.0087	mg/Kg	☼	03/14/13 11:34	03/15/13 17:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.94	U	0.94	0.28	mg/Kg	☼	03/18/13 10:55	03/20/13 12:27	1
Cyanide, Total	0.55	U	0.55	0.23	mg/Kg	☼	03/14/13 10:30	03/15/13 10:07	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-3-12-14-20130313-01
Date Collected: 03/13/13 10:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-26
Matrix: Solid
Percent Solids: 76.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.047	U	0.047	0.010	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Benzene	0.0047	U	0.0047	0.00069	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Bromobenzene	0.0047	U	0.0047	0.0016	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Bromochloromethane	0.0047	U	0.0047	0.0031	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Bromodichloromethane	0.0047	U	0.0047	0.00091	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Bromoform	0.0047	U	0.0047	0.0014	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Bromomethane	0.0047	U	0.0047	0.0014	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
2-Butanone	0.024	U	0.024	0.0023	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Carbon disulfide	0.0047	U	0.0047	0.0010	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Carbon tetrachloride	0.0047	U	0.0047	0.00078	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Chlorobenzene	0.0047	U	0.0047	0.00090	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Chlorodibromomethane	0.0047	U	0.0047	0.0016	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Chloroethane	0.0047	U	0.0047	0.0025	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Chloroform	0.0047	U	0.0047	0.0010	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Chloromethane	0.0047	U	0.0047	0.00094	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
2-Chlorotoluene	0.0047	U	0.0047	0.0019	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
4-Chlorotoluene	0.0047	U	0.0047	0.0016	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
cis-1,2-Dichloroethene	0.0047	U	0.0047	0.0013	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
cis-1,3-Dichloropropene	0.0047	U	0.0047	0.00078	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Cyclohexane	0.0094	U	0.0094	0.0012	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
1,2-Dibromo-3-Chloropropane	0.0094	U	0.0094	0.0041	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
1,2-Dibromoethane	0.0047	U	0.0047	0.0014	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Dibromomethane	0.0047	U	0.0047	0.0016	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
1,2-Dichlorobenzene	0.0047	U	0.0047	0.0012	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
1,3-Dichlorobenzene	0.0047	U	0.0047	0.0015	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
1,4-Dichlorobenzene	0.0047	U	0.0047	0.00070	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Dichlorodifluoromethane	0.0047	U	0.0047	0.00089	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
1,1-Dichloroethane	0.0047	U	0.0047	0.0010	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
1,2-Dichloroethane	0.0047	U	0.0047	0.0010	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
1,1-Dichloroethene	0.0047	U	0.0047	0.0014	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
1,2-Dichloropropane	0.0047	U	0.0047	0.00081	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
2,2-Dichloropropane	0.0047	U	0.0047	0.0010	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
1,3-Dichloropropane	0.0047	U	0.0047	0.0017	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
1,1-Dichloropropene	0.0047	U	0.0047	0.00089	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Ethylbenzene	0.0047	U	0.0047	0.0012	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Hexachlorobutadiene	0.0047	U	0.0047	0.0029	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
2-Hexanone	0.024	U	0.024	0.0031	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Isopropylbenzene	0.0047	U	0.0047	0.0018	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Methyl acetate	0.0094	U	0.0094	0.0047	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Methylcyclohexane	0.0094	U	0.0094	0.00081	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Methylene Chloride	0.0047	U	0.0047	0.00092	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
4-Methyl-2-pentanone	0.024	U	0.024	0.0040	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Methyl tert-butyl ether	0.0094	U	0.0094	0.00094	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Naphthalene	0.0047	U	0.0047	0.0011	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
n-Butylbenzene	0.0047	U	0.0047	0.0023	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
N-Propylbenzene	0.0047	U	0.0047	0.0025	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
p-Isopropyltoluene	0.0047	U	0.0047	0.0021	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
sec-Butylbenzene	0.0047	U	0.0047	0.0020	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Styrene	0.0047	U	0.0047	0.00088	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-3-12-14-20130313-01
Date Collected: 03/13/13 10:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-26
Matrix: Solid
Percent Solids: 76.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.0047	U	0.0047	0.0017	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
1,1,2,2-Tetrachloroethane	0.0047	U	0.0047	0.0015	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
1,1,1,2-Tetrachloroethane	0.0047	U	0.0047	0.0023	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Tetrachloroethene	0.0047	U	0.0047	0.0018	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Toluene	0.0047	U	0.0047	0.00079	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
trans-1,2-Dichloroethene	0.0047	U	0.0047	0.00059	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
trans-1,3-Dichloropropene	0.0047	U	0.0047	0.00082	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
1,2,4-Trichlorobenzene	0.0047	U	0.0047	0.00084	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
1,2,3-Trichlorobenzene	0.0047	U	0.0047	0.0015	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
1,1,1-Trichloroethane	0.0047	U	0.0047	0.00056	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
1,1,2-Trichloroethane	0.0047	U	0.0047	0.0012	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Trichloroethene	0.0047	U	0.0047	0.0012	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Trichlorofluoromethane	0.0047	U	0.0047	0.0011	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
1,2,3-Trichloropropane	0.0047	U	0.0047	0.0023	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0047	U	0.0047	0.0012	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
1,2,4-Trimethylbenzene	0.0047	U	0.0047	0.0013	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
1,3,5-Trimethylbenzene	0.0047	U	0.0047	0.0016	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Vinyl chloride	0.0047	U	0.0047	0.0014	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1
Xylenes, Total	0.0094	U	0.0094	0.0010	mg/Kg	☼	03/18/13 10:38	03/19/13 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*65 - 130*	*03/18/13 10:38*	*03/19/13 17:44*	*1*
Dibromofluoromethane	*89*		*65 - 130*	*03/18/13 10:38*	*03/19/13 17:44*	*1*
Toluene-d8 (Surr)	*97*		*65 - 130*	*03/18/13 10:38*	*03/19/13 17:44*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.043	U	0.043	0.013	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Acenaphthylene	0.043	U	0.043	0.0099	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Acetophenone	0.43	U	0.43	0.078	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
2-Acetylaminofluorene	0.22	U	0.22	0.040	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
alpha,alpha-Dimethyl phenethylamine	1.7	U	1.7	0.51	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
4-Aminobiphenyl	0.22	U	0.22	0.087	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Aniline	0.87	U	0.87	0.39	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Anthracene	0.043	U	0.043	0.010	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Aramite	0.22	U	0.22	0.043	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Benzenethiol	0.87	U	0.87	0.43	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Benzidine	0.87	U *	0.87	0.43	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Benzo[a]anthracene	0.043	U	0.043	0.0090	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Benzo[a]pyrene	0.043	U	0.043	0.0078	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Benzo[b]fluoranthene	0.043	U	0.043	0.0084	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Benzo[g,h,i]perylene	0.043	U	0.043	0.015	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Benzoic acid	2.2	U	2.2	0.59	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Benzo[k]fluoranthene	0.043	U	0.043	0.010	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Benzyl alcohol	0.43	U	0.43	0.13	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Bis(2-chloroethoxy)methane	0.22	U	0.22	0.048	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Bis(2-chloroethyl)ether	0.22	U	0.22	0.064	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Bis(2-ethylhexyl) phthalate	0.22	U	0.22	0.057	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
4-Bromophenyl phenyl ether	0.22	U	0.22	0.048	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Butyl benzyl phthalate	0.22	U	0.22	0.054	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-3-12-14-20130313-01
Date Collected: 03/13/13 10:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-26
Matrix: Solid
Percent Solids: 76.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	0.43	U	0.43	0.099	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
4-Chloroaniline	0.87	U	0.87	0.13	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
4-Chloro-3-methylphenol	0.43	U	0.43	0.21	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
2-Chloronaphthalene	0.22	U	0.22	0.048	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
2-Chlorophenol	0.22	U	0.22	0.062	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
4-Chlorophenyl phenyl ether	0.22	U	0.22	0.068	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Chrysene	0.043	U	0.043	0.0097	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Diallate	0.22	U	0.22	0.043	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Dibenz(a,h)anthracene	0.043	U	0.043	0.012	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Dibenz[a,j]acridine	0.22	U	0.22	0.024	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Dibenzofuran	0.22	U	0.22	0.052	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
1,2-Dichlorobenzene	0.22	U	0.22	0.047	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
1,3-Dichlorobenzene	0.22	U	0.22	0.045	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
1,4-Dichlorobenzene	0.22	U	0.22	0.045	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
3,3'-Dichlorobenzidine	0.22	U	0.22	0.036	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
2,4-Dichlorophenol	0.43	U	0.43	0.13	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
2,6-Dichlorophenol	0.22	U	0.22	0.061	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Diethyl phthalate	0.22	U	0.22	0.072	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Diethylstilbestrol	0.87	U	0.87	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Dimethoate	0.43	U	0.43	0.097	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
7,12-Dimethylbenz(a)anthracene	0.22	U	0.22	0.053	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
3,3'-Dimethylbenzidine	0.87	U	0.87	0.22	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
2,4-Dimethylphenol	0.43	U	0.43	0.13	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Dimethyl phthalate	0.22	U	0.22	0.054	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Di-n-butyl phthalate	0.22	U	0.22	0.054	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
1,4-Dinitrobenzene	0.22	U	0.22	0.034	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
4,6-Dinitro-2-methylphenol	0.43	U	0.43	0.10	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
2,4-Dinitrophenol	0.87	U	0.87	0.22	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
2,4-Dinitrotoluene	0.22	U	0.22	0.066	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
2,6-Dinitrotoluene	0.22	U	0.22	0.051	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Di-n-octyl phthalate	0.22	U	0.22	0.087	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Dinoseb	0.43	U	0.43	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
1,4-Dioxane	0.87	U	0.87	0.29	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Diphenylamine	0.22	U	0.22	0.049	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
1,2-Diphenylhydrazine	0.22	U	0.22	0.055	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Disulfoton	0.43	U	0.43	0.065	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Ethyl 4,4'-Dichlorobenzilate	0.22	U	0.22	0.027	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Ethyl methanesulfonate	0.22	U	0.22	0.024	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Ethyl Parathion	0.43	U	0.43	0.12	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Famphur	0.43	U	0.43	0.070	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Fluoranthene	0.043	U	0.043	0.018	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Fluorene	0.043	U	0.043	0.0098	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Hexachlorobenzene	0.087	U	0.087	0.0085	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Hexachlorobutadiene	0.22	U	0.22	0.056	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Hexachlorocyclopentadiene	0.87	U	0.87	0.20	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Hexachloroethane	0.22	U	0.22	0.046	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Hexachlorophene	4.3	U	4.3	1.6	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Hexachloropropene	0.43	U	0.43	0.17	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Indeno[1,2,3-cd]pyrene	0.043	U	0.043	0.015	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-3-12-14-20130313-01
Date Collected: 03/13/13 10:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-26
Matrix: Solid
Percent Solids: 76.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	0.22	U	0.22	0.048	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Isosafrole	0.22	U	0.22	0.023	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Kepone	0.87	U	0.87	0.43	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Malathion	0.43	U	0.43	0.13	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
m-Dinitrobenzene	0.22	U	0.22	0.041	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Methapyrilene	1.7	U	1.7	0.22	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
3-Methylcholanthrene	0.22	U	0.22	0.018	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Methyl methanesulfonate	0.22	U	0.22	0.035	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
2-Methylnaphthalene	0.22	U	0.22	0.056	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Methyl parathion	0.43	U	0.43	0.12	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
2-Methylphenol	0.22	U	0.22	0.057	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
3 & 4 Methylphenol	0.22	U	0.22	0.081	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Naphthalene	0.043	U	0.043	0.0083	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
1,4-Naphthoquinone	0.87	U	0.87	0.43	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
1-Naphthylamine	0.22	U	0.22	0.033	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
2-Naphthylamine	0.22	U	0.22	0.059	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
2-Nitroaniline	0.22	U	0.22	0.077	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
3-Nitroaniline	0.43	U	0.43	0.083	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
4-Nitroaniline	0.43	U	0.43	0.088	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Nitrobenzene	0.043	U	0.043	0.013	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
5-Nitro-o-toluidine	0.22	U	0.22	0.041	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
2-Nitrophenol	0.43	U	0.43	0.067	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
4-Nitrophenol	0.87	U	0.87	0.23	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
4-Nitroquinoline-1-oxide	0.87	U	0.87	0.41	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
N-Nitrosodiethylamine	0.43	U	0.43	0.12	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
N-Nitrosodimethylamine	0.87	U	0.87	0.47	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
N-Nitrosodi-n-butylamine	0.22	U	0.22	0.077	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
N-Nitrosodi-n-propylamine	0.22	U	0.22	0.055	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
N-Nitrosodiphenylamine	0.22	U	0.22	0.058	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
N-Nitrosomethylethylamine	0.87	U	0.87	0.35	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
N-Nitrosomorpholine	0.22	U	0.22	0.040	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
N-Nitrosopiperidine	0.43	U	0.43	0.040	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
N-Nitrosopyrrolidine	0.22	U	0.22	0.049	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
o,o',o''-Triethylphosphorothioate	0.43	U	0.43	0.066	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
o-Toluidine	0.22	U	0.22	0.042	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
2,2'-oxybis[1-chloropropane]	0.22	U	0.22	0.048	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
p-Dimethylamino azobenzene	0.22	U	0.22	0.023	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Pentachlorobenzene	0.22	U	0.22	0.054	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Pentachloronitrobenzene	0.22	U	0.22	0.031	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Pentachlorophenol	0.87	U	0.87	0.22	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Phenacetin	0.22	U	0.22	0.045	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Phenanthrene	0.043	U	0.043	0.018	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Phenol	0.22	U	0.22	0.068	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Phorate	0.43	U	0.43	0.091	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
2-Picoline	0.43	U	0.43	0.16	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
p-Phenylene diamine	1.7	U	1.7	0.091	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Pronamide	0.22	U	0.22	0.035	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Pyrene	0.043	U	0.043	0.016	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Pyridine	0.87	U	0.87	0.51	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1

Client Sample ID: DDSB-3-12-14-20130313-01
Date Collected: 03/13/13 10:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-26
Matrix: Solid
Percent Solids: 76.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole	0.22	U	0.22	0.020	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Sulfotepp	0.43	U	0.43	0.086	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
sym-Trinitrobenzene	0.87	U	0.87	0.44	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
1,2,4,5-Tetrachlorobenzene	0.22	U	0.22	0.051	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
2,3,4,6-Tetrachlorophenol	0.22	U	0.22	0.059	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
Thionazin	0.43	U	0.43	0.096	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
1,2,4-Trichlorobenzene	0.22	U	0.22	0.049	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
2,4,5-Trichlorophenol	0.43	U	0.43	0.12	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1
2,4,6-Trichlorophenol	0.43	U	0.43	0.054	mg/Kg	☼	03/15/13 07:34	03/25/13 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*30 - 119*	*03/15/13 07:34*	*03/25/13 16:29*	*1*
2-Fluorophenol	*72*		*30 - 110*	*03/15/13 07:34*	*03/25/13 16:29*	*1*
Nitrobenzene-d5	*69*		*30 - 115*	*03/15/13 07:34*	*03/25/13 16:29*	*1*
Phenol-d5	*72*		*31 - 110*	*03/15/13 07:34*	*03/25/13 16:29*	*1*
Terphenyl-d14	*87*		*36 - 134*	*03/15/13 07:34*	*03/25/13 16:29*	*1*
2,4,6-Tribromophenol	*84*		*35 - 137*	*03/15/13 07:34*	*03/25/13 16:29*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0021	U	0.0021	0.00087	mg/Kg	☼	03/15/13 07:24	03/26/13 14:47	1
alpha-BHC	0.0021	U	0.0021	0.00053	mg/Kg	☼	03/15/13 07:24	03/26/13 14:47	1
beta-BHC	0.0021	U	0.0021	0.00065	mg/Kg	☼	03/15/13 07:24	03/26/13 14:47	1
Chlordane (technical)	0.0084	U	0.0084	0.0041	mg/Kg	☼	03/15/13 07:24	03/26/13 14:47	1
4,4'-DDD	0.0021	U	0.0021	0.00042	mg/Kg	☼	03/15/13 07:24	03/26/13 14:47	1
4,4'-DDE	0.0021	U	0.0021	0.00035	mg/Kg	☼	03/15/13 07:24	03/26/13 14:47	1
4,4'-DDT	0.0021	U	0.0021	0.0011	mg/Kg	☼	03/15/13 07:24	03/26/13 14:47	1
delta-BHC	0.0021	U	0.0021	0.00066	mg/Kg	☼	03/15/13 07:24	03/26/13 14:47	1
Dieldrin	0.0021	U	0.0021	0.00029	mg/Kg	☼	03/15/13 07:24	03/26/13 14:47	1
Endosulfan I	0.0021	U	0.0021	0.00092	mg/Kg	☼	03/15/13 07:24	03/26/13 14:47	1
Endosulfan II	0.0021	U	0.0021	0.00034	mg/Kg	☼	03/15/13 07:24	03/26/13 14:47	1
Endosulfan sulfate	0.0021	U	0.0021	0.00038	mg/Kg	☼	03/15/13 07:24	03/26/13 14:47	1
Endrin	0.0021	U	0.0021	0.00029	mg/Kg	☼	03/15/13 07:24	03/26/13 14:47	1
Endrin aldehyde	0.0021	U	0.0021	0.00035	mg/Kg	☼	03/15/13 07:24	03/26/13 14:47	1
Endrin ketone	0.0021	U	0.0021	0.00047	mg/Kg	☼	03/15/13 07:24	03/26/13 14:47	1
gamma-BHC (Lindane)	0.0021	U	0.0021	0.00045	mg/Kg	☼	03/15/13 07:24	03/26/13 14:47	1
Heptachlor	0.0021	U	0.0021	0.00088	mg/Kg	☼	03/15/13 07:24	03/26/13 14:47	1
Heptachlor epoxide	0.0021	U	0.0021	0.00075	mg/Kg	☼	03/15/13 07:24	03/26/13 14:47	1
Isodrin	0.0021	U	0.0021	0.00098	mg/Kg	☼	03/15/13 07:24	03/26/13 14:47	1
Methoxychlor	0.010	U	0.010	0.00041	mg/Kg	☼	03/15/13 07:24	03/26/13 14:47	1
Toxaphene	0.021	U	0.021	0.0088	mg/Kg	☼	03/15/13 07:24	03/26/13 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*56 - 128*	*03/15/13 07:24*	*03/26/13 14:47*	*1*
Tetrachloro-m-xylene	*40*	*X*	*45 - 112*	*03/15/13 07:24*	*03/26/13 14:47*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.021	U	0.021	0.0074	mg/Kg	☼	03/15/13 07:24	03/20/13 12:39	1
PCB-1221	0.021	U	0.021	0.0092	mg/Kg	☼	03/15/13 07:24	03/20/13 12:39	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-3-12-14-20130313-01
Date Collected: 03/13/13 10:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-26
Matrix: Solid
Percent Solids: 76.5

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	0.021	U	0.021	0.0091	mg/Kg	☼	03/15/13 07:24	03/20/13 12:39	1
PCB-1242	0.021	U	0.021	0.0069	mg/Kg	☼	03/15/13 07:24	03/20/13 12:39	1
PCB-1248	0.021	U	0.021	0.0082	mg/Kg	☼	03/15/13 07:24	03/20/13 12:39	1
PCB-1254	0.021	U	0.021	0.0045	mg/Kg	☼	03/15/13 07:24	03/20/13 12:39	1
PCB-1260	0.021	U	0.021	0.010	mg/Kg	☼	03/15/13 07:24	03/20/13 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*48*	*X*	*50 - 116*	*03/15/13 07:24*	*03/20/13 12:39*	*1*
DCB Decachlorobiphenyl	*74*		*48 - 142*	*03/15/13 07:24*	*03/20/13 12:39*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.085	U	0.085	0.0037	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Azinphos-methyl	0.085	U	0.085	0.019	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Bolstar	0.042	U	0.042	0.0060	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Carbophenthion	0.085	U	0.085	0.0068	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Chlorpyrifos	0.042	U	0.042	0.0087	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Chlorpyrifos-methyl	0.042	U	0.042	0.015	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Coumaphos	0.42	U	0.42	0.028	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Demeton-O	0.11	U	0.11	0.0033	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Demeton-S	0.11	U	0.11	0.0072	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Demeton, Total	0.11	U	0.11	0.0099	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Diazinon	0.042	U	0.042	0.0073	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Dichlofenthion	0.042	U	0.042	0.0054	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Dichlorvos	0.085	U	0.085	0.0082	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Dimethoate	0.085	U	0.085	0.011	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Disulfoton	0.085	U	0.085	0.021	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
EPN	0.042	U	0.042	0.0058	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Ethion	0.022	U	0.022	0.0068	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Ethoprop	0.022	U	0.022	0.0054	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Ethyl Parathion	0.042	U	0.042	0.0071	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Famphur	0.085	U	0.085	0.011	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Fensulfothion	0.42	U	0.42	0.015	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Fenthion	0.042	U	0.042	0.0060	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Malathion	0.042	U	0.042	0.011	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Merphos	0.042	U	0.042	0.014	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Methyl parathion	0.022	U	0.022	0.0069	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Mevinphos	0.085	U	0.085	0.0059	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Monochrotophos	0.42	U	0.42	0.059	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Naled	0.42	U	0.42	0.028	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Phorate	0.042	U	0.042	0.0069	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Ronnel	0.042	U	0.042	0.0054	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Simazine	0.085	U	0.085	0.0041	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Stirophos	0.042	U	0.042	0.0082	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Sulfotepp	0.022	U	0.022	0.011	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Terbufos	0.022	U	0.022	0.021	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Thionazin	0.042	U	0.042	0.013	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Tokuthion	0.042	U	0.042	0.0069	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1
Trichloronate	0.42	U	0.42	0.0098	mg/Kg	☼	03/16/13 09:29	04/02/13 11:49	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-3-12-14-20130313-01
Date Collected: 03/13/13 10:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-26
Matrix: Solid
Percent Solids: 76.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate (TPP)	*48*		*35 - 134*	*03/16/13 09:29*	*04/02/13 11:49*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		25	13	mg/Kg	☼	03/17/13 10:25	03/19/13 00:07	1
Antimony	2.5	U	2.5	0.67	mg/Kg	☼	03/17/13 10:25	03/19/13 00:07	1
Arsenic	**1.2**	**J**	2.5	0.74	mg/Kg	☼	03/17/13 10:25	03/19/13 00:07	1
Barium	**100**		1.3	0.38	mg/Kg	☼	03/17/13 10:25	03/19/13 00:07	1
Beryllium	**0.38**	**J**	0.50	0.025	mg/Kg	☼	03/17/13 10:25	03/19/13 00:07	1
Cadmium	0.63	U	0.63	0.13	mg/Kg	☼	03/17/13 10:25	03/19/13 00:07	1
Calcium	**110**		63	25	mg/Kg	☼	03/17/13 10:25	03/19/13 00:07	1
Chromium	**12**		1.3	0.63	mg/Kg	☼	03/17/13 10:25	03/19/13 00:07	1
Cobalt	**0.99**	**J**	1.3	0.15	mg/Kg	☼	03/17/13 10:25	03/19/13 00:07	1
Copper	**8.8**		3.1	1.4	mg/Kg	☼	03/17/13 10:25	03/19/13 00:07	1
Iron	**16000**		25	8.8	mg/Kg	☼	03/17/13 10:25	03/19/13 00:07	1
Lead	**5.9**		1.3	0.67	mg/Kg	☼	03/17/13 10:25	03/19/13 00:07	1
Magnesium	**500**		63	3.0	mg/Kg	☼	03/17/13 10:25	03/19/13 00:07	1
Manganese	**55**		1.3	0.38	mg/Kg	☼	03/17/13 10:25	03/19/13 00:07	1
Nickel	**3.9**	**J**	5.0	0.39	mg/Kg	☼	03/17/13 10:25	03/19/13 00:07	1
Potassium	**640**		130	10	mg/Kg	☼	03/17/13 10:25	03/19/13 00:07	1
Selenium	3.1	U	3.1	1.3	mg/Kg	☼	03/17/13 10:25	03/19/13 00:07	1
Silver	1.3	U	1.3	0.12	mg/Kg	☼	03/17/13 10:25	03/19/13 00:07	1
Sodium	250	U	250	100	mg/Kg	☼	03/17/13 10:25	03/19/13 00:07	1
Thallium	3.1	U	3.1	1.2	mg/Kg	☼	03/17/13 10:25	03/19/13 00:07	1
Vanadium	**50**		1.3	0.30	mg/Kg	☼	03/17/13 10:25	03/19/13 00:07	1
Zinc	**12**		2.5	1.5	mg/Kg	☼	03/17/13 10:25	03/19/13 00:07	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023	U	0.023	0.0092	mg/Kg	☼	03/14/13 11:34	03/15/13 17:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	1.3	U	1.3	0.39	mg/Kg	☼	03/15/13 10:20	03/16/13 11:20	1
Cyanide, Total	0.63	U	0.63	0.26	mg/Kg	☼	03/14/13 10:30	03/15/13 10:08	1

Client Sample ID: DDSB-5-0-2-20130313-01
Date Collected: 03/13/13 10:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-27
Matrix: Solid
Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.013	J	0.037	0.0081	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Benzene	0.0037	U	0.0037	0.00054	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Bromobenzene	0.0037	U	0.0037	0.0013	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Bromochloromethane	0.0037	U	0.0037	0.0024	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Bromodichloromethane	0.0037	U	0.0037	0.00072	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Bromoform	0.0037	U	0.0037	0.0011	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Bromomethane	0.0037	U	0.0037	0.0011	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
2-Butanone	0.019	U	0.019	0.0018	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Carbon disulfide	0.0037	U	0.0037	0.00081	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Carbon tetrachloride	0.0037	U	0.0037	0.00061	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Chlorobenzene	0.0037	U	0.0037	0.00071	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Chlorodibromomethane	0.0037	U	0.0037	0.0013	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Chloroethane	0.0037	U	0.0037	0.0020	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Chloroform	0.0037	U	0.0037	0.00081	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Chloromethane	0.0037	U	0.0037	0.00074	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
2-Chlorotoluene	0.0037	U	0.0037	0.0015	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
4-Chlorotoluene	0.0037	U	0.0037	0.0013	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
cis-1,2-Dichloroethene	0.0037	U	0.0037	0.0010	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
cis-1,3-Dichloropropene	0.0037	U	0.0037	0.00061	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Cyclohexane	0.0074	U	0.0074	0.00096	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
1,2-Dibromo-3-Chloropropane	0.0074	U	0.0074	0.0033	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
1,2-Dibromoethane	0.0037	U	0.0037	0.0011	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Dibromomethane	0.0037	U	0.0037	0.0013	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
1,2-Dichlorobenzene	0.0037	U	0.0037	0.00096	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
1,3-Dichlorobenzene	0.0037	U	0.0037	0.0012	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
1,4-Dichlorobenzene	0.0037	U	0.0037	0.00055	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Dichlorodifluoromethane	0.0037	U	0.0037	0.00070	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
1,1-Dichloroethane	0.0037	U	0.0037	0.00081	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
1,2-Dichloroethane	0.0037	U	0.0037	0.00081	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
1,1-Dichloroethene	0.0037	U	0.0037	0.0011	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
1,2-Dichloropropane	0.0037	U	0.0037	0.00064	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
2,2-Dichloropropane	0.0037	U	0.0037	0.00081	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
1,3-Dichloropropane	0.0037	U	0.0037	0.0013	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
1,1-Dichloropropene	0.0037	U	0.0037	0.00070	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Ethylbenzene	0.0037	U	0.0037	0.00096	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Hexachlorobutadiene	0.0037	U	0.0037	0.0023	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
2-Hexanone	0.019	U	0.019	0.0024	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Isopropylbenzene	0.0037	U	0.0037	0.0014	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Methyl acetate	0.0074	U	0.0074	0.0037	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Methylcyclohexane	0.0074	U	0.0074	0.00064	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Methylene Chloride	0.0037	U	0.0037	0.00073	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
4-Methyl-2-pentanone	0.019	U	0.019	0.0031	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Methyl tert-butyl ether	0.0074	U	0.0074	0.00074	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Naphthalene	0.0037	U	0.0037	0.00089	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
n-Butylbenzene	0.0037	U	0.0037	0.0018	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
N-Propylbenzene	0.0037	U	0.0037	0.0020	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
p-Isopropyltoluene	0.0037	U	0.0037	0.0016	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
sec-Butylbenzene	0.0037	U	0.0037	0.0016	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Styrene	0.0037	U	0.0037	0.00069	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1

Client Sample ID: DDSB-5-0-2-20130313-01
Date Collected: 03/13/13 10:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-27
Matrix: Solid
Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.0037	U	0.0037	0.0013	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
1,1,2,2-Tetrachloroethane	0.0037	U	0.0037	0.0012	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
1,1,1,2-Tetrachloroethane	0.0037	U	0.0037	0.0018	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Tetrachloroethene	0.0037	U	0.0037	0.0014	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Toluene	0.0037	U	0.0037	0.00062	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
trans-1,2-Dichloroethene	0.0037	U	0.0037	0.00047	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
trans-1,3-Dichloropropene	0.0037	U	0.0037	0.00064	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
1,2,4-Trichlorobenzene	0.0037	U	0.0037	0.00066	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
1,2,3-Trichlorobenzene	0.0037	U	0.0037	0.0012	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
1,1,1-Trichloroethane	0.0037	U	0.0037	0.00044	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
1,1,2-Trichloroethane	0.0037	U	0.0037	0.00096	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Trichloroethene	0.0037	U	0.0037	0.00096	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Trichlorofluoromethane	0.0037	U	0.0037	0.00089	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
1,2,3-Trichloropropane	0.0037	U	0.0037	0.0018	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0037	U	0.0037	0.00096	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
1,2,4-Trimethylbenzene	0.0037	U	0.0037	0.0010	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
1,3,5-Trimethylbenzene	0.0037	U	0.0037	0.0013	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Vinyl chloride	0.0037	U	0.0037	0.0011	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1
Xylenes, Total	0.0074	U	0.0074	0.00081	mg/Kg	☼	03/18/13 10:38	03/19/13 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*65 - 130*	*03/18/13 10:38*	*03/19/13 18:06*	*1*
Dibromofluoromethane	*92*		*65 - 130*	*03/18/13 10:38*	*03/19/13 18:06*	*1*
Toluene-d8 (Surr)	*97*		*65 - 130*	*03/18/13 10:38*	*03/19/13 18:06*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.037	U	0.037	0.011	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Acenaphthylene	0.037	U	0.037	0.0086	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Acetophenone	0.37	U	0.37	0.068	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
2-Acetylaminofluorene	0.19	U	0.19	0.035	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
alpha,alpha-Dimethyl phenethylamine	1.5	U	1.5	0.45	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
4-Aminobiphenyl	0.19	U	0.19	0.076	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Aniline	0.76	U	0.76	0.34	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Anthracene	0.037	U	0.037	0.0088	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Aramite	0.19	U	0.19	0.037	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Benzenethiol	0.76	U	0.76	0.37	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Benzidine	0.76	U *	0.76	0.37	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Benzo[a]anthracene	**0.023**	**J**	0.037	0.0079	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Benzo[a]pyrene	**0.023**	**J**	0.037	0.0068	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Benzo[b]fluoranthene	**0.030**	**J**	0.037	0.0073	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Benzo[g,h,i]perylene	**0.017**	**J**	0.037	0.013	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Benzoic acid	1.9	U	1.9	0.52	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Benzo[k]fluoranthene	**0.012**	**J**	0.037	0.0090	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Benzyl alcohol	0.37	U	0.37	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Bis(2-chloroethoxy)methane	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Bis(2-chloroethyl)ether	0.19	U	0.19	0.056	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Bis(2-ethylhexyl) phthalate	0.19	U	0.19	0.050	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
4-Bromophenyl phenyl ether	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Butyl benzyl phthalate	0.19	U	0.19	0.047	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1

Client Sample ID: DDSB-5-0-2-20130313-01
Date Collected: 03/13/13 10:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-27
Matrix: Solid
Percent Solids: 88.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	0.37	U	0.37	0.087	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
4-Chloroaniline	0.76	U	0.76	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
4-Chloro-3-methylphenol	0.37	U	0.37	0.18	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
2-Chloronaphthalene	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
2-Chlorophenol	0.19	U	0.19	0.054	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
4-Chlorophenyl phenyl ether	0.19	U	0.19	0.059	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Chrysene	**0.027**	**J**	0.037	0.0085	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Diallate	0.19	U	0.19	0.038	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Dibenz(a,h)anthracene	0.037	U	0.037	0.010	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Dibenz[a,j]acridine	0.19	U	0.19	0.021	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Dibenzofuran	0.19	U	0.19	0.045	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
1,2-Dichlorobenzene	0.19	U	0.19	0.041	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
1,3-Dichlorobenzene	0.19	U	0.19	0.039	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
1,4-Dichlorobenzene	0.19	U	0.19	0.039	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
3,3'-Dichlorobenzidine	0.19	U	0.19	0.031	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
2,4-Dichlorophenol	0.37	U	0.37	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
2,6-Dichlorophenol	0.19	U	0.19	0.053	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Diethyl phthalate	0.19	U	0.19	0.063	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Diethylstilbestrol	0.76	U	0.76	0.094	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Dimethoate	0.37	U	0.37	0.084	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
7,12-Dimethylbenz(a)anthracene	0.19	U	0.19	0.046	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
3,3'-Dimethylbenzidine	0.76	U	0.76	0.20	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
2,4-Dimethylphenol	0.37	U	0.37	0.12	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Dimethyl phthalate	0.19	U	0.19	0.047	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Di-n-butyl phthalate	0.19	U	0.19	0.047	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
1,4-Dinitrobenzene	0.19	U	0.19	0.029	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
4,6-Dinitro-2-methylphenol	0.37	U	0.37	0.091	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
2,4-Dinitrophenol	0.76	U	0.76	0.19	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
2,4-Dinitrotoluene	0.19	U	0.19	0.058	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
2,6-Dinitrotoluene	0.19	U	0.19	0.045	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Di-n-octyl phthalate	0.19	U	0.19	0.076	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Dinoseb	0.37	U	0.37	0.097	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
1,4-Dioxane	0.76	U	0.76	0.25	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Diphenylamine	0.19	U	0.19	0.043	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
1,2-Diphenylhydrazine	0.19	U	0.19	0.048	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Disulfoton	0.37	U	0.37	0.057	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Ethyl 4,4'-Dichlorobenzilate	0.19	U	0.19	0.024	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Ethyl methanesulfonate	0.19	U	0.19	0.021	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Ethyl Parathion	0.37	U	0.37	0.10	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Famphur	0.37	U	0.37	0.061	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Fluoranthene	**0.022**	**J**	0.037	0.015	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Fluorene	0.037	U	0.037	0.0085	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Hexachlorobenzene	0.076	U	0.076	0.0074	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Hexachlorobutadiene	0.19	U	0.19	0.049	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Hexachlorocyclopentadiene	0.76	U	0.76	0.17	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Hexachloroethane	0.19	U	0.19	0.040	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Hexachlorophene	3.7	U	3.7	1.4	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Hexachloropropene	0.37	U	0.37	0.15	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Indeno[1,2,3-cd]pyrene	**0.015**	**J**	0.037	0.013	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1

Client Sample ID: DDSB-5-0-2-20130313-01
Date Collected: 03/13/13 10:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-27
Matrix: Solid
Percent Solids: 88.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Isosafrole	0.19	U	0.19	0.020	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Kepone	0.76	U	0.76	0.37	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Malathion	0.37	U	0.37	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
m-Dinitrobenzene	0.19	U	0.19	0.035	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Methapyrilene	1.5	U	1.5	0.20	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
3-Methylcholanthrene	0.19	U	0.19	0.016	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Methyl methanesulfonate	0.19	U	0.19	0.031	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
2-Methylnaphthalene	0.19	U	0.19	0.049	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Methyl parathion	0.37	U	0.37	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
2-Methylphenol	0.19	U	0.19	0.050	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
3 & 4 Methylphenol	0.19	U	0.19	0.071	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Naphthalene	**0.022**	**J**	0.037	0.0072	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
1,4-Naphthoquinone	0.76	U	0.76	0.37	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
1-Naphthylamine	0.19	U	0.19	0.029	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
2-Naphthylamine	0.19	U	0.19	0.051	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
2-Nitroaniline	0.19	U	0.19	0.068	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
3-Nitroaniline	0.37	U	0.37	0.073	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
4-Nitroaniline	0.37	U	0.37	0.077	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Nitrobenzene	0.037	U	0.037	0.012	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
5-Nitro-o-toluidine	0.19	U	0.19	0.036	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
2-Nitrophenol	0.37	U	0.37	0.059	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
4-Nitrophenol	0.76	U	0.76	0.20	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
4-Nitroquinoline-1-oxide	0.76	U	0.76	0.36	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
N-Nitrosodiethylamine	0.37	U	0.37	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
N-Nitrosodimethylamine	0.76	U	0.76	0.41	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
N-Nitrosodi-n-butylamine	0.19	U	0.19	0.067	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
N-Nitrosodi-n-propylamine	0.19	U	0.19	0.048	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
N-Nitrosodiphenylamine	0.19	U	0.19	0.051	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
N-Nitrosomethylethylamine	0.76	U	0.76	0.31	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
N-Nitrosomorpholine	0.19	U	0.19	0.035	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
N-Nitrosopiperidine	0.37	U	0.37	0.035	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
N-Nitrosopyrrolidine	0.19	U	0.19	0.043	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
o,o',o''-Triethylphosphorothioate	0.37	U	0.37	0.058	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
o-Toluidine	0.19	U	0.19	0.036	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
2,2'-oxybis[1-chloropropane]	0.19	U	0.19	0.042	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
p-Dimethylamino azobenzene	0.19	U	0.19	0.020	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Pentachlorobenzene	0.19	U	0.19	0.047	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Pentachloronitrobenzene	0.19	U	0.19	0.027	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Pentachlorophenol	0.76	U	0.76	0.19	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Phenacetin	0.19	U	0.19	0.039	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Phenanthrene	**0.037**		0.037	0.016	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Phenol	0.19	U	0.19	0.060	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Phorate	0.37	U	0.37	0.079	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
2-Picoline	0.37	U	0.37	0.14	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
p-Phenylene diamine	1.5	U	1.5	0.079	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Pronamide	0.19	U	0.19	0.030	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Pyrene	**0.035**	**J**	0.037	0.014	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Pyridine	0.76	U	0.76	0.45	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1

Client Sample ID: DDSB-5-0-2-20130313-01
Date Collected: 03/13/13 10:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-27
Matrix: Solid
Percent Solids: 88.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole	0.19	U	0.19	0.018	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Sulfotepp	0.37	U	0.37	0.075	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
sym-Trinitrobenzene	0.76	U	0.76	0.38	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
1,2,4,5-Tetrachlorobenzene	0.19	U	0.19	0.044	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
2,3,4,6-Tetrachlorophenol	0.19	U	0.19	0.051	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
Thionazin	0.37	U	0.37	0.084	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
1,2,4-Trichlorobenzene	0.19	U	0.19	0.043	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
2,4,5-Trichlorophenol	0.37	U	0.37	0.11	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1
2,4,6-Trichlorophenol	0.37	U	0.37	0.047	mg/Kg	☼	03/15/13 07:34	03/25/13 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*30 - 119*	*03/15/13 07:34*	*03/25/13 16:47*	*1*
2-Fluorophenol	*71*		*30 - 110*	*03/15/13 07:34*	*03/25/13 16:47*	*1*
Nitrobenzene-d5	*71*		*30 - 115*	*03/15/13 07:34*	*03/25/13 16:47*	*1*
Phenol-d5	*75*		*31 - 110*	*03/15/13 07:34*	*03/25/13 16:47*	*1*
Terphenyl-d14	*82*		*36 - 134*	*03/15/13 07:34*	*03/25/13 16:47*	*1*
2,4,6-Tribromophenol	*85*		*35 - 137*	*03/15/13 07:34*	*03/25/13 16:47*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0018	U	0.0018	0.00074	mg/Kg	☼	03/15/13 07:24	03/26/13 15:07	1
alpha-BHC	0.0018	U	0.0018	0.00045	mg/Kg	☼	03/15/13 07:24	03/26/13 15:07	1
beta-BHC	0.0018	U	0.0018	0.00055	mg/Kg	☼	03/15/13 07:24	03/26/13 15:07	1
Chlordane (technical)	0.0071	U	0.0071	0.0035	mg/Kg	☼	03/15/13 07:24	03/26/13 15:07	1
4,4'-DDD	**0.013**		0.0018	0.00036	mg/Kg	☼	03/15/13 07:24	03/26/13 15:07	1
4,4'-DDE	**0.0072**		0.0018	0.00030	mg/Kg	☼	03/15/13 07:24	03/26/13 15:07	1
4,4'-DDT	**0.0071**		0.0018	0.00094	mg/Kg	☼	03/15/13 07:24	03/26/13 15:07	1
delta-BHC	0.0018	U	0.0018	0.00056	mg/Kg	☼	03/15/13 07:24	03/26/13 15:07	1
Dieldrin	0.0018	U	0.0018	0.00024	mg/Kg	☼	03/15/13 07:24	03/26/13 15:07	1
Endosulfan I	0.0018	U	0.0018	0.00078	mg/Kg	☼	03/15/13 07:24	03/26/13 15:07	1
Endosulfan II	0.0018	U	0.0018	0.00029	mg/Kg	☼	03/15/13 07:24	03/26/13 15:07	1
Endosulfan sulfate	0.0018	U	0.0018	0.00033	mg/Kg	☼	03/15/13 07:24	03/26/13 15:07	1
Endrin	0.0018	U	0.0018	0.00025	mg/Kg	☼	03/15/13 07:24	03/26/13 15:07	1
Endrin aldehyde	0.0018	U	0.0018	0.00030	mg/Kg	☼	03/15/13 07:24	03/26/13 15:07	1
Endrin ketone	0.0018	U	0.0018	0.00040	mg/Kg	☼	03/15/13 07:24	03/26/13 15:07	1
gamma-BHC (Lindane)	0.0018	U	0.0018	0.00039	mg/Kg	☼	03/15/13 07:24	03/26/13 15:07	1
Heptachlor	0.0018	U	0.0018	0.00075	mg/Kg	☼	03/15/13 07:24	03/26/13 15:07	1
Heptachlor epoxide	0.0018	U	0.0018	0.00063	mg/Kg	☼	03/15/13 07:24	03/26/13 15:07	1
Isodrin	0.0018	U	0.0018	0.00083	mg/Kg	☼	03/15/13 07:24	03/26/13 15:07	1
Methoxychlor	0.0089	U	0.0089	0.00035	mg/Kg	☼	03/15/13 07:24	03/26/13 15:07	1
Toxaphene	0.018	U	0.018	0.0075	mg/Kg	☼	03/15/13 07:24	03/26/13 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*		*56 - 128*	*03/15/13 07:24*	*03/26/13 15:07*	*1*
Tetrachloro-m-xylene	*61*		*45 - 112*	*03/15/13 07:24*	*03/26/13 15:07*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.018	U	0.018	0.0063	mg/Kg	☼	03/15/13 07:24	03/20/13 12:53	1
PCB-1221	0.018	U	0.018	0.0078	mg/Kg	☼	03/15/13 07:24	03/20/13 12:53	1

Client Sample ID: DDSB-5-0-2-20130313-01
Date Collected: 03/13/13 10:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-27
Matrix: Solid
Percent Solids: 88.3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	0.018	U	0.018	0.0078	mg/Kg	☼	03/15/13 07:24	03/20/13 12:53	1
PCB-1242	0.018	U	0.018	0.0058	mg/Kg	☼	03/15/13 07:24	03/20/13 12:53	1
PCB-1248	0.018	U	0.018	0.0070	mg/Kg	☼	03/15/13 07:24	03/20/13 12:53	1
PCB-1254	0.018	U	0.018	0.0038	mg/Kg	☼	03/15/13 07:24	03/20/13 12:53	1
PCB-1260	**0.014**	**J**	0.018	0.0087	mg/Kg	☼	03/15/13 07:24	03/20/13 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*50 - 116*	*03/15/13 07:24*	*03/20/13 12:53*	*1*
DCB Decachlorobiphenyl	*101*		*48 - 142*	*03/15/13 07:24*	*03/20/13 12:53*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.073	U	0.073	0.0032	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Azinphos-methyl	0.073	U	0.073	0.017	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Bolstar	0.037	U	0.037	0.0052	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Carbophenthion	0.073	U	0.073	0.0059	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Chlorpyrifos	0.037	U	0.037	0.0076	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Chlorpyrifos-methyl	0.037	U	0.037	0.013	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Coumaphos	0.37	U	0.37	0.024	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Demeton-O	0.092	U	0.092	0.0029	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Demeton-S	0.092	U	0.092	0.0062	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Demeton, Total	0.092	U	0.092	0.0086	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Diazinon	0.037	U	0.037	0.0063	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Dichlofenthion	0.037	U	0.037	0.0047	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Dichlorvos	0.073	U	0.073	0.0071	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Dimethoate	0.073	U	0.073	0.0098	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Disulfoton	0.073	U	0.073	0.018	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
EPN	0.037	U	0.037	0.0050	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Ethion	0.019	U	0.019	0.0059	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Ethoprop	0.019	U	0.019	0.0047	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Ethyl Parathion	0.037	U	0.037	0.0061	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Famphur	0.073	U	0.073	0.0092	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Fensulfothion	0.37	U	0.37	0.013	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Fenthion	0.037	U	0.037	0.0052	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Malathion	0.037	U	0.037	0.0091	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Merphos	0.037	U	0.037	0.012	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Methyl parathion	0.019	U	0.019	0.0060	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Mevinphos	0.073	U	0.073	0.0051	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Monochrotophos	0.37	U	0.37	0.051	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Naled	0.37	U	0.37	0.024	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Phorate	0.037	U	0.037	0.0060	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Ronnel	0.037	U	0.037	0.0047	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Simazine	0.073	U	0.073	0.0036	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Stirophos	0.037	U	0.037	0.0071	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Sulfotepp	0.019	U	0.019	0.0096	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Terbufos	0.019	U	0.019	0.018	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Thionazin	0.037	U	0.037	0.011	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Tokuthion	0.037	U	0.037	0.0060	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1
Trichloronate	0.37	U	0.37	0.0085	mg/Kg	☼	03/16/13 09:29	04/02/13 12:04	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-5-0-2-20130313-01
Date Collected: 03/13/13 10:30
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-27
Matrix: Solid
Percent Solids: 88.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate (TPP)	*49*		*35 - 134*	*03/16/13 09:29*	*04/02/13 12:04*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7000**		20	9.8	mg/Kg	☼	03/17/13 10:25	03/19/13 00:12	1
Antimony	2.0	U	2.0	0.52	mg/Kg	☼	03/17/13 10:25	03/19/13 00:12	1
Arsenic	**0.71**	**J**	2.0	0.58	mg/Kg	☼	03/17/13 10:25	03/19/13 00:12	1
Barium	**8.6**		0.98	0.29	mg/Kg	☼	03/17/13 10:25	03/19/13 00:12	1
Beryllium	**0.49**		0.39	0.020	mg/Kg	☼	03/17/13 10:25	03/19/13 00:12	1
Cadmium	0.49	U	0.49	0.098	mg/Kg	☼	03/17/13 10:25	03/19/13 00:12	1
Calcium	**320**		49	20	mg/Kg	☼	03/17/13 10:25	03/19/13 00:12	1
Chromium	**22**		0.98	0.49	mg/Kg	☼	03/17/13 10:25	03/19/13 00:12	1
Cobalt	**1.2**		0.98	0.12	mg/Kg	☼	03/17/13 10:25	03/19/13 00:12	1
Copper	**11**		2.4	1.1	mg/Kg	☼	03/17/13 10:25	03/19/13 00:12	1
Iron	**42000**		20	6.8	mg/Kg	☼	03/17/13 10:25	03/19/13 00:12	1
Lead	**5.2**		0.98	0.52	mg/Kg	☼	03/17/13 10:25	03/19/13 00:12	1
Magnesium	**98**		49	2.3	mg/Kg	☼	03/17/13 10:25	03/19/13 00:12	1
Manganese	**180**		0.98	0.29	mg/Kg	☼	03/17/13 10:25	03/19/13 00:12	1
Nickel	**1.4**	**J**	3.9	0.30	mg/Kg	☼	03/17/13 10:25	03/19/13 00:12	1
Potassium	**150**		98	7.8	mg/Kg	☼	03/17/13 10:25	03/19/13 00:12	1
Selenium	2.4	U	2.4	0.98	mg/Kg	☼	03/17/13 10:25	03/19/13 00:12	1
Silver	0.98	U	0.98	0.094	mg/Kg	☼	03/17/13 10:25	03/19/13 00:12	1
Sodium	200	U	200	80	mg/Kg	☼	03/17/13 10:25	03/19/13 00:12	1
Thallium	2.4	U	2.4	0.97	mg/Kg	☼	03/17/13 10:25	03/19/13 00:12	1
Vanadium	**59**		0.98	0.23	mg/Kg	☼	03/17/13 10:25	03/19/13 00:12	1
Zinc	**21**		2.0	1.2	mg/Kg	☼	03/17/13 10:25	03/19/13 00:12	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.012**	**J**	0.020	0.0083	mg/Kg	☼	03/14/13 11:34	03/15/13 17:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	**0.79**	**J**	1.1	0.32	mg/Kg	☼	03/15/13 10:20	03/16/13 11:20	1
Cyanide, Total	0.56	U	0.56	0.23	mg/Kg	☼	03/14/13 10:30	03/15/13 10:09	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: TRIP BLANK
Date Collected: 03/13/13 00:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-28
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			03/18/13 15:48	1
Benzene	1.0	U	1.0	0.25	ug/L			03/18/13 15:48	1
Bromobenzene	1.0	U	1.0	0.16	ug/L			03/18/13 15:48	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/18/13 15:48	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			03/18/13 15:48	1
Bromoform	1.0	U	1.0	0.50	ug/L			03/18/13 15:48	1
Bromomethane	1.0	U	1.0	0.80	ug/L			03/18/13 15:48	1
2-Butanone	10	U	10	1.0	ug/L			03/18/13 15:48	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			03/18/13 15:48	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			03/18/13 15:48	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			03/18/13 15:48	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			03/18/13 15:48	1
Chloroethane	1.0	U	1.0	1.0	ug/L			03/18/13 15:48	1
Chloroform	1.0	U	1.0	0.14	ug/L			03/18/13 15:48	1
Chloromethane	1.0	U	1.0	0.33	ug/L			03/18/13 15:48	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/L			03/18/13 15:48	1
4-Chlorotoluene	1.0	U	1.0	0.27	ug/L			03/18/13 15:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			03/18/13 15:48	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			03/18/13 15:48	1
Cyclohexane	1.0	U	1.0	0.25	ug/L			03/18/13 15:48	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			03/18/13 15:48	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			03/18/13 15:48	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			03/18/13 15:48	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			03/18/13 15:48	1
1,3-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			03/18/13 15:48	1
1,4-Dichlorobenzene	1.0	U	1.0	0.28	ug/L			03/18/13 15:48	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			03/18/13 15:48	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			03/18/13 15:48	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			03/18/13 15:48	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			03/18/13 15:48	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			03/18/13 15:48	1
1,3-Dichloropropane	1.0	U	1.0	0.13	ug/L			03/18/13 15:48	1
2,2-Dichloropropane	1.0	U	1.0	0.12	ug/L			03/18/13 15:48	1
1,1-Dichloropropene	1.0	U	1.0	0.25	ug/L			03/18/13 15:48	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/18/13 15:48	1
Hexachlorobutadiene	1.0	U	1.0	0.40	ug/L			03/18/13 15:48	1
2-Hexanone	10	U	10	1.0	ug/L			03/18/13 15:48	1
Isopropylbenzene	1.0	U	1.0	0.10	ug/L			03/18/13 15:48	1
Methyl acetate	1.0	U	1.0	0.19	ug/L			03/18/13 15:48	1
Methylcyclohexane	1.0	U	1.0	0.10	ug/L			03/18/13 15:48	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			03/18/13 15:48	1
4-Methyl-2-pentanone	10	U	10	1.0	ug/L			03/18/13 15:48	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			03/18/13 15:48	1
Naphthalene	5.0	U	5.0	1.0	ug/L			03/18/13 15:48	1
n-Butylbenzene	1.0	U	1.0	0.10	ug/L			03/18/13 15:48	1
N-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/18/13 15:48	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/18/13 15:48	1
sec-Butylbenzene	1.0	U	1.0	0.16	ug/L			03/18/13 15:48	1
Styrene	1.0	U	1.0	0.11	ug/L			03/18/13 15:48	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: TRIP BLANK
Date Collected: 03/13/13 00:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-28
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	1.0	0.12	ug/L			03/18/13 15:48	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			03/18/13 15:48	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			03/18/13 15:48	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/18/13 15:48	1
Toluene	1.0	U	1.0	0.33	ug/L			03/18/13 15:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			03/18/13 15:48	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			03/18/13 15:48	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			03/18/13 15:48	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.25	ug/L			03/18/13 15:48	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			03/18/13 15:48	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			03/18/13 15:48	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			03/18/13 15:48	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			03/18/13 15:48	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			03/18/13 15:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			03/18/13 15:48	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			03/18/13 15:48	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			03/18/13 15:48	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			03/18/13 15:48	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			03/18/13 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*03/18/13 15:48*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*03/18/13 15:48*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*03/18/13 15:48*	*1*

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: TRIP BLANK
Date Collected: 03/13/13 00:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-29
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			03/18/13 14:49	1
Benzene	1.0	U	1.0	0.25	ug/L			03/18/13 14:49	1
Bromobenzene	1.0	U	1.0	0.16	ug/L			03/18/13 14:49	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/18/13 14:49	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			03/18/13 14:49	1
Bromoform	1.0	U	1.0	0.50	ug/L			03/18/13 14:49	1
Bromomethane	1.0	U	1.0	0.80	ug/L			03/18/13 14:49	1
2-Butanone	10	U	10	1.0	ug/L			03/18/13 14:49	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			03/18/13 14:49	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			03/18/13 14:49	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			03/18/13 14:49	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			03/18/13 14:49	1
Chloroethane	1.0	U	1.0	1.0	ug/L			03/18/13 14:49	1
Chloroform	1.0	U	1.0	0.14	ug/L			03/18/13 14:49	1
Chloromethane	1.0	U	1.0	0.33	ug/L			03/18/13 14:49	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/L			03/18/13 14:49	1
4-Chlorotoluene	1.0	U	1.0	0.27	ug/L			03/18/13 14:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			03/18/13 14:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			03/18/13 14:49	1
Cyclohexane	1.0	U	1.0	0.25	ug/L			03/18/13 14:49	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			03/18/13 14:49	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			03/18/13 14:49	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			03/18/13 14:49	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			03/18/13 14:49	1
1,3-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			03/18/13 14:49	1
1,4-Dichlorobenzene	1.0	U	1.0	0.28	ug/L			03/18/13 14:49	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			03/18/13 14:49	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			03/18/13 14:49	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			03/18/13 14:49	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			03/18/13 14:49	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			03/18/13 14:49	1
1,3-Dichloropropane	1.0	U	1.0	0.13	ug/L			03/18/13 14:49	1
2,2-Dichloropropane	1.0	U	1.0	0.12	ug/L			03/18/13 14:49	1
1,1-Dichloropropene	1.0	U	1.0	0.25	ug/L			03/18/13 14:49	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/18/13 14:49	1
Hexachlorobutadiene	1.0	U	1.0	0.40	ug/L			03/18/13 14:49	1
2-Hexanone	10	U	10	1.0	ug/L			03/18/13 14:49	1
Isopropylbenzene	1.0	U	1.0	0.10	ug/L			03/18/13 14:49	1
Methyl acetate	1.0	U	1.0	0.19	ug/L			03/18/13 14:49	1
Methylcyclohexane	1.0	U	1.0	0.10	ug/L			03/18/13 14:49	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			03/18/13 14:49	1
4-Methyl-2-pentanone	10	U	10	1.0	ug/L			03/18/13 14:49	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			03/18/13 14:49	1
Naphthalene	5.0	U	5.0	1.0	ug/L			03/18/13 14:49	1
n-Butylbenzene	1.0	U	1.0	0.10	ug/L			03/18/13 14:49	1
N-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/18/13 14:49	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/18/13 14:49	1
sec-Butylbenzene	1.0	U	1.0	0.16	ug/L			03/18/13 14:49	1
Styrene	1.0	U	1.0	0.11	ug/L			03/18/13 14:49	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: TRIP BLANK
Date Collected: 03/13/13 00:00
Date Received: 03/13/13 15:50

Lab Sample ID: 680-88289-29
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	1.0	0.12	ug/L			03/18/13 14:49	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			03/18/13 14:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			03/18/13 14:49	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/18/13 14:49	1
Toluene	1.0	U	1.0	0.33	ug/L			03/18/13 14:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			03/18/13 14:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			03/18/13 14:49	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			03/18/13 14:49	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.25	ug/L			03/18/13 14:49	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			03/18/13 14:49	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			03/18/13 14:49	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			03/18/13 14:49	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			03/18/13 14:49	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			03/18/13 14:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			03/18/13 14:49	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			03/18/13 14:49	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			03/18/13 14:49	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			03/18/13 14:49	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			03/18/13 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*03/18/13 14:49*	*1*
Dibromofluoromethane	*106*		*70 - 130*		*03/18/13 14:49*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*03/18/13 14:49*	*1*

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

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

Lab Sample ID: MB 680-269749/6
Matrix: Water
Analysis Batch: 269749

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			03/18/13 13:28	1
Benzene	1.0	U	1.0	0.25	ug/L			03/18/13 13:28	1
Bromobenzene	1.0	U	1.0	0.16	ug/L			03/18/13 13:28	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/18/13 13:28	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			03/18/13 13:28	1
Bromoform	1.0	U	1.0	0.50	ug/L			03/18/13 13:28	1
Bromomethane	1.0	U	1.0	0.80	ug/L			03/18/13 13:28	1
2-Butanone	10	U	10	1.0	ug/L			03/18/13 13:28	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			03/18/13 13:28	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			03/18/13 13:28	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			03/18/13 13:28	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			03/18/13 13:28	1
Chloroethane	1.0	U	1.0	1.0	ug/L			03/18/13 13:28	1
Chloroform	1.0	U	1.0	0.14	ug/L			03/18/13 13:28	1
Chloromethane	1.0	U	1.0	0.33	ug/L			03/18/13 13:28	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/L			03/18/13 13:28	1
4-Chlorotoluene	1.0	U	1.0	0.27	ug/L			03/18/13 13:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			03/18/13 13:28	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			03/18/13 13:28	1
Cyclohexane	1.0	U	1.0	0.25	ug/L			03/18/13 13:28	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			03/18/13 13:28	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			03/18/13 13:28	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			03/18/13 13:28	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			03/18/13 13:28	1
1,3-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			03/18/13 13:28	1
1,4-Dichlorobenzene	1.0	U	1.0	0.28	ug/L			03/18/13 13:28	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			03/18/13 13:28	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			03/18/13 13:28	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			03/18/13 13:28	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			03/18/13 13:28	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			03/18/13 13:28	1
2,2-Dichloropropane	1.0	U	1.0	0.12	ug/L			03/18/13 13:28	1
1,3-Dichloropropane	1.0	U	1.0	0.13	ug/L			03/18/13 13:28	1
1,1-Dichloropropene	1.0	U	1.0	0.25	ug/L			03/18/13 13:28	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/18/13 13:28	1
Hexachlorobutadiene	1.0	U	1.0	0.40	ug/L			03/18/13 13:28	1
2-Hexanone	10	U	10	1.0	ug/L			03/18/13 13:28	1
Isopropylbenzene	1.0	U	1.0	0.10	ug/L			03/18/13 13:28	1
Methyl acetate	1.0	U	1.0	0.19	ug/L			03/18/13 13:28	1
Methylcyclohexane	1.0	U	1.0	0.10	ug/L			03/18/13 13:28	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			03/18/13 13:28	1
4-Methyl-2-pentanone	10	U	10	1.0	ug/L			03/18/13 13:28	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			03/18/13 13:28	1
Naphthalene	5.0	U	5.0	1.0	ug/L			03/18/13 13:28	1
n-Butylbenzene	0.105	J	1.0	0.10	ug/L			03/18/13 13:28	1
N-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/18/13 13:28	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/18/13 13:28	1
sec-Butylbenzene	1.0	U	1.0	0.16	ug/L			03/18/13 13:28	1

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

Lab Sample ID: MB 680-269749/6
Matrix: Water
Analysis Batch: 269749

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U	1.0	0.11	ug/L			03/18/13 13:28	1
tert-Butylbenzene	1.0	U	1.0	0.12	ug/L			03/18/13 13:28	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			03/18/13 13:28	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			03/18/13 13:28	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/18/13 13:28	1
Toluene	1.0	U	1.0	0.33	ug/L			03/18/13 13:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			03/18/13 13:28	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			03/18/13 13:28	1
1,2,3-Trichlorobenzene	0.419	J	1.0	0.35	ug/L			03/18/13 13:28	1
1,2,4-Trichlorobenzene	0.343	J	1.0	0.25	ug/L			03/18/13 13:28	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			03/18/13 13:28	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			03/18/13 13:28	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			03/18/13 13:28	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			03/18/13 13:28	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			03/18/13 13:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			03/18/13 13:28	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			03/18/13 13:28	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			03/18/13 13:28	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			03/18/13 13:28	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			03/18/13 13:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*03/18/13 13:28*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*03/18/13 13:28*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*03/18/13 13:28*	*1*

Lab Sample ID: LCS 680-269749/4
Matrix: Water
Analysis Batch: 269749

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	101		ug/L		101	39 - 162
Benzene	50.0	50.7		ug/L		101	74 - 123
Bromobenzene	50.0	47.3		ug/L		95	79 - 125
Bromochloromethane	50.0	48.8		ug/L		98	60 - 136
Bromodichloromethane	50.0	53.1		ug/L		106	72 - 129
Bromoform	50.0	55.2		ug/L		110	60 - 134
Bromomethane	50.0	58.9		ug/L		118	10 - 171
2-Butanone	100	103		ug/L		103	55 - 142
Carbon disulfide	50.0	48.4		ug/L		97	63 - 142
Carbon tetrachloride	50.0	52.9		ug/L		106	70 - 131
Chlorobenzene	50.0	47.5		ug/L		95	79 - 120
Chlorodibromomethane	50.0	51.7		ug/L		103	63 - 134
Chloroethane	50.0	51.7		ug/L		103	47 - 148
Chloroform	50.0	49.1		ug/L		98	76 - 128
Chloromethane	50.0	48.4		ug/L		97	47 - 151
2-Chlorotoluene	50.0	48.8		ug/L		98	78 - 126
4-Chlorotoluene	50.0	47.7		ug/L		95	79 - 124

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

Lab Sample ID: LCS 680-269749/4
Matrix: Water
Analysis Batch: 269749

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	50.0	51.7		ug/L		103	78 - 127
cis-1,3-Dichloropropene	50.0	53.1		ug/L		106	73 - 128
Cyclohexane	50.0	55.1		ug/L		110	68 - 137
1,2-Dibromo-3-Chloropropane	50.0	55.2		ug/L		110	57 - 126
1,2-Dibromoethane	50.0	47.8		ug/L		96	75 - 127
Dibromomethane	50.0	47.8		ug/L		96	75 - 122
1,2-Dichlorobenzene	50.0	47.1		ug/L		94	77 - 124
1,3-Dichlorobenzene	50.0	47.0		ug/L		94	79 - 123
1,4-Dichlorobenzene	50.0	47.0		ug/L		94	76 - 124
Dichlorodifluoromethane	50.0	52.0		ug/L		104	41 - 165
1,1-Dichloroethane	50.0	53.2		ug/L		106	69 - 132
1,2-Dichloroethane	50.0	45.6		ug/L		91	75 - 120
1,1-Dichloroethene	50.0	51.2		ug/L		102	73 - 134
1,2-Dichloropropane	50.0	50.2		ug/L		100	71 - 126
2,2-Dichloropropane	50.0	56.0		ug/L		112	72 - 147
1,3-Dichloropropane	50.0	48.4		ug/L		97	73 - 125
1,1-Dichloropropene	50.0	51.5		ug/L		103	74 - 130
Ethylbenzene	50.0	49.1		ug/L		98	78 - 125
Hexachlorobutadiene	50.0	51.1		ug/L		102	62 - 145
2-Hexanone	100	104		ug/L		104	52 - 149
Isopropylbenzene	50.0	47.1		ug/L		94	72 - 129
Methyl acetate	50.0	61.3		ug/L		123	26 - 182
Methylcyclohexane	50.0	51.2		ug/L		102	72 - 133
Methylene Chloride	50.0	46.0		ug/L		92	79 - 124
4-Methyl-2-pentanone	100	104		ug/L		104	51 - 143
Methyl tert-butyl ether	100	100		ug/L		100	76 - 126
Naphthalene	50.0	52.8		ug/L		106	56 - 136
n-Butylbenzene	50.0	52.5		ug/L		105	72 - 128
N-Propylbenzene	50.0	51.0		ug/L		102	74 - 130
p-Isopropyltoluene	50.0	50.1		ug/L		100	69 - 129
sec-Butylbenzene	50.0	51.0		ug/L		102	71 - 130
Styrene	50.0	48.5		ug/L		97	75 - 129
tert-Butylbenzene	50.0	50.2		ug/L		100	72 - 130
1,1,2,2-Tetrachloroethane	50.0	48.4		ug/L		97	71 - 127
1,1,1,2-Tetrachloroethane	50.0	50.4		ug/L		101	68 - 132
Tetrachloroethene	50.0	49.3		ug/L		99	77 - 128
Toluene	50.0	48.4		ug/L		97	77 - 125
trans-1,2-Dichloroethene	50.0	51.7		ug/L		103	78 - 130
trans-1,3-Dichloropropene	50.0	52.6		ug/L		105	72 - 127
1,2,3-Trichlorobenzene	50.0	51.2		ug/L		102	63 - 136
1,2,4-Trichlorobenzene	50.0	49.6		ug/L		99	67 - 134
1,1,1-Trichloroethane	50.0	52.3		ug/L		105	76 - 126
1,1,2-Trichloroethane	50.0	45.5		ug/L		91	69 - 127
Trichloroethene	50.0	48.9		ug/L		98	80 - 120
Trichlorofluoromethane	50.0	50.3		ug/L		101	66 - 144
1,2,3-Trichloropropane	50.0	47.6		ug/L		95	74 - 126
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.1		ug/L		112	72 - 139

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

Lab Sample ID: LCS 680-269749/4
Matrix: Water
Analysis Batch: 269749

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	50.0	48.9		ug/L		98	72 - 129
1,3,5-Trimethylbenzene	50.0	50.0		ug/L		100	72 - 130
Vinyl chloride	50.0	53.2		ug/L		106	58 - 141
Xylenes, Total	150	147		ug/L		98	80 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*70 - 130*
Dibromofluoromethane	*100*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 680-269749/5
Matrix: Water
Analysis Batch: 269749

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	105		ug/L		105	39 - 162	4	50
Benzene	50.0	52.4		ug/L		105	74 - 123	3	30
Bromobenzene	50.0	50.1		ug/L		100	79 - 125	6	30
Bromochloromethane	50.0	45.8		ug/L		92	60 - 136	6	30
Bromodichloromethane	50.0	54.1		ug/L		108	72 - 129	2	30
Bromoform	50.0	57.0		ug/L		114	60 - 134	3	30
Bromomethane	50.0	56.3		ug/L		113	10 - 171	5	50
2-Butanone	100	105		ug/L		105	55 - 142	2	30
Carbon disulfide	50.0	53.8		ug/L		108	63 - 142	11	30
Carbon tetrachloride	50.0	54.4		ug/L		109	70 - 131	3	30
Chlorobenzene	50.0	50.2		ug/L		100	79 - 120	6	30
Chlorodibromomethane	50.0	53.4		ug/L		107	63 - 134	3	50
Chloroethane	50.0	53.7		ug/L		107	47 - 148	4	40
Chloroform	50.0	51.2		ug/L		102	76 - 128	4	30
Chloromethane	50.0	51.7		ug/L		103	47 - 151	7	30
2-Chlorotoluene	50.0	51.3		ug/L		103	78 - 126	5	30
4-Chlorotoluene	50.0	49.7		ug/L		99	79 - 124	4	30
cis-1,2-Dichloroethene	50.0	53.6		ug/L		107	78 - 127	4	30
cis-1,3-Dichloropropene	50.0	55.7		ug/L		111	73 - 128	5	30
Cyclohexane	50.0	57.0		ug/L		114	68 - 137	3	30
1,2-Dibromo-3-Chloropropane	50.0	57.0		ug/L		114	57 - 126	3	50
1,2-Dibromoethane	50.0	49.5		ug/L		99	75 - 127	4	30
Dibromomethane	50.0	50.1		ug/L		100	75 - 122	5	30
1,2-Dichlorobenzene	50.0	49.5		ug/L		99	77 - 124	5	30
1,3-Dichlorobenzene	50.0	49.2		ug/L		98	79 - 123	5	30
1,4-Dichlorobenzene	50.0	49.2		ug/L		98	76 - 124	5	30
Dichlorodifluoromethane	50.0	60.8		ug/L		122	41 - 165	16	50
1,1-Dichloroethane	50.0	56.0		ug/L		112	69 - 132	5	30
1,2-Dichloroethane	50.0	47.0		ug/L		94	75 - 120	3	30
1,1-Dichloroethene	50.0	54.8		ug/L		110	73 - 134	7	30
1,2-Dichloropropane	50.0	52.0		ug/L		104	71 - 126	3	30
2,2-Dichloropropane	50.0	60.8		ug/L		122	72 - 147	8	30
1,3-Dichloropropane	50.0	50.9		ug/L		102	73 - 125	5	30

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

Lab Sample ID: LCSD 680-269749/5
Matrix: Water
Analysis Batch: 269749

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloropropene			50.0	53.6		ug/L		107	74 - 130	4	30
Ethylbenzene			50.0	51.8		ug/L		104	78 - 125	5	30
Hexachlorobutadiene			50.0	50.7		ug/L		101	62 - 145	1	30
2-Hexanone			100	106		ug/L		106	52 - 149	2	30
Isopropylbenzene			50.0	48.9		ug/L		98	72 - 129	4	30
Methyl acetate			50.0	64.4		ug/L		129	26 - 182	5	30
Methylcyclohexane			50.0	53.9		ug/L		108	72 - 133	5	30
Methylene Chloride			50.0	50.4		ug/L		101	79 - 124	9	30
4-Methyl-2-pentanone			100	103		ug/L		103	51 - 143	1	30
Methyl tert-butyl ether			100	102		ug/L		102	76 - 126	1	30
Naphthalene			50.0	54.0		ug/L		108	56 - 136	2	30
n-Butylbenzene			50.0	53.9		ug/L		108	72 - 128	3	30
N-Propylbenzene			50.0	52.7		ug/L		105	74 - 130	3	30
p-Isopropyltoluene			50.0	52.3		ug/L		105	69 - 129	4	50
sec-Butylbenzene			50.0	53.0		ug/L		106	71 - 130	4	30
Styrene			50.0	50.7		ug/L		101	75 - 129	5	30
tert-Butylbenzene			50.0	52.7		ug/L		105	72 - 130	5	30
1,1,2,2-Tetrachloroethane			50.0	50.3		ug/L		101	71 - 127	4	30
1,1,1,2-Tetrachloroethane			50.0	52.1		ug/L		104	68 - 132	3	30
Tetrachloroethene			50.0	52.8		ug/L		106	77 - 128	7	30
Toluene			50.0	50.5		ug/L		101	77 - 125	4	30
trans-1,2-Dichloroethene			50.0	53.6		ug/L		107	78 - 130	4	30
trans-1,3-Dichloropropene			50.0	55.5		ug/L		111	72 - 127	5	50
1,2,3-Trichlorobenzene			50.0	51.7		ug/L		103	63 - 136	1	30
1,2,4-Trichlorobenzene			50.0	51.4		ug/L		103	67 - 134	4	30
1,1,1-Trichloroethane			50.0	54.2		ug/L		108	76 - 126	3	30
1,1,2-Trichloroethane			50.0	47.7		ug/L		95	69 - 127	5	30
Trichloroethene			50.0	50.7		ug/L		101	80 - 120	4	30
Trichlorofluoromethane			50.0	54.6		ug/L		109	66 - 144	8	30
1,2,3-Trichloropropane			50.0	49.1		ug/L		98	74 - 126	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	59.6		ug/L		119	72 - 139	6	30
1,2,4-Trimethylbenzene			50.0	51.1		ug/L		102	72 - 129	5	50
1,3,5-Trimethylbenzene			50.0	52.8		ug/L		106	72 - 130	5	50
Vinyl chloride			50.0	58.7		ug/L		117	58 - 141	10	30
Xylenes, Total			150	153		ug/L		102	80 - 124	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*70 - 130*
Dibromofluoromethane	*105*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 680-270013/7
Matrix: Solid
Analysis Batch: 270013

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.0	U	2.0	0.44	mg/Kg			03/19/13 14:14	40

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

Lab Sample ID: MB 680-270013/7
Matrix: Solid
Analysis Batch: 270013

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.20	U	0.20	0.029	mg/Kg			03/19/13 14:14	40
Bromobenzene	0.20	U	0.20	0.068	mg/Kg			03/19/13 14:14	40
Bromochloromethane	0.20	U	0.20	0.13	mg/Kg			03/19/13 14:14	40
Bromodichloromethane	0.20	U	0.20	0.039	mg/Kg			03/19/13 14:14	40
Bromoform	0.20	U	0.20	0.060	mg/Kg			03/19/13 14:14	40
Bromomethane	0.20	U	0.20	0.060	mg/Kg			03/19/13 14:14	40
2-Butanone	1.0	U	1.0	0.096	mg/Kg			03/19/13 14:14	40
Carbon disulfide	0.20	U	0.20	0.044	mg/Kg			03/19/13 14:14	40
Carbon tetrachloride	0.20	U	0.20	0.033	mg/Kg			03/19/13 14:14	40
Chlorobenzene	0.20	U	0.20	0.038	mg/Kg			03/19/13 14:14	40
Chlorodibromomethane	0.20	U	0.20	0.068	mg/Kg			03/19/13 14:14	40
Chloroethane	0.20	U	0.20	0.11	mg/Kg			03/19/13 14:14	40
Chloroform	0.20	U	0.20	0.044	mg/Kg			03/19/13 14:14	40
Chloromethane	0.20	U	0.20	0.040	mg/Kg			03/19/13 14:14	40
2-Chlorotoluene	0.20	U	0.20	0.080	mg/Kg			03/19/13 14:14	40
4-Chlorotoluene	0.20	U	0.20	0.068	mg/Kg			03/19/13 14:14	40
cis-1,2-Dichloroethene	0.20	U	0.20	0.056	mg/Kg			03/19/13 14:14	40
cis-1,3-Dichloropropene	0.20	U	0.20	0.033	mg/Kg			03/19/13 14:14	40
Cyclohexane	0.40	U	0.40	0.052	mg/Kg			03/19/13 14:14	40
1,2-Dibromo-3-Chloropropane	0.40	U	0.40	0.18	mg/Kg			03/19/13 14:14	40
1,2-Dibromoethane	0.20	U	0.20	0.060	mg/Kg			03/19/13 14:14	40
Dibromomethane	0.20	U	0.20	0.068	mg/Kg			03/19/13 14:14	40
1,2-Dichlorobenzene	0.20	U	0.20	0.052	mg/Kg			03/19/13 14:14	40
1,3-Dichlorobenzene	0.20	U	0.20	0.064	mg/Kg			03/19/13 14:14	40
1,4-Dichlorobenzene	0.20	U	0.20	0.030	mg/Kg			03/19/13 14:14	40
Dichlorodifluoromethane	0.20	U	0.20	0.038	mg/Kg			03/19/13 14:14	40
1,1-Dichloroethane	0.20	U	0.20	0.044	mg/Kg			03/19/13 14:14	40
1,2-Dichloroethane	0.20	U	0.20	0.044	mg/Kg			03/19/13 14:14	40
1,1-Dichloroethene	0.20	U	0.20	0.060	mg/Kg			03/19/13 14:14	40
1,2-Dichloropropane	0.20	U	0.20	0.034	mg/Kg			03/19/13 14:14	40
2,2-Dichloropropane	0.20	U	0.20	0.044	mg/Kg			03/19/13 14:14	40
1,3-Dichloropropane	0.20	U	0.20	0.072	mg/Kg			03/19/13 14:14	40
1,1-Dichloropropene	0.20	U	0.20	0.038	mg/Kg			03/19/13 14:14	40
Ethylbenzene	0.20	U	0.20	0.052	mg/Kg			03/19/13 14:14	40
Hexachlorobutadiene	0.20	U	0.20	0.12	mg/Kg			03/19/13 14:14	40
2-Hexanone	1.0	U	1.0	0.13	mg/Kg			03/19/13 14:14	40
Isopropylbenzene	0.20	U	0.20	0.076	mg/Kg			03/19/13 14:14	40
Methyl acetate	0.40	U	0.40	0.20	mg/Kg			03/19/13 14:14	40
Methylcyclohexane	0.40	U	0.40	0.034	mg/Kg			03/19/13 14:14	40
Methylene Chloride	0.20	U	0.20	0.039	mg/Kg			03/19/13 14:14	40
4-Methyl-2-pentanone	1.0	U	1.0	0.17	mg/Kg			03/19/13 14:14	40
Methyl tert-butyl ether	0.40	U	0.40	0.040	mg/Kg			03/19/13 14:14	40
Naphthalene	0.20	U	0.20	0.048	mg/Kg			03/19/13 14:14	40
n-Butylbenzene	0.20	U	0.20	0.096	mg/Kg			03/19/13 14:14	40
N-Propylbenzene	0.20	U	0.20	0.11	mg/Kg			03/19/13 14:14	40
p-Isopropyltoluene	0.20	U	0.20	0.088	mg/Kg			03/19/13 14:14	40
sec-Butylbenzene	0.20	U	0.20	0.084	mg/Kg			03/19/13 14:14	40
Styrene	0.20	U	0.20	0.037	mg/Kg			03/19/13 14:14	40

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

Lab Sample ID: MB 680-270013/7
Matrix: Solid
Analysis Batch: 270013

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.20	U	0.20	0.072	mg/Kg			03/19/13 14:14	40
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.064	mg/Kg			03/19/13 14:14	40
1,1,1,2-Tetrachloroethane	0.20	U	0.20	0.096	mg/Kg			03/19/13 14:14	40
Tetrachloroethene	0.20	U	0.20	0.076	mg/Kg			03/19/13 14:14	40
Toluene	0.20	U	0.20	0.034	mg/Kg			03/19/13 14:14	40
trans-1,2-Dichloroethene	0.20	U	0.20	0.025	mg/Kg			03/19/13 14:14	40
trans-1,3-Dichloropropene	0.20	U	0.20	0.035	mg/Kg			03/19/13 14:14	40
1,2,3-Trichlorobenzene	0.20	U	0.20	0.064	mg/Kg			03/19/13 14:14	40
1,2,4-Trichlorobenzene	0.20	U	0.20	0.036	mg/Kg			03/19/13 14:14	40
1,1,1-Trichloroethane	0.20	U	0.20	0.024	mg/Kg			03/19/13 14:14	40
1,1,2-Trichloroethane	0.20	U	0.20	0.052	mg/Kg			03/19/13 14:14	40
Trichloroethene	0.20	U	0.20	0.052	mg/Kg			03/19/13 14:14	40
Trichlorofluoromethane	0.20	U	0.20	0.048	mg/Kg			03/19/13 14:14	40
1,2,3-Trichloropropane	0.20	U	0.20	0.096	mg/Kg			03/19/13 14:14	40
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	0.052	mg/Kg			03/19/13 14:14	40
1,2,4-Trimethylbenzene	0.20	U	0.20	0.056	mg/Kg			03/19/13 14:14	40
1,3,5-Trimethylbenzene	0.20	U	0.20	0.068	mg/Kg			03/19/13 14:14	40
Vinyl chloride	0.20	U	0.20	0.060	mg/Kg			03/19/13 14:14	40
Xylenes, Total	0.40	U	0.40	0.044	mg/Kg			03/19/13 14:14	40

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*110*		*65 - 130*		*03/19/13 14:14*	*40*
Dibromofluoromethane	*109*		*65 - 130*		*03/19/13 14:14*	*40*
Toluene-d8 (Surr)	*110*		*65 - 130*		*03/19/13 14:14*	*40*

Lab Sample ID: LCS 680-270013/4
Matrix: Solid
Analysis Batch: 270013

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	5.00	5.13		mg/Kg		103	54 - 139
Benzene	2.50	2.30		mg/Kg		92	76 - 120
Bromobenzene	2.50	2.33		mg/Kg		93	77 - 131
Bromochloromethane	2.50	2.35		mg/Kg		94	80 - 120
Bromodichloromethane	2.50	2.26		mg/Kg		90	72 - 131
Bromoform	2.50	2.26		mg/Kg		90	64 - 150
Bromomethane	2.50	1.19		mg/Kg		48	10 - 174
2-Butanone	5.00	4.80		mg/Kg		96	66 - 123
Carbon disulfide	2.50	2.32		mg/Kg		93	74 - 125
Carbon tetrachloride	2.50	2.28		mg/Kg		91	67 - 140
Chlorobenzene	2.50	2.35		mg/Kg		94	80 - 120
Chlorodibromomethane	2.50	2.40		mg/Kg		96	77 - 132
Chloroethane	2.50	1.04		mg/Kg		42	10 - 176
Chloroform	2.50	2.37		mg/Kg		95	80 - 121
Chloromethane	2.50	2.64		mg/Kg		106	48 - 146
2-Chlorotoluene	2.50	2.29		mg/Kg		92	77 - 124
4-Chlorotoluene	2.50	2.27		mg/Kg		91	78 - 124
cis-1,2-Dichloroethene	2.50	2.35		mg/Kg		94	80 - 120

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

Lab Sample ID: LCS 680-270013/4
Matrix: Solid
Analysis Batch: 270013

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	2.50	2.38		mg/Kg		95	74 - 125
Cyclohexane	2.50	2.31		mg/Kg		92	70 - 130
1,2-Dibromo-3-Chloropropane	2.50	2.26		mg/Kg		90	49 - 152
1,2-Dibromoethane	2.50	2.39		mg/Kg		96	72 - 129
Dibromomethane	2.50	2.36		mg/Kg		94	73 - 127
1,2-Dichlorobenzene	2.50	2.21		mg/Kg		88	75 - 128
1,3-Dichlorobenzene	2.50	2.19		mg/Kg		88	76 - 128
1,4-Dichlorobenzene	2.50	2.16		mg/Kg		86	76 - 128
Dichlorodifluoromethane	2.50	2.28		mg/Kg		91	72 - 134
1,1-Dichloroethane	2.50	2.39		mg/Kg		96	80 - 120
1,2-Dichloroethane	2.50	2.34		mg/Kg		93	61 - 140
1,1-Dichloroethene	2.50	2.06		mg/Kg		82	64 - 138
1,2-Dichloropropane	2.50	2.25		mg/Kg		90	73 - 121
2,2-Dichloropropane	2.50	2.31		mg/Kg		93	78 - 126
1,3-Dichloropropane	2.50	2.36		mg/Kg		94	70 - 126
1,1-Dichloropropene	2.50	2.32		mg/Kg		93	74 - 124
Ethylbenzene	2.50	2.34		mg/Kg		94	78 - 121
Hexachlorobutadiene	2.50	2.17		mg/Kg		87	70 - 146
2-Hexanone	5.00	5.04		mg/Kg		101	60 - 126
Isopropylbenzene	2.50	2.34		mg/Kg		93	79 - 124
Methyl acetate	2.50	2.67		mg/Kg		107	43 - 135
Methylcyclohexane	2.50	2.24		mg/Kg		90	77 - 118
Methylene Chloride	2.50	2.35		mg/Kg		94	80 - 120
4-Methyl-2-pentanone	5.00	4.80		mg/Kg		96	59 - 127
Methyl tert-butyl ether	5.00	4.99		mg/Kg		100	80 - 121
Naphthalene	2.50	2.57		mg/Kg		103	71 - 138
n-Butylbenzene	2.50	2.20		mg/Kg		88	78 - 121
N-Propylbenzene	2.50	2.21		mg/Kg		89	78 - 125
p-Isopropyltoluene	2.50	2.20		mg/Kg		88	78 - 125
sec-Butylbenzene	2.50	2.21		mg/Kg		89	77 - 123
Styrene	2.50	2.34		mg/Kg		93	78 - 123
tert-Butylbenzene	2.50	2.21		mg/Kg		88	79 - 127
1,1,2,2-Tetrachloroethane	2.50	2.28		mg/Kg		91	70 - 123
1,1,1,2-Tetrachloroethane	2.50	2.35		mg/Kg		94	80 - 129
Tetrachloroethene	2.50	2.28		mg/Kg		91	77 - 130
Toluene	2.50	2.28		mg/Kg		91	73 - 122
trans-1,2-Dichloroethene	2.50	2.39		mg/Kg		96	79 - 120
trans-1,3-Dichloropropene	2.50	2.36		mg/Kg		94	69 - 133
1,2,3-Trichlorobenzene	2.50	2.53		mg/Kg		101	74 - 146
1,2,4-Trichlorobenzene	2.50	2.23		mg/Kg		89	77 - 142
1,1,1-Trichloroethane	2.50	2.33		mg/Kg		93	73 - 132
1,1,2-Trichloroethane	2.50	2.33		mg/Kg		93	72 - 124
Trichloroethene	2.50	2.33		mg/Kg		93	78 - 125
Trichlorofluoromethane	2.50	2.21		mg/Kg		88	60 - 148
1,2,3-Trichloropropane	2.50	2.27		mg/Kg		91	67 - 132
1,1,2-Trichloro-1,2,2-trifluoroethane	2.50	1.97		mg/Kg		79	62 - 141
1,2,4-Trimethylbenzene	2.50	2.21		mg/Kg		89	77 - 126

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

Lab Sample ID: LCS 680-270013/4
Matrix: Solid
Analysis Batch: 270013

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,3,5-Trimethylbenzene			2.50	2.26		mg/Kg		90	77 - 126		
Vinyl chloride			2.50	2.61		mg/Kg		105	65 - 133		
Xylenes, Total			7.50	6.97		mg/Kg		93	79 - 121		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*91*		*65 - 130*
Dibromofluoromethane	*93*		*65 - 130*
Toluene-d8 (Surr)	*91*		*65 - 130*

Lab Sample ID: LCSD 680-270013/5
Matrix: Solid
Analysis Batch: 270013

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			5.00	4.49		mg/Kg		90	54 - 139	13	50
Benzene			2.50	2.34		mg/Kg		94	76 - 120	2	50
Bromobenzene			2.50	2.37		mg/Kg		95	77 - 131	2	50
Bromochloromethane			2.50	2.39		mg/Kg		96	80 - 120	2	50
Bromodichloromethane			2.50	2.33		mg/Kg		93	72 - 131	3	50
Bromoform			2.50	2.20		mg/Kg		88	64 - 150	3	50
Bromomethane			2.50	1.32		mg/Kg		53	10 - 174	10	50
2-Butanone			5.00	4.38		mg/Kg		88	66 - 123	9	50
Carbon disulfide			2.50	2.43		mg/Kg		97	74 - 125	4	50
Carbon tetrachloride			2.50	2.39		mg/Kg		96	67 - 140	5	50
Chlorobenzene			2.50	2.41		mg/Kg		96	80 - 120	2	50
Chlorodibromomethane			2.50	2.35		mg/Kg		94	77 - 132	2	50
Chloroethane			2.50	1.12		mg/Kg		45	10 - 176	7	50
Chloroform			2.50	2.43		mg/Kg		97	80 - 121	2	50
Chloromethane			2.50	2.75		mg/Kg		110	48 - 146	4	50
2-Chlorotoluene			2.50	2.33		mg/Kg		93	77 - 124	1	50
4-Chlorotoluene			2.50	2.31		mg/Kg		92	78 - 124	2	50
cis-1,2-Dichloroethene			2.50	2.43		mg/Kg		97	80 - 120	3	50
cis-1,3-Dichloropropene			2.50	2.38		mg/Kg		95	74 - 125	0	50
Cyclohexane			2.50	2.37		mg/Kg		95	70 - 130	3	50
1,2-Dibromo-3-Chloropropane			2.50	1.98		mg/Kg		79	49 - 152	13	50
1,2-Dibromoethane			2.50	2.36		mg/Kg		95	72 - 129	1	50
Dibromomethane			2.50	2.27		mg/Kg		91	73 - 127	4	50
1,2-Dichlorobenzene			2.50	2.24		mg/Kg		90	75 - 128	2	50
1,3-Dichlorobenzene			2.50	2.24		mg/Kg		90	76 - 128	2	50
1,4-Dichlorobenzene			2.50	2.23		mg/Kg		89	76 - 128	3	50
Dichlorodifluoromethane			2.50	2.47		mg/Kg		99	72 - 134	8	50
1,1-Dichloroethane			2.50	2.45		mg/Kg		98	80 - 120	3	50
1,2-Dichloroethane			2.50	2.38		mg/Kg		95	61 - 140	2	50
1,1-Dichloroethene			2.50	2.20		mg/Kg		88	64 - 138	7	50
1,2-Dichloropropane			2.50	2.32		mg/Kg		93	73 - 121	3	50
2,2-Dichloropropane			2.50	2.37		mg/Kg		95	78 - 126	3	50
1,3-Dichloropropane			2.50	2.30		mg/Kg		92	70 - 126	2	50
1,1-Dichloropropene			2.50	2.36		mg/Kg		94	74 - 124	2	50

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

Lab Sample ID: LCSD 680-270013/5
Matrix: Solid
Analysis Batch: 270013

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	2.50	2.37		mg/Kg		95	78 - 121	1	50
Hexachlorobutadiene	2.50	2.24		mg/Kg		90	70 - 146	4	50
2-Hexanone	5.00	4.38		mg/Kg		88	60 - 126	14	50
Isopropylbenzene	2.50	2.36		mg/Kg		94	79 - 124	1	50
Methyl acetate	2.50	2.38		mg/Kg		95	43 - 135	11	50
Methylcyclohexane	2.50	2.30		mg/Kg		92	77 - 118	3	50
Methylene Chloride	2.50	2.40		mg/Kg		96	80 - 120	2	50
4-Methyl-2-pentanone	5.00	4.32		mg/Kg		86	59 - 127	10	50
Methyl tert-butyl ether	5.00	4.98		mg/Kg		100	80 - 121	0	50
Naphthalene	2.50	2.43		mg/Kg		97	71 - 138	6	50
n-Butylbenzene	2.50	2.27		mg/Kg		91	78 - 121	3	50
N-Propylbenzene	2.50	2.24		mg/Kg		90	78 - 125	1	50
p-Isopropyltoluene	2.50	2.28		mg/Kg		91	78 - 125	3	50
sec-Butylbenzene	2.50	2.27		mg/Kg		91	77 - 123	2	50
Styrene	2.50	2.36		mg/Kg		95	78 - 123	1	50
tert-Butylbenzene	2.50	2.28		mg/Kg		91	79 - 127	3	50
1,1,2,2-Tetrachloroethane	2.50	2.09		mg/Kg		84	70 - 123	9	50
1,1,1,2-Tetrachloroethane	2.50	2.37		mg/Kg		95	80 - 129	1	50
Tetrachloroethene	2.50	2.33		mg/Kg		93	77 - 130	2	50
Toluene	2.50	2.33		mg/Kg		93	73 - 122	2	50
trans-1,2-Dichloroethene	2.50	2.43		mg/Kg		97	79 - 120	2	50
trans-1,3-Dichloropropene	2.50	2.36		mg/Kg		94	69 - 133	0	50
1,2,3-Trichlorobenzene	2.50	2.55		mg/Kg		102	74 - 146	1	50
1,2,4-Trichlorobenzene	2.50	2.22		mg/Kg		89	77 - 142	1	50
1,1,1-Trichloroethane	2.50	2.40		mg/Kg		96	73 - 132	3	50
1,1,2-Trichloroethane	2.50	2.32		mg/Kg		93	72 - 124	0	50
Trichloroethene	2.50	2.42		mg/Kg		97	78 - 125	4	50
Trichlorofluoromethane	2.50	2.35		mg/Kg		94	60 - 148	6	50
1,2,3-Trichloropropane	2.50	2.04		mg/Kg		82	67 - 132	10	50
1,1,2-Trichloro-1,2,2-trifluoroethane	2.50	2.07		mg/Kg		83	62 - 141	5	50
1,2,4-Trimethylbenzene	2.50	2.29		mg/Kg		92	77 - 126	3	50
1,3,5-Trimethylbenzene	2.50	2.30		mg/Kg		92	77 - 126	2	50
Vinyl chloride	2.50	2.69		mg/Kg		107	65 - 133	3	50
Xylenes, Total	7.50	7.17		mg/Kg		96	79 - 121	3	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*91*		*65 - 130*
Dibromofluoromethane	*95*		*65 - 130*
Toluene-d8 (Surr)	*94*		*65 - 130*

Lab Sample ID: MB 680-270027/7
Matrix: Solid
Analysis Batch: 270027

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.050	U	0.050	0.011	mg/Kg			03/19/13 13:51	1
Benzene	0.0050	U	0.0050	0.00073	mg/Kg			03/19/13 13:51	1

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

Lab Sample ID: MB 680-270027/7
Matrix: Solid
Analysis Batch: 270027

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	0.0050	U	0.0050	0.0017	mg/Kg			03/19/13 13:51	1
Bromochloromethane	0.0050	U	0.0050	0.0033	mg/Kg			03/19/13 13:51	1
Bromodichloromethane	0.0050	U	0.0050	0.00097	mg/Kg			03/19/13 13:51	1
Bromoform	0.0050	U	0.0050	0.0015	mg/Kg			03/19/13 13:51	1
Bromomethane	0.0050	U	0.0050	0.0015	mg/Kg			03/19/13 13:51	1
2-Butanone	0.025	U	0.025	0.0024	mg/Kg			03/19/13 13:51	1
Carbon disulfide	0.0050	U	0.0050	0.0011	mg/Kg			03/19/13 13:51	1
Carbon tetrachloride	0.0050	U	0.0050	0.00083	mg/Kg			03/19/13 13:51	1
Chlorobenzene	0.0050	U	0.0050	0.00096	mg/Kg			03/19/13 13:51	1
Chlorodibromomethane	0.0050	U	0.0050	0.0017	mg/Kg			03/19/13 13:51	1
Chloroethane	0.0050	U	0.0050	0.0027	mg/Kg			03/19/13 13:51	1
Chloroform	0.0050	U	0.0050	0.0011	mg/Kg			03/19/13 13:51	1
Chloromethane	0.0050	U	0.0050	0.0010	mg/Kg			03/19/13 13:51	1
2-Chlorotoluene	0.0050	U	0.0050	0.0020	mg/Kg			03/19/13 13:51	1
4-Chlorotoluene	0.0050	U	0.0050	0.0017	mg/Kg			03/19/13 13:51	1
cis-1,2-Dichloroethene	0.0050	U	0.0050	0.0014	mg/Kg			03/19/13 13:51	1
cis-1,3-Dichloropropene	0.0050	U	0.0050	0.00083	mg/Kg			03/19/13 13:51	1
Cyclohexane	0.010	U	0.010	0.0013	mg/Kg			03/19/13 13:51	1
1,2-Dibromo-3-Chloropropane	0.010	U	0.010	0.0044	mg/Kg			03/19/13 13:51	1
1,2-Dibromoethane	0.0050	U	0.0050	0.0015	mg/Kg			03/19/13 13:51	1
Dibromomethane	0.0050	U	0.0050	0.0017	mg/Kg			03/19/13 13:51	1
1,2-Dichlorobenzene	0.0050	U	0.0050	0.0013	mg/Kg			03/19/13 13:51	1
1,3-Dichlorobenzene	0.0050	U	0.0050	0.0016	mg/Kg			03/19/13 13:51	1
1,4-Dichlorobenzene	0.0050	U	0.0050	0.00074	mg/Kg			03/19/13 13:51	1
Dichlorodifluoromethane	0.0050	U	0.0050	0.00094	mg/Kg			03/19/13 13:51	1
1,1-Dichloroethane	0.0050	U	0.0050	0.0011	mg/Kg			03/19/13 13:51	1
1,2-Dichloroethane	0.0050	U	0.0050	0.0011	mg/Kg			03/19/13 13:51	1
1,1-Dichloroethene	0.0050	U	0.0050	0.0015	mg/Kg			03/19/13 13:51	1
1,2-Dichloropropane	0.0050	U	0.0050	0.00086	mg/Kg			03/19/13 13:51	1
2,2-Dichloropropane	0.0050	U	0.0050	0.0011	mg/Kg			03/19/13 13:51	1
1,3-Dichloropropane	0.0050	U	0.0050	0.0018	mg/Kg			03/19/13 13:51	1
1,1-Dichloropropene	0.0050	U	0.0050	0.00095	mg/Kg			03/19/13 13:51	1
Ethylbenzene	0.0050	U	0.0050	0.0013	mg/Kg			03/19/13 13:51	1
Hexachlorobutadiene	0.0050	U	0.0050	0.0031	mg/Kg			03/19/13 13:51	1
2-Hexanone	0.025	U	0.025	0.0033	mg/Kg			03/19/13 13:51	1
Isopropylbenzene	0.0050	U	0.0050	0.0019	mg/Kg			03/19/13 13:51	1
Methyl acetate	0.010	U	0.010	0.0050	mg/Kg			03/19/13 13:51	1
Methylcyclohexane	0.010	U	0.010	0.00086	mg/Kg			03/19/13 13:51	1
Methylene Chloride	0.0050	U	0.0050	0.00098	mg/Kg			03/19/13 13:51	1
4-Methyl-2-pentanone	0.025	U	0.025	0.0042	mg/Kg			03/19/13 13:51	1
Methyl tert-butyl ether	0.010	U	0.010	0.0010	mg/Kg			03/19/13 13:51	1
Naphthalene	0.00157	J	0.0050	0.0012	mg/Kg			03/19/13 13:51	1
n-Butylbenzene	0.0050	U	0.0050	0.0024	mg/Kg			03/19/13 13:51	1
N-Propylbenzene	0.0050	U	0.0050	0.0027	mg/Kg			03/19/13 13:51	1
p-Isopropyltoluene	0.0050	U	0.0050	0.0022	mg/Kg			03/19/13 13:51	1
sec-Butylbenzene	0.0050	U	0.0050	0.0021	mg/Kg			03/19/13 13:51	1
Styrene	0.0050	U	0.0050	0.00093	mg/Kg			03/19/13 13:51	1
tert-Butylbenzene	0.0050	U	0.0050	0.0018	mg/Kg			03/19/13 13:51	1

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

Lab Sample ID: MB 680-270027/7
Matrix: Solid
Analysis Batch: 270027

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	0.0050	U	0.0050	0.0016	mg/Kg			03/19/13 13:51	1
1,1,1,2-Tetrachloroethane	0.0050	U	0.0050	0.0024	mg/Kg			03/19/13 13:51	1
Tetrachloroethene	0.0050	U	0.0050	0.0019	mg/Kg			03/19/13 13:51	1
Toluene	0.0050	U	0.0050	0.00084	mg/Kg			03/19/13 13:51	1
trans-1,2-Dichloroethene	0.0050	U	0.0050	0.00063	mg/Kg			03/19/13 13:51	1
trans-1,3-Dichloropropene	0.0050	U	0.0050	0.00087	mg/Kg			03/19/13 13:51	1
1,2,3-Trichlorobenzene	0.0050	U	0.0050	0.0016	mg/Kg			03/19/13 13:51	1
1,2,4-Trichlorobenzene	0.0050	U	0.0050	0.00089	mg/Kg			03/19/13 13:51	1
1,1,1-Trichloroethane	0.0050	U	0.0050	0.00059	mg/Kg			03/19/13 13:51	1
1,1,2-Trichloroethane	0.0050	U	0.0050	0.0013	mg/Kg			03/19/13 13:51	1
Trichloroethene	0.0050	U	0.0050	0.0013	mg/Kg			03/19/13 13:51	1
Trichlorofluoromethane	0.0050	U	0.0050	0.0012	mg/Kg			03/19/13 13:51	1
1,2,3-Trichloropropane	0.0050	U	0.0050	0.0024	mg/Kg			03/19/13 13:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0050	U	0.0050	0.0013	mg/Kg			03/19/13 13:51	1
1,2,4-Trimethylbenzene	0.0050	U	0.0050	0.0014	mg/Kg			03/19/13 13:51	1
1,3,5-Trimethylbenzene	0.0050	U	0.0050	0.0017	mg/Kg			03/19/13 13:51	1
Vinyl chloride	0.0050	U	0.0050	0.0015	mg/Kg			03/19/13 13:51	1
Xylenes, Total	0.010	U	0.010	0.0011	mg/Kg			03/19/13 13:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*65 - 130*		*03/19/13 13:51*	*1*
Dibromofluoromethane	*106*		*65 - 130*		*03/19/13 13:51*	*1*
Toluene-d8 (Surr)	*96*		*65 - 130*		*03/19/13 13:51*	*1*

Lab Sample ID: LCS 680-270027/4
Matrix: Solid
Analysis Batch: 270027

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.100	0.0977		mg/Kg		98	54 - 139
Benzene	0.0500	0.0487		mg/Kg		97	76 - 120
Bromobenzene	0.0500	0.0507		mg/Kg		101	77 - 131
Bromochloromethane	0.0500	0.0501		mg/Kg		100	80 - 120
Bromodichloromethane	0.0500	0.0500		mg/Kg		100	72 - 131
Bromoform	0.0500	0.0550		mg/Kg		110	64 - 150
Bromomethane	0.0500	0.0470		mg/Kg		94	10 - 174
2-Butanone	0.100	0.104		mg/Kg		104	66 - 123
Carbon disulfide	0.0500	0.0493		mg/Kg		99	74 - 125
Carbon tetrachloride	0.0500	0.0500		mg/Kg		100	67 - 140
Chlorobenzene	0.0500	0.0504		mg/Kg		101	80 - 120
Chlorodibromomethane	0.0500	0.0531		mg/Kg		106	77 - 132
Chloroethane	0.0500	0.0485		mg/Kg		97	10 - 176
Chloroform	0.0500	0.0499		mg/Kg		100	80 - 121
Chloromethane	0.0500	0.0505		mg/Kg		101	48 - 146
2-Chlorotoluene	0.0500	0.0508		mg/Kg		102	77 - 124
4-Chlorotoluene	0.0500	0.0519		mg/Kg		104	78 - 124
cis-1,2-Dichloroethene	0.0500	0.0497		mg/Kg		99	80 - 120
cis-1,3-Dichloropropene	0.0500	0.0500		mg/Kg		100	74 - 125

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

Lab Sample ID: LCS 680-270027/4
Matrix: Solid
Analysis Batch: 270027

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyclohexane	0.0500	0.0494		mg/Kg		99	70 - 130
1,2-Dibromo-3-Chloropropane	0.0500	0.0543		mg/Kg		109	49 - 152
1,2-Dibromoethane	0.0500	0.0519		mg/Kg		104	72 - 129
Dibromomethane	0.0500	0.0501		mg/Kg		100	73 - 127
1,2-Dichlorobenzene	0.0500	0.0524		mg/Kg		105	75 - 128
1,3-Dichlorobenzene	0.0500	0.0517		mg/Kg		103	76 - 128
1,4-Dichlorobenzene	0.0500	0.0520		mg/Kg		104	76 - 128
Dichlorodifluoromethane	0.0500	0.0494		mg/Kg		99	72 - 134
1,1-Dichloroethane	0.0500	0.0492		mg/Kg		98	80 - 120
1,2-Dichloroethane	0.0500	0.0489		mg/Kg		98	61 - 140
1,1-Dichloroethene	0.0500	0.0487		mg/Kg		97	64 - 138
1,2-Dichloropropane	0.0500	0.0491		mg/Kg		98	73 - 121
2,2-Dichloropropane	0.0500	0.0492		mg/Kg		98	78 - 126
1,3-Dichloropropane	0.0500	0.0501		mg/Kg		100	70 - 126
1,1-Dichloropropene	0.0500	0.0500		mg/Kg		100	74 - 124
Ethylbenzene	0.0500	0.0499		mg/Kg		100	78 - 121
Hexachlorobutadiene	0.0500	0.0512		mg/Kg		102	70 - 146
2-Hexanone	0.100	0.114		mg/Kg		114	60 - 126
Isopropylbenzene	0.0500	0.0507		mg/Kg		101	79 - 124
Methyl acetate	0.0500	0.0501		mg/Kg		100	43 - 135
Methylcyclohexane	0.0500	0.0500		mg/Kg		100	77 - 118
Methylene Chloride	0.0500	0.0488		mg/Kg		98	80 - 120
4-Methyl-2-pentanone	0.100	0.110		mg/Kg		110	59 - 127
Methyl tert-butyl ether	0.100	0.100		mg/Kg		100	80 - 121
Naphthalene	0.0500	0.0586		mg/Kg		117	71 - 138
n-Butylbenzene	0.0500	0.0517		mg/Kg		103	78 - 121
N-Propylbenzene	0.0500	0.0515		mg/Kg		103	78 - 125
p-Isopropyltoluene	0.0500	0.0506		mg/Kg		101	78 - 125
sec-Butylbenzene	0.0500	0.0508		mg/Kg		102	77 - 123
Styrene	0.0500	0.0505		mg/Kg		101	78 - 123
tert-Butylbenzene	0.0500	0.0506		mg/Kg		101	79 - 127
1,1,2,2-Tetrachloroethane	0.0500	0.0569		mg/Kg		114	70 - 123
1,1,1,2-Tetrachloroethane	0.0500	0.0510		mg/Kg		102	80 - 129
Tetrachloroethene	0.0500	0.0488		mg/Kg		98	77 - 130
Toluene	0.0500	0.0502		mg/Kg		100	73 - 122
trans-1,2-Dichloroethene	0.0500	0.0505		mg/Kg		101	79 - 120
trans-1,3-Dichloropropene	0.0500	0.0518		mg/Kg		104	69 - 133
1,2,3-Trichlorobenzene	0.0500	0.0583		mg/Kg		117	74 - 146
1,2,4-Trichlorobenzene	0.0500	0.0526		mg/Kg		105	77 - 142
1,1,1-Trichloroethane	0.0500	0.0505		mg/Kg		101	73 - 132
1,1,2-Trichloroethane	0.0500	0.0513		mg/Kg		103	72 - 124
Trichloroethene	0.0500	0.0505		mg/Kg		101	78 - 125
Trichlorofluoromethane	0.0500	0.0491		mg/Kg		98	60 - 148
1,2,3-Trichloropropane	0.0500	0.0536		mg/Kg		107	67 - 132
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.0480		mg/Kg		96	62 - 141
1,2,4-Trimethylbenzene	0.0500	0.0513		mg/Kg		103	77 - 126
1,3,5-Trimethylbenzene	0.0500	0.0516		mg/Kg		103	77 - 126

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

Lab Sample ID: LCS 680-270027/4
Matrix: Solid
Analysis Batch: 270027

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	0.0500	0.0483		mg/Kg		97	65 - 133
Xylenes, Total	0.150	0.149		mg/Kg		99	79 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*65 - 130*
Dibromofluoromethane	*98*		*65 - 130*
Toluene-d8 (Surr)	*99*		*65 - 130*

Lab Sample ID: LCSD 680-270027/5
Matrix: Solid
Analysis Batch: 270027

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.100	0.0935		mg/Kg		93	54 - 139	4	50
Benzene	0.0500	0.0509		mg/Kg		102	76 - 120	4	50
Bromobenzene	0.0500	0.0495		mg/Kg		99	77 - 131	3	50
Bromochloromethane	0.0500	0.0503		mg/Kg		101	80 - 120	0	50
Bromodichloromethane	0.0500	0.0519		mg/Kg		104	72 - 131	4	50
Bromoform	0.0500	0.0480		mg/Kg		96	64 - 150	14	50
Bromomethane	0.0500	0.0491		mg/Kg		98	10 - 174	4	50
2-Butanone	0.100	0.0916		mg/Kg		92	66 - 123	13	50
Carbon disulfide	0.0500	0.0497		mg/Kg		99	74 - 125	1	50
Carbon tetrachloride	0.0500	0.0511		mg/Kg		102	67 - 140	2	50
Chlorobenzene	0.0500	0.0500		mg/Kg		100	80 - 120	1	50
Chlorodibromomethane	0.0500	0.0500		mg/Kg		100	77 - 132	6	50
Chloroethane	0.0500	0.0497		mg/Kg		99	10 - 176	2	50
Chloroform	0.0500	0.0503		mg/Kg		101	80 - 121	1	50
Chloromethane	0.0500	0.0513		mg/Kg		103	48 - 146	2	50
2-Chlorotoluene	0.0500	0.0492		mg/Kg		98	77 - 124	3	50
4-Chlorotoluene	0.0500	0.0483		mg/Kg		97	78 - 124	7	50
cis-1,2-Dichloroethene	0.0500	0.0488		mg/Kg		98	80 - 120	2	50
cis-1,3-Dichloropropene	0.0500	0.0518		mg/Kg		104	74 - 125	4	50
Cyclohexane	0.0500	0.0502		mg/Kg		100	70 - 130	2	50
1,2-Dibromo-3-Chloropropane	0.0500	0.0488		mg/Kg		98	49 - 152	11	50
1,2-Dibromoethane	0.0500	0.0502		mg/Kg		100	72 - 129	3	50
Dibromomethane	0.0500	0.0510		mg/Kg		102	73 - 127	2	50
1,2-Dichlorobenzene	0.0500	0.0488		mg/Kg		98	75 - 128	7	50
1,3-Dichlorobenzene	0.0500	0.0490		mg/Kg		98	76 - 128	6	50
1,4-Dichlorobenzene	0.0500	0.0498		mg/Kg		100	76 - 128	4	50
Dichlorodifluoromethane	0.0500	0.0498		mg/Kg		100	72 - 134	1	50
1,1-Dichloroethane	0.0500	0.0504		mg/Kg		101	80 - 120	2	50
1,2-Dichloroethane	0.0500	0.0518		mg/Kg		104	61 - 140	6	50
1,1-Dichloroethene	0.0500	0.0454		mg/Kg		91	64 - 138	7	50
1,2-Dichloropropane	0.0500	0.0507		mg/Kg		101	73 - 121	3	50
2,2-Dichloropropane	0.0500	0.0499		mg/Kg		100	78 - 126	1	50
1,3-Dichloropropane	0.0500	0.0506		mg/Kg		101	70 - 126	1	50
1,1-Dichloropropene	0.0500	0.0505		mg/Kg		101	74 - 124	1	50
Ethylbenzene	0.0500	0.0493		mg/Kg		99	78 - 121	1	50

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

Lab Sample ID: LCSD 680-270027/5
Matrix: Solid
Analysis Batch: 270027

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobutadiene			0.0500	0.0479		mg/Kg		96	70 - 146	7	50
2-Hexanone			0.100	0.0963		mg/Kg		96	60 - 126	17	50
Isopropylbenzene			0.0500	0.0499		mg/Kg		100	79 - 124	1	50
Methyl acetate			0.0500	0.0472		mg/Kg		94	43 - 135	6	50
Methylcyclohexane			0.0500	0.0495		mg/Kg		99	77 - 118	1	50
Methylene Chloride			0.0500	0.0479		mg/Kg		96	80 - 120	2	50
4-Methyl-2-pentanone			0.100	0.0980		mg/Kg		98	59 - 127	11	50
Methyl tert-butyl ether			0.100	0.0976		mg/Kg		98	80 - 121	3	50
Naphthalene			0.0500	0.0531		mg/Kg		106	71 - 138	10	50
n-Butylbenzene			0.0500	0.0505		mg/Kg		101	78 - 121	2	50
N-Propylbenzene			0.0500	0.0481		mg/Kg		96	78 - 125	7	50
p-Isopropyltoluene			0.0500	0.0494		mg/Kg		99	78 - 125	2	50
sec-Butylbenzene			0.0500	0.0495		mg/Kg		99	77 - 123	3	50
Styrene			0.0500	0.0495		mg/Kg		99	78 - 123	2	50
tert-Butylbenzene			0.0500	0.0488		mg/Kg		98	79 - 127	4	50
1,1,2,2-Tetrachloroethane			0.0500	0.0475		mg/Kg		95	70 - 123	18	50
1,1,1,2-Tetrachloroethane			0.0500	0.0488		mg/Kg		98	80 - 129	4	50
Tetrachloroethene			0.0500	0.0478		mg/Kg		96	77 - 130	2	50
Toluene			0.0500	0.0506		mg/Kg		101	73 - 122	1	50
trans-1,2-Dichloroethene			0.0500	0.0507		mg/Kg		101	79 - 120	0	50
trans-1,3-Dichloropropene			0.0500	0.0523		mg/Kg		105	69 - 133	1	50
1,2,3-Trichlorobenzene			0.0500	0.0543		mg/Kg		109	74 - 146	7	50
1,2,4-Trichlorobenzene			0.0500	0.0491		mg/Kg		98	77 - 142	7	50
1,1,1-Trichloroethane			0.0500	0.0512		mg/Kg		102	73 - 132	1	50
1,1,2-Trichloroethane			0.0500	0.0508		mg/Kg		102	72 - 124	1	50
Trichloroethene			0.0500	0.0510		mg/Kg		102	78 - 125	1	50
Trichlorofluoromethane			0.0500	0.0490		mg/Kg		98	60 - 148	0	50
1,2,3-Trichloropropane			0.0500	0.0461		mg/Kg		92	67 - 132	15	50
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0500	0.0425		mg/Kg		85	62 - 141	12	50
1,2,4-Trimethylbenzene			0.0500	0.0494		mg/Kg		99	77 - 126	4	50
1,3,5-Trimethylbenzene			0.0500	0.0505		mg/Kg		101	77 - 126	2	50
Vinyl chloride			0.0500	0.0500		mg/Kg		100	65 - 133	3	50
Xylenes, Total			0.150	0.148		mg/Kg		98	79 - 121	1	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*65 - 130*
Dibromofluoromethane	*100*		*65 - 130*
Toluene-d8 (Surr)	*101*		*65 - 130*

Lab Sample ID: MB 680-270151/7
Matrix: Solid
Analysis Batch: 270151

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.050	U	0.050	0.011	mg/Kg			03/20/13 18:04	1
Benzene	0.0050	U	0.0050	0.00073	mg/Kg			03/20/13 18:04	1
Bromobenzene	0.0050	U	0.0050	0.0017	mg/Kg			03/20/13 18:04	1

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

Lab Sample ID: MB 680-270151/7
Matrix: Solid
Analysis Batch: 270151

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	0.0050	U	0.0050	0.0033	mg/Kg			03/20/13 18:04	1
Bromodichloromethane	0.0050	U	0.0050	0.00097	mg/Kg			03/20/13 18:04	1
Bromoform	0.0050	U	0.0050	0.0015	mg/Kg			03/20/13 18:04	1
Bromomethane	0.0050	U	0.0050	0.0015	mg/Kg			03/20/13 18:04	1
2-Butanone	0.025	U	0.025	0.0024	mg/Kg			03/20/13 18:04	1
Carbon disulfide	0.0050	U	0.0050	0.0011	mg/Kg			03/20/13 18:04	1
Carbon tetrachloride	0.0050	U	0.0050	0.00083	mg/Kg			03/20/13 18:04	1
Chlorobenzene	0.0050	U	0.0050	0.00096	mg/Kg			03/20/13 18:04	1
Chlorodibromomethane	0.0050	U	0.0050	0.0017	mg/Kg			03/20/13 18:04	1
Chloroethane	0.0050	U	0.0050	0.0027	mg/Kg			03/20/13 18:04	1
Chloroform	0.0050	U	0.0050	0.0011	mg/Kg			03/20/13 18:04	1
Chloromethane	0.0050	U	0.0050	0.0010	mg/Kg			03/20/13 18:04	1
2-Chlorotoluene	0.0050	U	0.0050	0.0020	mg/Kg			03/20/13 18:04	1
4-Chlorotoluene	0.0050	U	0.0050	0.0017	mg/Kg			03/20/13 18:04	1
cis-1,2-Dichloroethene	0.0050	U	0.0050	0.0014	mg/Kg			03/20/13 18:04	1
cis-1,3-Dichloropropene	0.0050	U	0.0050	0.00083	mg/Kg			03/20/13 18:04	1
Cyclohexane	0.010	U	0.010	0.0013	mg/Kg			03/20/13 18:04	1
1,2-Dibromo-3-Chloropropane	0.010	U	0.010	0.0044	mg/Kg			03/20/13 18:04	1
1,2-Dibromoethane	0.0050	U	0.0050	0.0015	mg/Kg			03/20/13 18:04	1
Dibromomethane	0.0050	U	0.0050	0.0017	mg/Kg			03/20/13 18:04	1
1,2-Dichlorobenzene	0.0050	U	0.0050	0.0013	mg/Kg			03/20/13 18:04	1
1,3-Dichlorobenzene	0.0050	U	0.0050	0.0016	mg/Kg			03/20/13 18:04	1
1,4-Dichlorobenzene	0.0050	U	0.0050	0.00074	mg/Kg			03/20/13 18:04	1
Dichlorodifluoromethane	0.0050	U	0.0050	0.00094	mg/Kg			03/20/13 18:04	1
1,1-Dichloroethane	0.0050	U	0.0050	0.0011	mg/Kg			03/20/13 18:04	1
1,2-Dichloroethane	0.0050	U	0.0050	0.0011	mg/Kg			03/20/13 18:04	1
1,1-Dichloroethene	0.0050	U	0.0050	0.0015	mg/Kg			03/20/13 18:04	1
1,2-Dichloropropane	0.0050	U	0.0050	0.00086	mg/Kg			03/20/13 18:04	1
2,2-Dichloropropane	0.0050	U	0.0050	0.0011	mg/Kg			03/20/13 18:04	1
1,3-Dichloropropane	0.0050	U	0.0050	0.0018	mg/Kg			03/20/13 18:04	1
1,1-Dichloropropene	0.0050	U	0.0050	0.00095	mg/Kg			03/20/13 18:04	1
Ethylbenzene	0.0050	U	0.0050	0.0013	mg/Kg			03/20/13 18:04	1
Hexachlorobutadiene	0.0050	U	0.0050	0.0031	mg/Kg			03/20/13 18:04	1
2-Hexanone	0.025	U	0.025	0.0033	mg/Kg			03/20/13 18:04	1
Isopropylbenzene	0.0050	U	0.0050	0.0019	mg/Kg			03/20/13 18:04	1
Methyl acetate	0.010	U	0.010	0.0050	mg/Kg			03/20/13 18:04	1
Methylcyclohexane	0.010	U	0.010	0.00086	mg/Kg			03/20/13 18:04	1
Methylene Chloride	0.0050	U	0.0050	0.00098	mg/Kg			03/20/13 18:04	1
4-Methyl-2-pentanone	0.025	U	0.025	0.0042	mg/Kg			03/20/13 18:04	1
Methyl tert-butyl ether	0.010	U	0.010	0.0010	mg/Kg			03/20/13 18:04	1
Naphthalene	0.0050	U	0.0050	0.0012	mg/Kg			03/20/13 18:04	1
n-Butylbenzene	0.0050	U	0.0050	0.0024	mg/Kg			03/20/13 18:04	1
N-Propylbenzene	0.0050	U	0.0050	0.0027	mg/Kg			03/20/13 18:04	1
p-Isopropyltoluene	0.0050	U	0.0050	0.0022	mg/Kg			03/20/13 18:04	1
sec-Butylbenzene	0.0050	U	0.0050	0.0021	mg/Kg			03/20/13 18:04	1
Styrene	0.0050	U	0.0050	0.00093	mg/Kg			03/20/13 18:04	1
tert-Butylbenzene	0.0050	U	0.0050	0.0018	mg/Kg			03/20/13 18:04	1
1,1,2,2-Tetrachloroethane	0.0050	U	0.0050	0.0016	mg/Kg			03/20/13 18:04	1

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

Lab Sample ID: MB 680-270151/7
Matrix: Solid
Analysis Batch: 270151

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.0050	U	0.0050	0.0024	mg/Kg			03/20/13 18:04	1
Tetrachloroethene	0.0050	U	0.0050	0.0019	mg/Kg			03/20/13 18:04	1
Toluene	0.0050	U	0.0050	0.00084	mg/Kg			03/20/13 18:04	1
trans-1,2-Dichloroethene	0.0050	U	0.0050	0.00063	mg/Kg			03/20/13 18:04	1
trans-1,3-Dichloropropene	0.0050	U	0.0050	0.00087	mg/Kg			03/20/13 18:04	1
1,2,3-Trichlorobenzene	0.0050	U	0.0050	0.0016	mg/Kg			03/20/13 18:04	1
1,2,4-Trichlorobenzene	0.0050	U	0.0050	0.00089	mg/Kg			03/20/13 18:04	1
1,1,1-Trichloroethane	0.0050	U	0.0050	0.00059	mg/Kg			03/20/13 18:04	1
1,1,2-Trichloroethane	0.0050	U	0.0050	0.0013	mg/Kg			03/20/13 18:04	1
Trichloroethene	0.0050	U	0.0050	0.0013	mg/Kg			03/20/13 18:04	1
Trichlorofluoromethane	0.0050	U	0.0050	0.0012	mg/Kg			03/20/13 18:04	1
1,2,3-Trichloropropane	0.0050	U	0.0050	0.0024	mg/Kg			03/20/13 18:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0050	U	0.0050	0.0013	mg/Kg			03/20/13 18:04	1
1,2,4-Trimethylbenzene	0.0050	U	0.0050	0.0014	mg/Kg			03/20/13 18:04	1
1,3,5-Trimethylbenzene	0.0050	U	0.0050	0.0017	mg/Kg			03/20/13 18:04	1
Vinyl chloride	0.0050	U	0.0050	0.0015	mg/Kg			03/20/13 18:04	1
Xylenes, Total	0.010	U	0.010	0.0011	mg/Kg			03/20/13 18:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*65 - 130*		*03/20/13 18:04*	*1*
Dibromofluoromethane	*90*		*65 - 130*		*03/20/13 18:04*	*1*
Toluene-d8 (Surr)	*88*		*65 - 130*		*03/20/13 18:04*	*1*

Lab Sample ID: LCS 680-270151/4
Matrix: Solid
Analysis Batch: 270151

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.100	0.155	*	mg/Kg		155	54 - 139
Benzene	0.0500	0.0505		mg/Kg		101	76 - 120
Bromobenzene	0.0500	0.0489		mg/Kg		98	77 - 131
Bromochloromethane	0.0500	0.0481		mg/Kg		96	80 - 120
Bromodichloromethane	0.0500	0.0563		mg/Kg		113	72 - 131
Bromoform	0.0500	0.0552		mg/Kg		110	64 - 150
Bromomethane	0.0500	0.0439		mg/Kg		88	10 - 174
2-Butanone	0.100	0.111		mg/Kg		111	66 - 123
Carbon disulfide	0.0500	0.0410		mg/Kg		82	74 - 125
Carbon tetrachloride	0.0500	0.0480		mg/Kg		96	67 - 140
Chlorobenzene	0.0500	0.0482		mg/Kg		96	80 - 120
Chlorodibromomethane	0.0500	0.0560		mg/Kg		112	77 - 132
Chloroethane	0.0500	0.0427		mg/Kg		85	10 - 176
Chloroform	0.0500	0.0433		mg/Kg		87	80 - 121
Chloromethane	0.0500	0.0415		mg/Kg		83	48 - 146
2-Chlorotoluene	0.0500	0.0461		mg/Kg		92	77 - 124
4-Chlorotoluene	0.0500	0.0460		mg/Kg		92	78 - 124
cis-1,2-Dichloroethene	0.0500	0.0436		mg/Kg		87	80 - 120
cis-1,3-Dichloropropene	0.0500	0.0564		mg/Kg		113	74 - 125
Cyclohexane	0.0500	0.0481		mg/Kg		96	70 - 130

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

Lab Sample ID: LCS 680-270151/4
Matrix: Solid
Analysis Batch: 270151

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.0500	0.0588		mg/Kg		118	49 - 152
1,2-Dibromoethane	0.0500	0.0605		mg/Kg		121	72 - 129
Dibromomethane	0.0500	0.0585		mg/Kg		117	73 - 127
1,2-Dichlorobenzene	0.0500	0.0481		mg/Kg		96	75 - 128
1,3-Dichlorobenzene	0.0500	0.0462		mg/Kg		92	76 - 128
1,4-Dichlorobenzene	0.0500	0.0469		mg/Kg		94	76 - 128
Dichlorodifluoromethane	0.0500	0.0393		mg/Kg		79	72 - 134
1,1-Dichloroethane	0.0500	0.0433		mg/Kg		87	80 - 120
1,2-Dichloroethane	0.0500	0.0570		mg/Kg		114	61 - 140
1,1-Dichloroethene	0.0500	0.0417		mg/Kg		83	64 - 138
1,2-Dichloropropane	0.0500	0.0532		mg/Kg		106	73 - 121
2,2-Dichloropropane	0.0500	0.0405		mg/Kg		81	78 - 126
1,3-Dichloropropane	0.0500	0.0580		mg/Kg		116	70 - 126
1,1-Dichloropropene	0.0500	0.0475		mg/Kg		95	74 - 124
Ethylbenzene	0.0500	0.0463		mg/Kg		93	78 - 121
Hexachlorobutadiene	0.0500	0.0445		mg/Kg		89	70 - 146
2-Hexanone	0.100	0.130	*	mg/Kg		130	60 - 126
Isopropylbenzene	0.0500	0.0449		mg/Kg		90	79 - 124
Methyl acetate	0.0500	0.0519		mg/Kg		104	43 - 135
Methylcyclohexane	0.0500	0.0476		mg/Kg		95	77 - 118
Methylene Chloride	0.0500	0.0455		mg/Kg		91	80 - 120
4-Methyl-2-pentanone	0.100	0.122		mg/Kg		122	59 - 127
Methyl tert-butyl ether	0.100	0.104		mg/Kg		104	80 - 121
Naphthalene	0.0500	0.0599		mg/Kg		120	71 - 138
n-Butylbenzene	0.0500	0.0442		mg/Kg		88	78 - 121
N-Propylbenzene	0.0500	0.0448		mg/Kg		90	78 - 125
p-Isopropyltoluene	0.0500	0.0437		mg/Kg		87	78 - 125
sec-Butylbenzene	0.0500	0.0438		mg/Kg		88	77 - 123
Styrene	0.0500	0.0483		mg/Kg		97	78 - 123
tert-Butylbenzene	0.0500	0.0432		mg/Kg		86	79 - 127
1,1,2,2-Tetrachloroethane	0.0500	0.0513		mg/Kg		103	70 - 123
1,1,1,2-Tetrachloroethane	0.0500	0.0502		mg/Kg		100	80 - 129
Tetrachloroethene	0.0500	0.0442		mg/Kg		88	77 - 130
Toluene	0.0500	0.0501		mg/Kg		100	73 - 122
trans-1,2-Dichloroethene	0.0500	0.0418		mg/Kg		84	79 - 120
trans-1,3-Dichloropropene	0.0500	0.0577		mg/Kg		115	69 - 133
1,2,3-Trichlorobenzene	0.0500	0.0572		mg/Kg		114	74 - 146
1,2,4-Trichlorobenzene	0.0500	0.0491		mg/Kg		98	77 - 142
1,1,1-Trichloroethane	0.0500	0.0484		mg/Kg		97	73 - 132
1,1,2-Trichloroethane	0.0500	0.0584		mg/Kg		117	72 - 124
Trichloroethene	0.0500	0.0489		mg/Kg		98	78 - 125
Trichlorofluoromethane	0.0500	0.0402		mg/Kg		80	60 - 148
1,2,3-Trichloropropane	0.0500	0.0543		mg/Kg		109	67 - 132
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.0408		mg/Kg		82	62 - 141
1,2,4-Trimethylbenzene	0.0500	0.0457		mg/Kg		91	77 - 126
1,3,5-Trimethylbenzene	0.0500	0.0458		mg/Kg		92	77 - 126
Vinyl chloride	0.0500	0.0411		mg/Kg		82	65 - 133

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

Lab Sample ID: LCS 680-270151/4
Matrix: Solid
Analysis Batch: 270151

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Xylenes, Total			0.150	0.140		mg/Kg		93	79 - 121		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*65 - 130*
Dibromofluoromethane	*92*		*65 - 130*
Toluene-d8 (Surr)	*100*		*65 - 130*

Lab Sample ID: LCSD 680-270151/5
Matrix: Solid
Analysis Batch: 270151

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.100	0.148	*	mg/Kg		148	54 - 139	4	50
Benzene			0.0500	0.0542		mg/Kg		108	76 - 120	7	50
Bromobenzene			0.0500	0.0517		mg/Kg		103	77 - 131	6	50
Bromochloromethane			0.0500	0.0515		mg/Kg		103	80 - 120	7	50
Bromodichloromethane			0.0500	0.0587		mg/Kg		117	72 - 131	4	50
Bromoform			0.0500	0.0548		mg/Kg		110	64 - 150	1	50
Bromomethane			0.0500	0.0499		mg/Kg		100	10 - 174	13	50
2-Butanone			0.100	0.106		mg/Kg		106	66 - 123	5	50
Carbon disulfide			0.0500	0.0482		mg/Kg		96	74 - 125	16	50
Carbon tetrachloride			0.0500	0.0528		mg/Kg		106	67 - 140	10	50
Chlorobenzene			0.0500	0.0524		mg/Kg		105	80 - 120	8	50
Chlorodibromomethane			0.0500	0.0554		mg/Kg		111	77 - 132	1	50
Chloroethane			0.0500	0.0472		mg/Kg		94	10 - 176	10	50
Chloroform			0.0500	0.0482		mg/Kg		96	80 - 121	11	50
Chloromethane			0.0500	0.0475		mg/Kg		95	48 - 146	14	50
2-Chlorotoluene			0.0500	0.0491		mg/Kg		98	77 - 124	6	50
4-Chlorotoluene			0.0500	0.0488		mg/Kg		98	78 - 124	6	50
cis-1,2-Dichloroethene			0.0500	0.0479		mg/Kg		96	80 - 120	9	50
cis-1,3-Dichloropropene			0.0500	0.0575		mg/Kg		115	74 - 125	2	50
Cyclohexane			0.0500	0.0521		mg/Kg		104	70 - 130	8	50
1,2-Dibromo-3-Chloropropane			0.0500	0.0554		mg/Kg		111	49 - 152	6	50
1,2-Dibromoethane			0.0500	0.0580		mg/Kg		116	72 - 129	4	50
Dibromomethane			0.0500	0.0584		mg/Kg		117	73 - 127	0	50
1,2-Dichlorobenzene			0.0500	0.0506		mg/Kg		101	75 - 128	5	50
1,3-Dichlorobenzene			0.0500	0.0496		mg/Kg		99	76 - 128	7	50
1,4-Dichlorobenzene			0.0500	0.0488		mg/Kg		98	76 - 128	4	50
Dichlorodifluoromethane			0.0500	0.0449		mg/Kg		90	72 - 134	13	50
1,1-Dichloroethane			0.0500	0.0485		mg/Kg		97	80 - 120	11	50
1,2-Dichloroethane			0.0500	0.0577		mg/Kg		115	61 - 140	1	50
1,1-Dichloroethene			0.0500	0.0416		mg/Kg		83	64 - 138	0	50
1,2-Dichloropropane			0.0500	0.0563		mg/Kg		113	73 - 121	6	50
2,2-Dichloropropane			0.0500	0.0469		mg/Kg		94	78 - 126	15	50
1,3-Dichloropropane			0.0500	0.0587		mg/Kg		117	70 - 126	1	50
1,1-Dichloropropene			0.0500	0.0520		mg/Kg		104	74 - 124	9	50
Ethylbenzene			0.0500	0.0512		mg/Kg		102	78 - 121	10	50
Hexachlorobutadiene			0.0500	0.0474		mg/Kg		95	70 - 146	6	50

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

Lab Sample ID: LCSD 680-270151/5
Matrix: Solid
Analysis Batch: 270151

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Hexanone	0.100	0.121		mg/Kg		121	60 - 126	8	50
Isopropylbenzene	0.0500	0.0491		mg/Kg		98	79 - 124	9	50
Methyl acetate	0.0500	0.0506		mg/Kg		101	43 - 135	3	50
Methylcyclohexane	0.0500	0.0517		mg/Kg		103	77 - 118	8	50
Methylene Chloride	0.0500	0.0494		mg/Kg		99	80 - 120	8	50
4-Methyl-2-pentanone	0.100	0.113		mg/Kg		113	59 - 127	8	50
Methyl tert-butyl ether	0.100	0.106		mg/Kg		106	80 - 121	2	50
Naphthalene	0.0500	0.0567		mg/Kg		113	71 - 138	6	50
n-Butylbenzene	0.0500	0.0472		mg/Kg		94	78 - 121	7	50
N-Propylbenzene	0.0500	0.0499		mg/Kg		100	78 - 125	11	50
p-Isopropyltoluene	0.0500	0.0473		mg/Kg		95	78 - 125	8	50
sec-Butylbenzene	0.0500	0.0475		mg/Kg		95	77 - 123	8	50
Styrene	0.0500	0.0527		mg/Kg		105	78 - 123	9	50
tert-Butylbenzene	0.0500	0.0462		mg/Kg		92	79 - 127	7	50
1,1,2,2-Tetrachloroethane	0.0500	0.0495		mg/Kg		99	70 - 123	4	50
1,1,1,2-Tetrachloroethane	0.0500	0.0531		mg/Kg		106	80 - 129	6	50
Tetrachloroethene	0.0500	0.0492		mg/Kg		98	77 - 130	11	50
Toluene	0.0500	0.0540		mg/Kg		108	73 - 122	8	50
trans-1,2-Dichloroethene	0.0500	0.0476		mg/Kg		95	79 - 120	13	50
trans-1,3-Dichloropropene	0.0500	0.0572		mg/Kg		114	69 - 133	1	50
1,2,3-Trichlorobenzene	0.0500	0.0577		mg/Kg		115	74 - 146	1	50
1,2,4-Trichlorobenzene	0.0500	0.0510		mg/Kg		102	77 - 142	4	50
1,1,1-Trichloroethane	0.0500	0.0526		mg/Kg		105	73 - 132	8	50
1,1,2-Trichloroethane	0.0500	0.0580		mg/Kg		116	72 - 124	1	50
Trichloroethene	0.0500	0.0529		mg/Kg		106	78 - 125	8	50
Trichlorofluoromethane	0.0500	0.0467		mg/Kg		93	60 - 148	15	50
1,2,3-Trichloropropane	0.0500	0.0499		mg/Kg		100	67 - 132	8	50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.0413		mg/Kg		83	62 - 141	1	50
1,2,4-Trimethylbenzene	0.0500	0.0494		mg/Kg		99	77 - 126	8	50
1,3,5-Trimethylbenzene	0.0500	0.0489		mg/Kg		98	77 - 126	7	50
Vinyl chloride	0.0500	0.0469		mg/Kg		94	65 - 133	13	50
Xylenes, Total	0.150	0.152		mg/Kg		102	79 - 121	9	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*65 - 130*
Dibromofluoromethane	*101*		*65 - 130*
Toluene-d8 (Surr)	*107*		*65 - 130*

Lab Sample ID: MB 680-270405/6
Matrix: Solid
Analysis Batch: 270405

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.0	U	2.0	0.44	mg/Kg			03/22/13 10:53	40
Benzene	0.20	U	0.20	0.029	mg/Kg			03/22/13 10:53	40
Bromobenzene	0.20	U	0.20	0.068	mg/Kg			03/22/13 10:53	40
Bromochloromethane	0.20	U	0.20	0.13	mg/Kg			03/22/13 10:53	40

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

Lab Sample ID: MB 680-270405/6
Matrix: Solid
Analysis Batch: 270405

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.20	U	0.20	0.039	mg/Kg			03/22/13 10:53	40
Bromoform	0.20	U	0.20	0.060	mg/Kg			03/22/13 10:53	40
Bromomethane	0.20	U	0.20	0.060	mg/Kg			03/22/13 10:53	40
2-Butanone	1.0	U	1.0	0.096	mg/Kg			03/22/13 10:53	40
Carbon disulfide	0.20	U	0.20	0.044	mg/Kg			03/22/13 10:53	40
Carbon tetrachloride	0.20	U	0.20	0.033	mg/Kg			03/22/13 10:53	40
Chlorobenzene	0.20	U	0.20	0.038	mg/Kg			03/22/13 10:53	40
Chlorodibromomethane	0.20	U	0.20	0.068	mg/Kg			03/22/13 10:53	40
Chloroethane	0.20	U	0.20	0.11	mg/Kg			03/22/13 10:53	40
Chloroform	0.20	U	0.20	0.044	mg/Kg			03/22/13 10:53	40
Chloromethane	0.20	U	0.20	0.040	mg/Kg			03/22/13 10:53	40
2-Chlorotoluene	0.20	U	0.20	0.080	mg/Kg			03/22/13 10:53	40
4-Chlorotoluene	0.20	U	0.20	0.068	mg/Kg			03/22/13 10:53	40
cis-1,2-Dichloroethene	0.20	U	0.20	0.056	mg/Kg			03/22/13 10:53	40
cis-1,3-Dichloropropene	0.20	U	0.20	0.033	mg/Kg			03/22/13 10:53	40
Cyclohexane	0.40	U	0.40	0.052	mg/Kg			03/22/13 10:53	40
1,2-Dibromo-3-Chloropropane	0.40	U	0.40	0.18	mg/Kg			03/22/13 10:53	40
1,2-Dibromoethane	0.20	U	0.20	0.060	mg/Kg			03/22/13 10:53	40
Dibromomethane	0.20	U	0.20	0.068	mg/Kg			03/22/13 10:53	40
1,2-Dichlorobenzene	0.20	U	0.20	0.052	mg/Kg			03/22/13 10:53	40
1,3-Dichlorobenzene	0.20	U	0.20	0.064	mg/Kg			03/22/13 10:53	40
1,4-Dichlorobenzene	0.20	U	0.20	0.030	mg/Kg			03/22/13 10:53	40
Dichlorodifluoromethane	0.20	U	0.20	0.038	mg/Kg			03/22/13 10:53	40
1,1-Dichloroethane	0.20	U	0.20	0.044	mg/Kg			03/22/13 10:53	40
1,2-Dichloroethane	0.20	U	0.20	0.044	mg/Kg			03/22/13 10:53	40
1,1-Dichloroethene	0.20	U	0.20	0.060	mg/Kg			03/22/13 10:53	40
1,2-Dichloropropane	0.20	U	0.20	0.034	mg/Kg			03/22/13 10:53	40
2,2-Dichloropropane	0.20	U	0.20	0.044	mg/Kg			03/22/13 10:53	40
1,3-Dichloropropane	0.20	U	0.20	0.072	mg/Kg			03/22/13 10:53	40
1,1-Dichloropropene	0.20	U	0.20	0.038	mg/Kg			03/22/13 10:53	40
Ethylbenzene	0.20	U	0.20	0.052	mg/Kg			03/22/13 10:53	40
Hexachlorobutadiene	0.20	U	0.20	0.12	mg/Kg			03/22/13 10:53	40
2-Hexanone	1.0	U	1.0	0.13	mg/Kg			03/22/13 10:53	40
Isopropylbenzene	0.20	U	0.20	0.076	mg/Kg			03/22/13 10:53	40
Methyl acetate	0.40	U	0.40	0.20	mg/Kg			03/22/13 10:53	40
Methylcyclohexane	0.40	U	0.40	0.034	mg/Kg			03/22/13 10:53	40
Methylene Chloride	0.20	U	0.20	0.039	mg/Kg			03/22/13 10:53	40
4-Methyl-2-pentanone	1.0	U	1.0	0.17	mg/Kg			03/22/13 10:53	40
Methyl tert-butyl ether	0.40	U	0.40	0.040	mg/Kg			03/22/13 10:53	40
Naphthalene	0.20	U	0.20	0.048	mg/Kg			03/22/13 10:53	40
n-Butylbenzene	0.20	U	0.20	0.096	mg/Kg			03/22/13 10:53	40
N-Propylbenzene	0.20	U	0.20	0.11	mg/Kg			03/22/13 10:53	40
p-Isopropyltoluene	0.20	U	0.20	0.088	mg/Kg			03/22/13 10:53	40
sec-Butylbenzene	0.20	U	0.20	0.084	mg/Kg			03/22/13 10:53	40
Styrene	0.20	U	0.20	0.037	mg/Kg			03/22/13 10:53	40
tert-Butylbenzene	0.20	U	0.20	0.072	mg/Kg			03/22/13 10:53	40
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.064	mg/Kg			03/22/13 10:53	40
1,1,1,2-Tetrachloroethane	0.20	U	0.20	0.096	mg/Kg			03/22/13 10:53	40

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

Lab Sample ID: MB 680-270405/6
Matrix: Solid
Analysis Batch: 270405

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.20	U	0.20	0.076	mg/Kg			03/22/13 10:53	40
Toluene	0.20	U	0.20	0.034	mg/Kg			03/22/13 10:53	40
trans-1,2-Dichloroethene	0.20	U	0.20	0.025	mg/Kg			03/22/13 10:53	40
trans-1,3-Dichloropropene	0.20	U	0.20	0.035	mg/Kg			03/22/13 10:53	40
1,2,3-Trichlorobenzene	0.20	U	0.20	0.064	mg/Kg			03/22/13 10:53	40
1,2,4-Trichlorobenzene	0.20	U	0.20	0.036	mg/Kg			03/22/13 10:53	40
1,1,1-Trichloroethane	0.20	U	0.20	0.024	mg/Kg			03/22/13 10:53	40
1,1,2-Trichloroethane	0.20	U	0.20	0.052	mg/Kg			03/22/13 10:53	40
Trichloroethene	0.20	U	0.20	0.052	mg/Kg			03/22/13 10:53	40
Trichlorofluoromethane	0.20	U	0.20	0.048	mg/Kg			03/22/13 10:53	40
1,2,3-Trichloropropane	0.20	U	0.20	0.096	mg/Kg			03/22/13 10:53	40
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	0.052	mg/Kg			03/22/13 10:53	40
1,2,4-Trimethylbenzene	0.20	U	0.20	0.056	mg/Kg			03/22/13 10:53	40
1,3,5-Trimethylbenzene	0.20	U	0.20	0.068	mg/Kg			03/22/13 10:53	40
Vinyl chloride	0.20	U	0.20	0.060	mg/Kg			03/22/13 10:53	40
Xylenes, Total	0.40	U	0.40	0.044	mg/Kg			03/22/13 10:53	40

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*65 - 130*		*03/22/13 10:53*	*40*
Dibromofluoromethane	*103*		*65 - 130*		*03/22/13 10:53*	*40*
Toluene-d8 (Surr)	*106*		*65 - 130*		*03/22/13 10:53*	*40*

Lab Sample ID: LCS 680-270405/4
Matrix: Solid
Analysis Batch: 270405

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	5.00	7.21	*	mg/Kg		144	54 - 139
Benzene	2.50	2.27		mg/Kg		91	76 - 120
Bromobenzene	2.50	2.22		mg/Kg		89	77 - 131
Bromochloromethane	2.50	2.37		mg/Kg		95	80 - 120
Bromodichloromethane	2.50	2.32		mg/Kg		93	72 - 131
Bromoform	2.50	2.06		mg/Kg		82	64 - 150
Bromomethane	2.50	1.26		mg/Kg		51	10 - 174
2-Butanone	5.00	4.65		mg/Kg		93	66 - 123
Carbon disulfide	2.50	2.23		mg/Kg		89	74 - 125
Carbon tetrachloride	2.50	2.17		mg/Kg		87	67 - 140
Chlorobenzene	2.50	2.31		mg/Kg		93	80 - 120
Chlorodibromomethane	2.50	2.33		mg/Kg		93	77 - 132
Chloroethane	2.50	1.02		mg/Kg		41	10 - 176
Chloroform	2.50	2.26		mg/Kg		91	80 - 121
Chloromethane	2.50	2.45		mg/Kg		98	48 - 146
2-Chlorotoluene	2.50	2.15		mg/Kg		86	77 - 124
4-Chlorotoluene	2.50	2.10		mg/Kg		84	78 - 124
cis-1,2-Dichloroethene	2.50	2.31		mg/Kg		93	80 - 120
cis-1,3-Dichloropropene	2.50	2.33		mg/Kg		93	74 - 125
Cyclohexane	2.50	2.16		mg/Kg		86	70 - 130
1,2-Dibromo-3-Chloropropane	2.50	1.90		mg/Kg		76	49 - 152

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

Lab Sample ID: LCS 680-270405/4
Matrix: Solid
Analysis Batch: 270405

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane	2.50	2.29		mg/Kg		91	72 - 129
Dibromomethane	2.50	2.29		mg/Kg		92	73 - 127
1,2-Dichlorobenzene	2.50	2.08		mg/Kg		83	75 - 128
1,3-Dichlorobenzene	2.50	2.11		mg/Kg		84	76 - 128
1,4-Dichlorobenzene	2.50	2.06		mg/Kg		82	76 - 128
Dichlorodifluoromethane	2.50	2.09		mg/Kg		84	72 - 134
1,1-Dichloroethane	2.50	2.29		mg/Kg		91	80 - 120
1,2-Dichloroethane	2.50	2.29		mg/Kg		92	61 - 140
1,1-Dichloroethene	2.50	2.10		mg/Kg		84	64 - 138
1,2-Dichloropropane	2.50	2.33		mg/Kg		93	73 - 121
2,2-Dichloropropane	2.50	2.19		mg/Kg		88	78 - 126
1,3-Dichloropropane	2.50	2.29		mg/Kg		91	70 - 126
1,1-Dichloropropene	2.50	2.15		mg/Kg		86	74 - 124
Ethylbenzene	2.50	2.25		mg/Kg		90	78 - 121
Hexachlorobutadiene	2.50	2.04		mg/Kg		82	70 - 146
2-Hexanone	5.00	4.63		mg/Kg		93	60 - 126
Isopropylbenzene	2.50	2.16		mg/Kg		87	79 - 124
Methyl acetate	2.50	2.27		mg/Kg		91	43 - 135
Methylcyclohexane	2.50	2.15		mg/Kg		86	77 - 118
Methylene Chloride	2.50	2.38		mg/Kg		95	80 - 120
4-Methyl-2-pentanone	5.00	3.95		mg/Kg		79	59 - 127
Methyl tert-butyl ether	5.00	4.91		mg/Kg		98	80 - 121
Naphthalene	2.50	2.36		mg/Kg		94	71 - 138
n-Butylbenzene	2.50	2.03		mg/Kg		81	78 - 121
N-Propylbenzene	2.50	2.18		mg/Kg		87	78 - 125
p-Isopropyltoluene	2.50	2.05		mg/Kg		82	78 - 125
sec-Butylbenzene	2.50	2.01		mg/Kg		81	77 - 123
Styrene	2.50	2.25		mg/Kg		90	78 - 123
tert-Butylbenzene	2.50	2.02		mg/Kg		81	79 - 127
1,1,2,2-Tetrachloroethane	2.50	1.86		mg/Kg		74	70 - 123
1,1,1,2-Tetrachloroethane	2.50	2.32		mg/Kg		93	80 - 129
Tetrachloroethene	2.50	2.22		mg/Kg		89	77 - 130
Toluene	2.50	2.27		mg/Kg		91	73 - 122
trans-1,2-Dichloroethene	2.50	2.29		mg/Kg		91	79 - 120
trans-1,3-Dichloropropene	2.50	2.26		mg/Kg		90	69 - 133
1,2,3-Trichlorobenzene	2.50	2.45		mg/Kg		98	74 - 146
1,2,4-Trichlorobenzene	2.50	2.23		mg/Kg		89	77 - 142
1,1,1-Trichloroethane	2.50	2.19		mg/Kg		88	73 - 132
1,1,2-Trichloroethane	2.50	2.30		mg/Kg		92	72 - 124
Trichloroethene	2.50	2.24		mg/Kg		90	78 - 125
Trichlorofluoromethane	2.50	2.18		mg/Kg		87	60 - 148
1,2,3-Trichloropropane	2.50	1.90		mg/Kg		76	67 - 132
1,1,2-Trichloro-1,2,2-trifluoroethane	2.50	2.04		mg/Kg		81	62 - 141
1,2,4-Trimethylbenzene	2.50	2.09		mg/Kg		84	77 - 126
1,3,5-Trimethylbenzene	2.50	2.14		mg/Kg		86	77 - 126
Vinyl chloride	2.50	2.46		mg/Kg		98	65 - 133
Xylenes, Total	7.50	6.74		mg/Kg		90	79 - 121

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

Lab Sample ID: LCS 680-270405/4
Matrix: Solid
Analysis Batch: 270405

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	*85*		*65 - 130*
Dibromofluoromethane	*93*		*65 - 130*
Toluene-d8 (Surr)	*89*		*65 - 130*

Lab Sample ID: LCSD 680-270405/5
Matrix: Solid
Analysis Batch: 270405

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			5.00	6.50		mg/Kg		130	54 - 139	10	50
Benzene			2.50	2.31		mg/Kg		92	76 - 120	1	50
Bromobenzene			2.50	2.21		mg/Kg		88	77 - 131	0	50
Bromochloromethane			2.50	2.35		mg/Kg		94	80 - 120	1	50
Bromodichloromethane			2.50	2.37		mg/Kg		95	72 - 131	2	50
Bromoform			2.50	2.09		mg/Kg		83	64 - 150	1	50
Bromomethane			2.50	1.30		mg/Kg		52	10 - 174	3	50
2-Butanone			5.00	4.32		mg/Kg		86	66 - 123	7	50
Carbon disulfide			2.50	2.21		mg/Kg		88	74 - 125	1	50
Carbon tetrachloride			2.50	2.18		mg/Kg		87	67 - 140	0	50
Chlorobenzene			2.50	2.31		mg/Kg		92	80 - 120	0	50
Chlorodibromomethane			2.50	2.31		mg/Kg		92	77 - 132	1	50
Chloroethane			2.50	1.05		mg/Kg		42	10 - 176	3	50
Chloroform			2.50	2.29		mg/Kg		92	80 - 121	1	50
Chloromethane			2.50	2.50		mg/Kg		100	48 - 146	2	50
2-Chlorotoluene			2.50	2.10		mg/Kg		84	77 - 124	2	50
4-Chlorotoluene			2.50	2.09		mg/Kg		84	78 - 124	0	50
cis-1,2-Dichloroethene			2.50	2.32		mg/Kg		93	80 - 120	0	50
cis-1,3-Dichloropropene			2.50	2.36		mg/Kg		94	74 - 125	1	50
Cyclohexane			2.50	2.22		mg/Kg		89	70 - 130	3	50
1,2-Dibromo-3-Chloropropane			2.50	1.85		mg/Kg		74	49 - 152	3	50
1,2-Dibromoethane			2.50	2.31		mg/Kg		93	72 - 129	1	50
Dibromomethane			2.50	2.24		mg/Kg		90	73 - 127	2	50
1,2-Dichlorobenzene			2.50	2.02		mg/Kg		81	75 - 128	3	50
1,3-Dichlorobenzene			2.50	2.06		mg/Kg		82	76 - 128	2	50
1,4-Dichlorobenzene			2.50	2.03		mg/Kg		81	76 - 128	1	50
Dichlorodifluoromethane			2.50	2.07		mg/Kg		83	72 - 134	1	50
1,1-Dichloroethane			2.50	2.26		mg/Kg		90	80 - 120	1	50
1,2-Dichloroethane			2.50	2.34		mg/Kg		94	61 - 140	2	50
1,1-Dichloroethene			2.50	2.16		mg/Kg		86	64 - 138	3	50
1,2-Dichloropropane			2.50	2.38		mg/Kg		95	73 - 121	2	50
2,2-Dichloropropane			2.50	2.19		mg/Kg		88	78 - 126	0	50
1,3-Dichloropropane			2.50	2.29		mg/Kg		92	70 - 126	0	50
1,1-Dichloropropene			2.50	2.20		mg/Kg		88	74 - 124	2	50
Ethylbenzene			2.50	2.27		mg/Kg		91	78 - 121	1	50
Hexachlorobutadiene			2.50	2.12		mg/Kg		85	70 - 146	4	50
2-Hexanone			5.00	4.32		mg/Kg		86	60 - 126	7	50
Isopropylbenzene			2.50	2.12		mg/Kg		85	79 - 124	2	50
Methyl acetate			2.50	2.14		mg/Kg		86	43 - 135	6	50

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

Lab Sample ID: LCSD 680-270405/5
Matrix: Solid
Analysis Batch: 270405

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylcyclohexane			2.50	2.15		mg/Kg		86	77 - 118	0	50
Methylene Chloride			2.50	2.35		mg/Kg		94	80 - 120	1	50
4-Methyl-2-pentanone			5.00	3.87		mg/Kg		77	59 - 127	2	50
Methyl tert-butyl ether			5.00	4.76		mg/Kg		95	80 - 121	3	50
Naphthalene			2.50	2.25		mg/Kg		90	71 - 138	5	50
n-Butylbenzene			2.50	1.99		mg/Kg		80	78 - 121	2	50
N-Propylbenzene			2.50	2.08		mg/Kg		83	78 - 125	5	50
p-Isopropyltoluene			2.50	2.01		mg/Kg		80	78 - 125	2	50
sec-Butylbenzene			2.50	2.01		mg/Kg		81	77 - 123	0	50
Styrene			2.50	2.22		mg/Kg		89	78 - 123	1	50
tert-Butylbenzene			2.50	2.02		mg/Kg		81	79 - 127	0	50
1,1,2,2-Tetrachloroethane			2.50	1.78		mg/Kg		71	70 - 123	4	50
1,1,1,2-Tetrachloroethane			2.50	2.34		mg/Kg		94	80 - 129	1	50
Tetrachloroethene			2.50	2.22		mg/Kg		89	77 - 130	0	50
Toluene			2.50	2.30		mg/Kg		92	73 - 122	1	50
trans-1,2-Dichloroethene			2.50	2.21		mg/Kg		88	79 - 120	3	50
trans-1,3-Dichloropropene			2.50	2.29		mg/Kg		92	69 - 133	1	50
1,2,3-Trichlorobenzene			2.50	2.42		mg/Kg		97	74 - 146	2	50
1,2,4-Trichlorobenzene			2.50	2.19		mg/Kg		88	77 - 142	2	50
1,1,1-Trichloroethane			2.50	2.23		mg/Kg		89	73 - 132	2	50
1,1,2-Trichloroethane			2.50	2.25		mg/Kg		90	72 - 124	2	50
Trichloroethene			2.50	2.28		mg/Kg		91	78 - 125	2	50
Trichlorofluoromethane			2.50	2.18		mg/Kg		87	60 - 148	0	50
1,2,3-Trichloropropane			2.50	1.89		mg/Kg		76	67 - 132	0	50
1,1,2-Trichloro-1,2,2-trifluoroethane			2.50	2.05		mg/Kg		82	62 - 141	1	50
1,2,4-Trimethylbenzene			2.50	2.07		mg/Kg		83	77 - 126	1	50
1,3,5-Trimethylbenzene			2.50	2.08		mg/Kg		83	77 - 126	3	50
Vinyl chloride			2.50	2.49		mg/Kg		100	65 - 133	1	50
Xylenes, Total			7.50	6.69		mg/Kg		89	79 - 121	1	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*83*		*65 - 130*
Dibromofluoromethane	*94*		*65 - 130*
Toluene-d8 (Surr)	*90*		*65 - 130*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-179992/1-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 179992

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.033	U	0.033	0.0099	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Acenaphthylene	0.033	U	0.033	0.0076	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Acetophenone	0.33	U	0.33	0.060	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
2-Acetylaminofluorene	0.17	U	0.17	0.031	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
alpha,alpha-Dimethyl phenethylamine	1.3	U	1.3	0.39	mg/Kg		03/15/13 07:34	03/22/13 21:09	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-179992/1-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 179992

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Aminobiphenyl	0.17	U	0.17	0.067	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Aniline	0.67	U	0.67	0.30	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Anthracene	0.033	U	0.033	0.0078	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Aramite	0.17	U	0.17	0.033	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Benzenethiol	0.67	U	0.67	0.33	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Benzidine	0.67	U	0.67	0.33	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Benzo[a]anthracene	0.033	U	0.033	0.0070	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Benzo[a]pyrene	0.033	U	0.033	0.0061	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Benzo[b]fluoranthene	0.033	U	0.033	0.0065	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Benzo[g,h,i]perylene	0.033	U	0.033	0.011	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Benzoic acid	1.7	U	1.7	0.46	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Benzo[k]fluoranthene	0.033	U	0.033	0.0079	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Benzyl alcohol	0.33	U	0.33	0.099	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Bis(2-chloroethoxy)methane	0.17	U	0.17	0.037	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Bis(2-chloroethyl)ether	0.17	U	0.17	0.049	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Bis(2-ethylhexyl) phthalate	0.17	U	0.17	0.044	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
4-Bromophenyl phenyl ether	0.17	U	0.17	0.037	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Butyl benzyl phthalate	0.17	U	0.17	0.042	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Carbofuran	0.33	U	0.33	0.077	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
4-Chloroaniline	0.67	U	0.67	0.10	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
4-Chloro-3-methylphenol	0.33	U	0.33	0.16	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
2-Chloronaphthalene	0.17	U	0.17	0.037	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
2-Chlorophenol	0.17	U	0.17	0.048	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
4-Chlorophenyl phenyl ether	0.17	U	0.17	0.052	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Chrysene	0.033	U	0.033	0.0075	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Diallate	0.17	U	0.17	0.033	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Dibenz(a,h)anthracene	0.033	U	0.033	0.0093	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Dibenz[a,j]acridine	0.17	U	0.17	0.018	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Dibenzofuran	0.17	U	0.17	0.040	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
1,2-Dichlorobenzene	0.17	U	0.17	0.036	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
1,3-Dichlorobenzene	0.17	U	0.17	0.035	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
1,4-Dichlorobenzene	0.17	U	0.17	0.035	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
3,3'-Dichlorobenzidine	0.17	U	0.17	0.028	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
2,4-Dichlorophenol	0.33	U	0.33	0.10	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
2,6-Dichlorophenol	0.17	U	0.17	0.047	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Diethyl phthalate	0.17	U	0.17	0.055	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Diethylstilbestrol	0.67	U	0.67	0.083	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Dimethoate	0.33	U	0.33	0.075	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
7,12-Dimethylbenz(a)anthracene	0.17	U	0.17	0.041	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
3,3'-Dimethylbenzidine	0.67	U	0.67	0.17	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
2,4-Dimethylphenol	0.33	U	0.33	0.10	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Dimethyl phthalate	0.17	U	0.17	0.042	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Di-n-butyl phthalate	0.17	U	0.17	0.042	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
1,4-Dinitrobenzene	0.17	U	0.17	0.026	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
4,6-Dinitro-2-methylphenol	0.33	U	0.33	0.081	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
2,4-Dinitrophenol	0.67	U	0.67	0.17	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
2,4-Dinitrotoluene	0.17	U	0.17	0.051	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
2,6-Dinitrotoluene	0.17	U	0.17	0.040	mg/Kg		03/15/13 07:34	03/22/13 21:09	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-179992/1-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 179992

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	0.17	U	0.17	0.067	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Dinoseb	0.33	U	0.33	0.086	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
1,4-Dioxane	0.67	U	0.67	0.23	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Diphenylamine	0.17	U	0.17	0.038	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
1,2-Diphenylhydrazine	0.17	U	0.17	0.042	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Disulfoton	0.33	U	0.33	0.050	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Ethyl 4,4'-Dichlorobenzilate	0.17	U	0.17	0.021	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Ethyl methanesulfonate	0.17	U	0.17	0.019	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Ethyl Parathion	0.33	U	0.33	0.093	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Famphur	0.33	U	0.33	0.054	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Fluoranthene	0.033	U	0.033	0.014	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Fluorene	0.033	U	0.033	0.0076	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Hexachlorobenzene	0.067	U	0.067	0.0065	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Hexachlorobutadiene	0.17	U	0.17	0.044	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Hexachlorocyclopentadiene	0.67	U	0.67	0.15	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Hexachloroethane	0.17	U	0.17	0.035	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Hexachlorophene	3.3	U	3.3	1.2	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Hexachloropropene	0.33	U	0.33	0.13	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Indeno[1,2,3-cd]pyrene	0.033	U	0.033	0.011	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Isophorone	0.17	U	0.17	0.037	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Isosafrole	0.17	U	0.17	0.018	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Kepone	0.67	U	0.67	0.33	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Malathion	0.33	U	0.33	0.099	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
m-Dinitrobenzene	0.17	U	0.17	0.031	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Methapyrilene	1.3	U	1.3	0.17	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
3-Methylcholanthrene	0.17	U	0.17	0.014	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Methyl methanesulfonate	0.17	U	0.17	0.027	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
2-Methylnaphthalene	0.17	U	0.17	0.043	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Methyl parathion	0.33	U	0.33	0.094	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
2-Methylphenol	0.17	U	0.17	0.044	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
3 & 4 Methylphenol	0.17	U	0.17	0.063	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Naphthalene	0.033	U	0.033	0.0064	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
1,4-Naphthoquinone	0.67	U	0.67	0.33	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
1-Naphthylamine	0.17	U	0.17	0.026	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
2-Naphthylamine	0.17	U	0.17	0.045	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
2-Nitroaniline	0.17	U	0.17	0.060	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
3-Nitroaniline	0.33	U	0.33	0.064	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
4-Nitroaniline	0.33	U	0.33	0.068	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Nitrobenzene	0.033	U	0.033	0.010	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
5-Nitro-o-toluidine	0.17	U	0.17	0.031	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
2-Nitrophenol	0.33	U	0.33	0.052	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
4-Nitrophenol	0.67	U	0.67	0.18	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
4-Nitroquinoline-1-oxide	0.67	U	0.67	0.31	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
N-Nitrosodiethylamine	0.33	U	0.33	0.095	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
N-Nitrosodimethylamine	0.67	U	0.67	0.36	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
N-Nitrosodi-n-butylamine	0.17	U	0.17	0.060	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
N-Nitrosodi-n-propylamine	0.17	U	0.17	0.042	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
N-Nitrosodiphenylamine	0.17	U	0.17	0.045	mg/Kg		03/15/13 07:34	03/22/13 21:09	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-179992/1-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 179992

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosomethylethylamine	0.67	U	0.67	0.27	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
N-Nitrosomorpholine	0.17	U	0.17	0.031	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
N-Nitrosopiperidine	0.33	U	0.33	0.031	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
N-Nitrosopyrrolidine	0.17	U	0.17	0.038	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
o,o',o''-Triethylphosphorothioate	0.33	U	0.33	0.051	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
o-Toluidine	0.17	U	0.17	0.032	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
2,2'-oxybis[1-chloropropane]	0.17	U	0.17	0.037	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
p-Dimethylamino azobenzene	0.17	U	0.17	0.018	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Pentachlorobenzene	0.17	U	0.17	0.042	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Pentachloronitrobenzene	0.17	U	0.17	0.024	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Pentachlorophenol	0.67	U	0.67	0.17	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Phenacetin	0.17	U	0.17	0.035	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Phenanthrene	0.033	U	0.033	0.014	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Phenol	0.17	U	0.17	0.053	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Phorate	0.33	U	0.33	0.070	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
2-Picoline	0.33	U	0.33	0.13	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
p-Phenylene diamine	1.3	U	1.3	0.070	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Pronamide	0.17	U	0.17	0.027	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Pyrene	0.033	U	0.033	0.012	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Pyridine	0.67	U	0.67	0.39	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Safrole	0.17	U	0.17	0.016	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Sulfotepp	0.33	U	0.33	0.066	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
sym-Trinitrobenzene	0.67	U	0.67	0.34	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
1,2,4,5-Tetrachlorobenzene	0.17	U	0.17	0.039	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
2,3,4,6-Tetrachlorophenol	0.17	U	0.17	0.045	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
Thionazin	0.33	U	0.33	0.074	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
1,2,4-Trichlorobenzene	0.17	U	0.17	0.038	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
2,4,5-Trichlorophenol	0.33	U	0.33	0.095	mg/Kg		03/15/13 07:34	03/22/13 21:09	1
2,4,6-Trichlorophenol	0.33	U	0.33	0.042	mg/Kg		03/15/13 07:34	03/22/13 21:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*30 - 119*	*03/15/13 07:34*	*03/22/13 21:09*	*1*
2-Fluorophenol	*83*		*30 - 110*	*03/15/13 07:34*	*03/22/13 21:09*	*1*
Nitrobenzene-d5	*85*		*30 - 115*	*03/15/13 07:34*	*03/22/13 21:09*	*1*
Phenol-d5	*79*		*31 - 110*	*03/15/13 07:34*	*03/22/13 21:09*	*1*
Terphenyl-d14	*92*		*36 - 134*	*03/15/13 07:34*	*03/22/13 21:09*	*1*
2,4,6-Tribromophenol	*72*		*35 - 137*	*03/15/13 07:34*	*03/22/13 21:09*	*1*

Lab Sample ID: LCS 500-179992/2-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1.67	1.30		mg/Kg		78	53 - 110
Acenaphthylene	1.67	1.28		mg/Kg		77	51 - 110
Acetophenone	1.67	1.05		mg/Kg		63	35 - 100
Aniline	1.67	0.755		mg/Kg		45	34 - 100
Anthracene	1.67	1.44		mg/Kg		86	52 - 110

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-179992/2-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzidine	1.67	0.67	U *	mg/Kg		6	10 - 100
Benzo[a]anthracene	1.67	1.32		mg/Kg		79	57 - 110
Benzo[a]pyrene	1.67	1.40		mg/Kg		84	56 - 110
Benzo[b]fluoranthene	1.67	1.40		mg/Kg		84	50 - 110
Benzo[g,h,i]perylene	1.67	1.38		mg/Kg		83	54 - 117
Benzoic acid	1.67	0.620	J	mg/Kg		37	10 - 100
Benzo[k]fluoranthene	1.67	1.42		mg/Kg		85	43 - 121
Benzyl alcohol	1.67	1.34		mg/Kg		80	44 - 110
Bis(2-chloroethoxy)methane	1.67	1.32		mg/Kg		79	56 - 110
Bis(2-chloroethyl)ether	1.67	1.36		mg/Kg		82	48 - 110
Bis(2-ethylhexyl) phthalate	1.67	1.44		mg/Kg		86	56 - 114
4-Bromophenyl phenyl ether	1.67	1.42		mg/Kg		85	58 - 111
Butyl benzyl phthalate	1.67	1.50		mg/Kg		90	60 - 120
4-Chloroaniline	1.67	0.854		mg/Kg		51	25 - 110
4-Chloro-3-methylphenol	1.67	1.38		mg/Kg		83	54 - 111
2-Chloronaphthalene	1.67	1.33		mg/Kg		80	54 - 110
2-Chlorophenol	1.67	1.30		mg/Kg		78	53 - 110
4-Chlorophenyl phenyl ether	1.67	1.37		mg/Kg		82	57 - 110
Chrysene	1.67	1.35		mg/Kg		81	54 - 110
Dibenz(a,h)anthracene	1.67	1.42		mg/Kg		85	52 - 118
Dibenzofuran	1.67	1.35		mg/Kg		81	54 - 110
1,2-Dichlorobenzene	1.67	1.29		mg/Kg		77	55 - 110
1,3-Dichlorobenzene	1.67	1.21		mg/Kg		72	52 - 110
1,4-Dichlorobenzene	1.67	1.25		mg/Kg		75	52 - 110
3,3'-Dichlorobenzidine	1.67	0.995		mg/Kg		60	31 - 110
2,4-Dichlorophenol	1.67	1.34		mg/Kg		80	60 - 110
2,6-Dichlorophenol	1.67	1.35		mg/Kg		81	63 - 110
Diethyl phthalate	1.67	1.38		mg/Kg		83	58 - 112
3,3'-Dimethylbenzidine	1.67	0.213	J	mg/Kg		13	10 - 100
2,4-Dimethylphenol	1.67	1.28		mg/Kg		77	52 - 110
Dimethyl phthalate	1.67	1.33		mg/Kg		80	60 - 110
Di-n-butyl phthalate	1.67	1.56		mg/Kg		94	56 - 117
4,6-Dinitro-2-methylphenol	1.67	1.17		mg/Kg		70	10 - 110
2,4-Dinitrophenol	1.67	1.03		mg/Kg		62	10 - 110
2,4-Dinitrotoluene	1.67	1.34		mg/Kg		80	57 - 116
2,6-Dinitrotoluene	1.67	1.29		mg/Kg		78	60 - 110
Di-n-octyl phthalate	1.67	1.65		mg/Kg		99	49 - 121
Dinoseb	1.67	1.23		mg/Kg		74	50 - 150
1,4-Dioxane	1.67	0.739		mg/Kg		44	10 - 100
1,2-Diphenylhydrazine	1.67	1.50		mg/Kg		90	53 - 112
Fluoranthene	1.67	1.40		mg/Kg		84	55 - 113
Fluorene	1.67	1.47		mg/Kg		88	52 - 112
Hexachlorobenzene	1.67	1.32		mg/Kg		79	54 - 114
Hexachlorobutadiene	1.67	1.29		mg/Kg		78	53 - 110
Hexachlorocyclopentadiene	1.67	0.984		mg/Kg		59	10 - 112
Hexachloroethane	1.67	1.32		mg/Kg		79	51 - 110
Hexachloropropene	1.67	1.29		mg/Kg		77	54 - 110
Indeno[1,2,3-cd]pyrene	1.67	1.40		mg/Kg		84	53 - 116

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-179992/2-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isophorone	1.67	1.24		mg/Kg		74	49 - 110
2-Methylnaphthalene	1.67	1.36		mg/Kg		82	51 - 110
2-Methylphenol	1.67	1.31		mg/Kg		79	48 - 110
3 & 4 Methylphenol	1.67	1.60		mg/Kg		96	44 - 121
Naphthalene	1.67	1.45		mg/Kg		87	48 - 110
2-Nitroaniline	1.67	1.45		mg/Kg		87	53 - 126
3-Nitroaniline	1.67	0.933		mg/Kg		56	36 - 110
4-Nitroaniline	1.67	1.15		mg/Kg		69	44 - 124
Nitrobenzene	1.67	1.30		mg/Kg		78	52 - 110
2-Nitrophenol	1.67	1.31		mg/Kg		78	54 - 112
4-Nitrophenol	1.67	1.73		mg/Kg		104	39 - 125
N-Nitrosodiethylamine	1.67	1.26		mg/Kg		75	50 - 110
N-Nitrosodimethylamine	1.67	1.19		mg/Kg		72	42 - 110
N-Nitrosodi-n-butylamine	1.67	1.36		mg/Kg		81	46 - 138
N-Nitrosodi-n-propylamine	1.67	1.55		mg/Kg		93	40 - 121
N-Nitrosodiphenylamine	1.67	1.36		mg/Kg		82	58 - 110
N-Nitrosomethylethylamine	1.67	1.15		mg/Kg		69	49 - 114
N-Nitrosopiperidine	1.67	1.29		mg/Kg		78	56 - 123
N-Nitrosopyrrolidine	1.67	1.44		mg/Kg		86	46 - 116
2,2'-oxybis[1-chloropropane]	1.67	1.35		mg/Kg		81	36 - 110
Pentachlorobenzene	1.67	1.31		mg/Kg		79	70 - 110
Pentachlorophenol	1.67	1.26		mg/Kg		75	20 - 117
Phenanthrene	1.67	1.36		mg/Kg		82	51 - 116
Phenol	1.67	1.40		mg/Kg		84	49 - 110
Pyrene	1.67	1.35		mg/Kg		81	50 - 112
Pyridine	1.67	0.817		mg/Kg		49	24 - 100
1,2,4,5-Tetrachlorobenzene	1.67	1.34		mg/Kg		81	63 - 110
2,3,4,6-Tetrachlorophenol	1.67	1.40		mg/Kg		84	45 - 116
1,2,4-Trichlorobenzene	1.67	1.28		mg/Kg		77	57 - 110
2,4,5-Trichlorophenol	1.67	1.41		mg/Kg		84	57 - 113
2,4,6-Trichlorophenol	1.67	1.39		mg/Kg		84	55 - 112

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*88*		*30 - 119*
2-Fluorophenol	*84*		*30 - 110*
Nitrobenzene-d5	*86*		*30 - 115*
Phenol-d5	*87*		*31 - 110*
Terphenyl-d14	*90*		*36 - 134*
2,4,6-Tribromophenol	*87*		*35 - 137*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-179990/1-A
Matrix: Solid
Analysis Batch: 180839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 179990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0017	U	0.0017	0.00069	mg/Kg		03/15/13 07:24	03/26/13 07:14	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 500-179990/1-A
Matrix: Solid
Analysis Batch: 180839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 179990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	0.0017	U	0.0017	0.00042	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
beta-BHC	0.0017	U	0.0017	0.00052	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Chlordane (technical)	0.0067	U	0.0067	0.0033	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
4,4'-DDD	0.0017	U	0.0017	0.00033	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
4,4'-DDE	0.0017	U	0.0017	0.00028	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
4,4'-DDT	0.0017	U	0.0017	0.00088	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
delta-BHC	0.0017	U	0.0017	0.00053	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Dieldrin	0.0017	U	0.0017	0.00023	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Endosulfan I	0.0017	U	0.0017	0.00073	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Endosulfan II	0.0017	U	0.0017	0.00027	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Endosulfan sulfate	0.0017	U	0.0017	0.00031	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Endrin	0.0017	U	0.0017	0.00023	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Endrin aldehyde	0.0017	U	0.0017	0.00028	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Endrin ketone	0.0017	U	0.0017	0.00038	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
gamma-BHC (Lindane)	0.0017	U	0.0017	0.00036	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Heptachlor	0.0017	U	0.0017	0.00070	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Heptachlor epoxide	0.0017	U	0.0017	0.00059	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Isodrin	0.0017	U	0.0017	0.00078	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Methoxychlor	0.0083	U	0.0083	0.00032	mg/Kg		03/15/13 07:24	03/26/13 07:14	1
Toxaphene	0.017	U	0.017	0.0070	mg/Kg		03/15/13 07:24	03/26/13 07:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*56 - 128*	*03/15/13 07:24*	*03/26/13 07:14*	*1*
Tetrachloro-m-xylene	*63*		*45 - 112*	*03/15/13 07:24*	*03/26/13 07:14*	*1*

Lab Sample ID: LCS 500-179990/2-A
Matrix: Solid
Analysis Batch: 180839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.0133	0.00843		mg/Kg		63	54 - 110
alpha-BHC	0.0133	0.00849		mg/Kg		64	53 - 110
beta-BHC	0.0133	0.0103		mg/Kg		77	65 - 110
4,4'-DDD	0.0133	0.0104		mg/Kg		78	66 - 110
4,4'-DDE	0.0133	0.0100		mg/Kg		75	64 - 110
4,4'-DDT	0.0133	0.00970		mg/Kg		73	50 - 115
delta-BHC	0.0133	0.00913		mg/Kg		68	50 - 110
Dieldrin	0.0133	0.00992		mg/Kg		74	63 - 110
Endosulfan I	0.0133	0.00967		mg/Kg		73	51 - 110
Endosulfan II	0.0133	0.00995		mg/Kg		75	56 - 110
Endosulfan sulfate	0.0133	0.0104		mg/Kg		78	63 - 120
Endrin	0.0133	0.00964		mg/Kg		72	59 - 110
Endrin aldehyde	0.0133	0.00993		mg/Kg		74	56 - 110
Endrin ketone	0.0133	0.0103		mg/Kg		77	59 - 120
gamma-BHC (Lindane)	0.0133	0.00896		mg/Kg		67	55 - 110
Heptachlor	0.0133	0.00942		mg/Kg		71	50 - 110
Heptachlor epoxide	0.0133	0.0102		mg/Kg		76	50 - 122
Methoxychlor	0.0133	0.0102		mg/Kg		76	52 - 119

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-179990/2-A
Matrix: Solid
Analysis Batch: 180839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179990

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	82		56 - 128
Tetrachloro-m-xylene	58		45 - 112

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-179990/1-A
Matrix: Solid
Analysis Batch: 180342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 179990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.017	U	0.017	0.0059	mg/Kg		03/15/13 07:24	03/20/13 08:23	1
PCB-1221	0.017	U	0.017	0.0073	mg/Kg		03/15/13 07:24	03/20/13 08:23	1
PCB-1232	0.017	U	0.017	0.0073	mg/Kg		03/15/13 07:24	03/20/13 08:23	1
PCB-1242	0.017	U	0.017	0.0055	mg/Kg		03/15/13 07:24	03/20/13 08:23	1
PCB-1248	0.017	U	0.017	0.0066	mg/Kg		03/15/13 07:24	03/20/13 08:23	1
PCB-1254	0.017	U	0.017	0.0036	mg/Kg		03/15/13 07:24	03/20/13 08:23	1
PCB-1260	0.017	U	0.017	0.0082	mg/Kg		03/15/13 07:24	03/20/13 08:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		50 - 116	03/15/13 07:24	03/20/13 08:23	1
DCB Decachlorobiphenyl	108		48 - 142	03/15/13 07:24	03/20/13 08:23	1

Lab Sample ID: LCS 500-179990/3-A
Matrix: Solid
Analysis Batch: 180342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.167	0.121		mg/Kg		72	59 - 110
PCB-1260	0.167	0.165		mg/Kg		99	69 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	77		50 - 116
DCB Decachlorobiphenyl	100		48 - 142

Method: 8141A - Organophosphorous Pesticides (GC)

Lab Sample ID: MB 640-100242/1-A
Matrix: Solid
Analysis Batch: 100656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100242

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.065	U	0.065	0.0029	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Azinphos-methyl	0.065	U	0.065	0.015	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Bolstar	0.033	U	0.033	0.0046	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Carbophenthion	0.065	U	0.065	0.0052	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Chlorpyrifos	0.033	U	0.033	0.0067	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Chlorpyrifos-methyl	0.033	U	0.033	0.012	mg/Kg		03/16/13 09:29	03/28/13 15:05	1

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: MB 640-100242/1-A
Matrix: Solid
Analysis Batch: 100656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100242

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coumaphos	0.33	U	0.33	0.022	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Demeton-O	0.082	U	0.082	0.0026	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Demeton-S	0.082	U	0.082	0.0055	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Demeton, Total	0.082	U	0.082	0.0076	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Diazinon	0.033	U	0.033	0.0056	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Dichlofenthion	0.033	U	0.033	0.0042	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Dichlorvos	0.065	U	0.065	0.0063	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Dimethoate	0.065	U	0.065	0.0087	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Disulfoton	0.065	U	0.065	0.016	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
EPN	0.033	U	0.033	0.0045	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Ethion	0.017	U	0.017	0.0052	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Ethoprop	0.017	U	0.017	0.0042	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Ethyl Parathion	0.033	U	0.033	0.0054	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Famphur	0.065	U	0.065	0.0082	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Fensulfothion	0.33	U	0.33	0.012	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Fenthion	0.033	U	0.033	0.0046	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Malathion	0.033	U	0.033	0.0081	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Merphos	0.033	U	0.033	0.011	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Methyl parathion	0.017	U	0.017	0.0053	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Mevinphos	0.065	U	0.065	0.0045	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Monochrotophos	0.33	U	0.33	0.045	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Naled	0.33	U	0.33	0.022	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Phorate	0.033	U	0.033	0.0053	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Ronnel	0.033	U	0.033	0.0042	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Simazine	0.065	U	0.065	0.0032	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Stirophos	0.033	U	0.033	0.0063	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Sulfotepp	0.017	U	0.017	0.0085	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Terbufos	0.017	U	0.017	0.016	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Thionazin	0.033	U	0.033	0.0099	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Tokuthion	0.033	U	0.033	0.0053	mg/Kg		03/16/13 09:29	03/28/13 15:05	1
Trichloronate	0.33	U	0.33	0.0075	mg/Kg		03/16/13 09:29	03/28/13 15:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate (TPP)	*81*		*35 - 134*	*03/16/13 09:29*	*03/28/13 15:05*	*1*

Lab Sample ID: LCS 640-100242/2-A
Matrix: Solid
Analysis Batch: 100656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100242

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	0.654	0.465		mg/Kg		71	56 - 119
Azinphos-methyl	0.164	0.157		mg/Kg		96	52 - 122
Bolstar	0.164	0.135		mg/Kg		83	55 - 141
Chlorpyrifos	0.164	0.110		mg/Kg		67	40 - 132
Coumaphos	0.164	0.154	J	mg/Kg		94	47 - 160
Demeton, Total	0.327	0.217		mg/Kg		66	31 - 118
Diazinon	0.164	0.103		mg/Kg		63	36 - 113
Dichlofenthion	0.164	0.108		mg/Kg		66	36 - 114

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: LCS 640-100242/2-A
Matrix: Solid
Analysis Batch: 100656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100242

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorvos	0.164	0.0795		mg/Kg		49	10 - 154
EPN	0.164	0.196		mg/Kg		120	68 - 159
Ethion	0.164	0.127		mg/Kg		77	49 - 128
Ethoprop	0.164	0.103		mg/Kg		63	23 - 134
Ethyl Parathion	0.164	0.131		mg/Kg		80	53 - 126
Famphur	0.164	0.154		mg/Kg		94	53 - 118
Fensulfothion	0.164	0.175	J	mg/Kg		107	33 - 168
Fenthion	0.164	0.118		mg/Kg		72	41 - 136
Malathion	0.164	0.116		mg/Kg		71	45 - 125
Methyl parathion	0.164	0.124		mg/Kg		76	44 - 126
Mevinphos	0.164	0.108		mg/Kg		66	10 - 156
Monochrotophos	0.654	0.163	J	mg/Kg		25	15 - 167
Naled	0.654	0.361		mg/Kg		55	13 - 102
Phorate	0.164	0.0921		mg/Kg		56	17 - 142
Ronnel	0.164	0.122		mg/Kg		75	36 - 134
Simazine	0.654	0.370		mg/Kg		57	42 - 127
Tokuthion	0.164	0.122		mg/Kg		75	48 - 142

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate (TPP)	*79*		*35 - 134*

Lab Sample ID: LCSD 640-100242/3-A
Matrix: Solid
Analysis Batch: 100656

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100242

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Atrazine	0.650	0.431		mg/Kg		66	56 - 119	8	30
Azinphos-methyl	0.163	0.150		mg/Kg		92	52 - 122	5	30
Bolstar	0.163	0.125		mg/Kg		77	55 - 141	8	30
Chlorpyrifos	0.163	0.106		mg/Kg		65	40 - 132	4	30
Coumaphos	0.163	0.149	J	mg/Kg		92	47 - 160	3	30
Demeton, Total	0.325	0.207		mg/Kg		64	31 - 118	4	41
Diazinon	0.163	0.0979		mg/Kg		60	36 - 113	5	38
Dichlofenthion	0.163	0.104		mg/Kg		64	36 - 114	5	33
Dichlorvos	0.163	0.0733		mg/Kg		45	10 - 154	8	51
EPN	0.163	0.181		mg/Kg		111	68 - 159	8	30
Ethion	0.163	0.113		mg/Kg		69	49 - 128	12	30
Ethoprop	0.163	0.0995		mg/Kg		61	23 - 134	4	45
Ethyl Parathion	0.163	0.140		mg/Kg		86	53 - 126	7	30
Famphur	0.163	0.139		mg/Kg		86	53 - 118	10	30
Fensulfothion	0.163	0.160	J	mg/Kg		99	33 - 168	9	30
Fenthion	0.163	0.114		mg/Kg		70	41 - 136	4	30
Malathion	0.163	0.110		mg/Kg		68	45 - 125	5	30
Methyl parathion	0.163	0.123		mg/Kg		75	44 - 126	1	30
Mevinphos	0.163	0.0952		mg/Kg		59	10 - 156	13	50
Monochrotophos	0.650	0.137	J	mg/Kg		21	15 - 167	17	60
Naled	0.650	0.349		mg/Kg		54	13 - 102	4	53
Phorate	0.163	0.0864		mg/Kg		53	17 - 142	6	46

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: LCSD 640-100242/3-A
Matrix: Solid
Analysis Batch: 100656

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100242

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ronnel			0.163	0.115		mg/Kg		71	36 - 134	6	35
Simazine			0.650	0.338		mg/Kg		52	42 - 127	9	31
Tokuthion			0.163	0.109		mg/Kg		67	48 - 142	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Triphenylphosphate (TPP)	*76*		*35 - 134*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 680-269487/1-A
Matrix: Solid
Analysis Batch: 269937

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 269487

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	94	U	94	47	mg/Kg		03/15/13 09:28	03/19/13 02:23	1
Antimony	9.4	U	9.4	2.5	mg/Kg		03/15/13 09:28	03/19/13 02:23	1
Arsenic	9.4	U	9.4	2.8	mg/Kg		03/15/13 09:28	03/19/13 02:23	1
Barium	4.7	U	4.7	1.4	mg/Kg		03/15/13 09:28	03/19/13 02:23	1
Beryllium	1.9	U	1.9	0.094	mg/Kg		03/15/13 09:28	03/19/13 02:23	1
Cadmium	2.4	U	2.4	0.47	mg/Kg		03/15/13 09:28	03/19/13 02:23	1
Calcium	240	U	240	94	mg/Kg		03/15/13 09:28	03/19/13 02:23	1
Chromium	4.7	U	4.7	2.4	mg/Kg		03/15/13 09:28	03/19/13 02:23	1
Cobalt	4.7	U	4.7	0.57	mg/Kg		03/15/13 09:28	03/19/13 02:23	1
Copper	12	U	12	5.2	mg/Kg		03/15/13 09:28	03/19/13 02:23	1
Iron	94	U	94	33	mg/Kg		03/15/13 09:28	03/19/13 02:23	1
Lead	4.7	U	4.7	2.5	mg/Kg		03/15/13 09:28	03/19/13 02:23	1
Magnesium	240	U	240	11	mg/Kg		03/15/13 09:28	03/19/13 02:23	1
Manganese	4.7	U	4.7	1.4	mg/Kg		03/15/13 09:28	03/19/13 02:23	1
Nickel	19	U	19	1.5	mg/Kg		03/15/13 09:28	03/19/13 02:23	1
Potassium	470	U	470	38	mg/Kg		03/15/13 09:28	03/19/13 02:23	1
Selenium	12	U	12	4.7	mg/Kg		03/15/13 09:28	03/19/13 02:23	1
Silver	4.7	U	4.7	0.45	mg/Kg		03/15/13 09:28	03/19/13 02:23	1
Sodium	940	U	940	390	mg/Kg		03/15/13 09:28	03/19/13 02:23	1
Thallium	12	U	12	4.7	mg/Kg		03/15/13 09:28	03/19/13 02:23	1
Vanadium	4.7	U	4.7	1.1	mg/Kg		03/15/13 09:28	03/19/13 02:23	1
Zinc	9.4	U	9.4	5.7	mg/Kg		03/15/13 09:28	03/19/13 02:23	1

Lab Sample ID: LCS 680-269487/3-A
Matrix: Solid
Analysis Batch: 269937

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269487

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum			194	199		mg/Kg		103	75 - 125
Antimony			19.4	19.1		mg/Kg		98	75 - 125
Arsenic			19.4	21.1		mg/Kg		109	75 - 125
Barium			19.4	19.2		mg/Kg		99	75 - 125
Beryllium			19.4	19.6		mg/Kg		101	75 - 125
Cadmium			19.4	19.7		mg/Kg		101	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 680-269487/3-A
Matrix: Solid
Analysis Batch: 269937

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269487

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	1940	1870		mg/Kg		96	75 - 125
Chromium	19.4	19.5		mg/Kg		100	75 - 125
Cobalt	19.4	19.2		mg/Kg		99	75 - 125
Copper	19.4	19.3		mg/Kg		99	75 - 125
Iron	1940	2030		mg/Kg		104	75 - 125
Lead	19.4	19.2		mg/Kg		99	75 - 125
Magnesium	1940	1930		mg/Kg		99	75 - 125
Manganese	194	200		mg/Kg		103	75 - 125
Nickel	19.4	19.7		mg/Kg		101	75 - 125
Potassium	1940	1860		mg/Kg		96	75 - 125
Selenium	19.4	18.9		mg/Kg		97	75 - 125
Silver	19.4	19.8		mg/Kg		102	75 - 125
Sodium	1940	1690		mg/Kg		87	75 - 125
Thallium	3.88	4.26		mg/Kg		110	75 - 125
Vanadium	19.4	19.5		mg/Kg		100	75 - 125
Zinc	19.4	18.8		mg/Kg		97	75 - 125

Lab Sample ID: MB 680-269660/1-A
Matrix: Solid
Analysis Batch: 269937

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 269660

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	20	U	20	9.9	mg/Kg		03/17/13 10:25	03/18/13 23:23	1
Antimony	2.0	U	2.0	0.52	mg/Kg		03/17/13 10:25	03/18/13 23:23	1
Arsenic	2.0	U	2.0	0.58	mg/Kg		03/17/13 10:25	03/18/13 23:23	1
Barium	0.99	U	0.99	0.30	mg/Kg		03/17/13 10:25	03/18/13 23:23	1
Beryllium	0.40	U	0.40	0.020	mg/Kg		03/17/13 10:25	03/18/13 23:23	1
Cadmium	0.50	U	0.50	0.099	mg/Kg		03/17/13 10:25	03/18/13 23:23	1
Calcium	50	U	50	20	mg/Kg		03/17/13 10:25	03/18/13 23:23	1
Chromium	0.99	U	0.99	0.50	mg/Kg		03/17/13 10:25	03/18/13 23:23	1
Cobalt	0.99	U	0.99	0.12	mg/Kg		03/17/13 10:25	03/18/13 23:23	1
Copper	2.5	U	2.5	1.1	mg/Kg		03/17/13 10:25	03/18/13 23:23	1
Iron	20	U	20	6.9	mg/Kg		03/17/13 10:25	03/18/13 23:23	1
Lead	0.99	U	0.99	0.52	mg/Kg		03/17/13 10:25	03/18/13 23:23	1
Magnesium	50	U	50	2.4	mg/Kg		03/17/13 10:25	03/18/13 23:23	1
Manganese	0.99	U	0.99	0.30	mg/Kg		03/17/13 10:25	03/18/13 23:23	1
Nickel	4.0	U	4.0	0.31	mg/Kg		03/17/13 10:25	03/18/13 23:23	1
Potassium	99	U	99	7.9	mg/Kg		03/17/13 10:25	03/18/13 23:23	1
Selenium	2.5	U	2.5	0.99	mg/Kg		03/17/13 10:25	03/18/13 23:23	1
Silver	0.99	U	0.99	0.095	mg/Kg		03/17/13 10:25	03/18/13 23:23	1
Sodium	200	U	200	81	mg/Kg		03/17/13 10:25	03/18/13 23:23	1
Thallium	2.5	U	2.5	0.98	mg/Kg		03/17/13 10:25	03/18/13 23:23	1
Vanadium	0.99	U	0.99	0.24	mg/Kg		03/17/13 10:25	03/18/13 23:23	1
Zinc	2.0	U	2.0	1.2	mg/Kg		03/17/13 10:25	03/18/13 23:23	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 680-269660/3-A
Matrix: Solid
Analysis Batch: 269937

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269660

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	190	184		mg/Kg		97	75 - 125
Antimony	19.0	18.3		mg/Kg		96	75 - 125
Arsenic	19.0	20.3		mg/Kg		106	75 - 125
Barium	19.0	18.6		mg/Kg		98	75 - 125
Beryllium	19.0	19.4		mg/Kg		102	75 - 125
Cadmium	19.0	19.0		mg/Kg		100	75 - 125
Calcium	1900	1830		mg/Kg		96	75 - 125
Chromium	19.0	18.9		mg/Kg		99	75 - 125
Cobalt	19.0	18.6		mg/Kg		98	75 - 125
Copper	19.0	19.1		mg/Kg		100	75 - 125
Iron	1900	1970		mg/Kg		104	75 - 125
Lead	19.0	18.7		mg/Kg		98	75 - 125
Magnesium	1900	1870		mg/Kg		98	75 - 125
Manganese	190	195		mg/Kg		103	75 - 125
Nickel	19.0	19.2		mg/Kg		101	75 - 125
Potassium	1900	1770		mg/Kg		93	75 - 125
Selenium	19.0	17.7		mg/Kg		93	75 - 125
Silver	19.0	19.4		mg/Kg		102	75 - 125
Sodium	1900	1620		mg/Kg		85	75 - 125
Thallium	3.81	4.13		mg/Kg		109	75 - 125
Vanadium	19.0	19.0		mg/Kg		100	75 - 125
Zinc	19.0	17.7		mg/Kg		93	75 - 125

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 680-269348/1-A
Matrix: Solid
Analysis Batch: 269747

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 269348

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	U	0.020	0.0080	mg/Kg		03/14/13 10:22	03/15/13 18:26	1

Lab Sample ID: LCS 680-269348/2-A
Matrix: Solid
Analysis Batch: 269747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269348

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.231	0.249		mg/Kg		107	80 - 120

Lab Sample ID: 680-88289-22 MS
Matrix: Solid
Analysis Batch: 269747

Client Sample ID: DDSB-10-12-14-20130312-01
Prep Type: Total/NA
Prep Batch: 269348

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.020	J	0.108	0.123		mg/Kg	☼	96	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 680-88289-22 MSD — **Client Sample ID: DDSB-10-12-14-20130312-01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 269747 — **Prep Batch: 269348**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.020	J	0.112	0.128		mg/Kg	☼	97	80 - 120	4	20

Lab Sample ID: MB 680-269369/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 269747 — **Prep Batch: 269369**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	U	0.019	0.0079	mg/Kg		03/14/13 11:34	03/15/13 17:27	1

Lab Sample ID: LCS 680-269369/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 269747 — **Prep Batch: 269369**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.231	0.245		mg/Kg		106	80 - 120

Lab Sample ID: 680-88289-23 MS — **Client Sample ID: DDSB-4-0-2-20130313-01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 269747 — **Prep Batch: 269369**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.020	U	0.101	0.112		mg/Kg	☼	111	80 - 120

Lab Sample ID: 680-88289-23 MSD — **Client Sample ID: DDSB-4-0-2-20130313-01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 269747 — **Prep Batch: 269369**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.020	U	0.107	0.118		mg/Kg	☼	111	80 - 120	6	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 680-269364/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 269575 — **Prep Batch: 269364**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.96	U	0.96	0.29	mg/Kg		03/14/13 11:02	03/15/13 12:56	1

Lab Sample ID: LCS 680-269364/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 269575 — **Prep Batch: 269364**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	19.6	18.2		mg/Kg		93	80 - 120

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: MB 680-269510/1-A
Matrix: Solid
Analysis Batch: 269645

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 269510

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.40	U	0.40	0.12	mg/Kg		03/15/13 10:20	03/16/13 11:31	1

Lab Sample ID: LCS 680-269510/2-A
Matrix: Solid
Analysis Batch: 269645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269510

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	8.00	7.37		mg/Kg		92	80 - 120

Lab Sample ID: MB 680-269690/1-A
Matrix: Solid
Analysis Batch: 270007

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 269690

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.99	U	0.99	0.30	mg/Kg		03/18/13 10:55	03/20/13 12:22	1

Lab Sample ID: LCS 680-269690/2-A
Matrix: Solid
Analysis Batch: 270007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269690

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	19.6	19.5		mg/Kg		100	80 - 120

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 680-269322/1-A
Matrix: Solid
Analysis Batch: 269516

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 269322

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.50	U	0.50	0.21	mg/Kg		03/14/13 08:30	03/15/13 09:27	1

Lab Sample ID: LCS 680-269322/2-A
Matrix: Solid
Analysis Batch: 269516

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269322

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	5.00	5.35		mg/Kg		107	75 - 125

Lab Sample ID: 680-88289-17 DU
Matrix: Solid
Analysis Batch: 269516

Client Sample ID: DDSB-1-0-2-20130312-01
Prep Type: Total/NA
Prep Batch: 269322

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Total	0.58	U	0.58	U	mg/Kg	☼	NC	30

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: MB 680-269353/1-A
Matrix: Solid
Analysis Batch: 269516

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 269353

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.50	U	0.50	0.21	mg/Kg		03/14/13 10:30	03/15/13 09:59	1

Lab Sample ID: LCS 680-269353/2-A
Matrix: Solid
Analysis Batch: 269516

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269353

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	5.00	5.30		mg/Kg		106	75 - 125

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Prep Batch: 269683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-15	DDSB-12-0-2-20130312-01	Total/NA	Solid	5035	
680-88289-16	DDSB-12-12-13-20130312-01	Total/NA	Solid	5035	
680-88289-17	DDSB-1-0-2-20130312-01	Total/NA	Solid	5035	
680-88289-18	DDSB-1-12-13-20130312-01	Total/NA	Solid	5035	
680-88289-19	DDSB-11-0-2-20130312-01	Total/NA	Solid	5035	
680-88289-20	DDSB-11-12-14-20130312-01	Total/NA	Solid	5035	
680-88289-21	DDSB-10-0-2-20130312-01	Total/NA	Solid	5035	
680-88289-22	DDSB-10-12-14-20130312-01	Total/NA	Solid	5035	
680-88289-23	DDSB-4-0-2-20130313-01	Total/NA	Solid	5035	
680-88289-24	DDSB-4-12-14-20130313-01	Total/NA	Solid	5035	
680-88289-25	DDSB-3-0-2-20130313-01	Total/NA	Solid	5035	
680-88289-26	DDSB-3-12-14-20130313-01	Total/NA	Solid	5035	
680-88289-27	DDSB-5-0-2-20130313-01	Total/NA	Solid	5035	

Analysis Batch: 269749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-14	TRIP BLANK	Total/NA	Water	8260B	
680-88289-28	TRIP BLANK	Total/NA	Water	8260B	
680-88289-29	TRIP BLANK	Total/NA	Water	8260B	
LCS 680-269749/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-269749/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-269749/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 270013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-15	DDSB-12-0-2-20130312-01	Total/NA	Solid	8260B	269683
680-88289-16	DDSB-12-12-13-20130312-01	Total/NA	Solid	8260B	269683
680-88289-19	DDSB-11-0-2-20130312-01	Total/NA	Solid	8260B	269683
LCS 680-270013/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 680-270013/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 680-270013/7	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 270027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-18	DDSB-1-12-13-20130312-01	Total/NA	Solid	8260B	269683
680-88289-20	DDSB-11-12-14-20130312-01	Total/NA	Solid	8260B	269683
680-88289-25	DDSB-3-0-2-20130313-01	Total/NA	Solid	8260B	269683
680-88289-26	DDSB-3-12-14-20130313-01	Total/NA	Solid	8260B	269683
680-88289-27	DDSB-5-0-2-20130313-01	Total/NA	Solid	8260B	269683
LCS 680-270027/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 680-270027/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 680-270027/7	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 270151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-17	DDSB-1-0-2-20130312-01	Total/NA	Solid	8260B	269683
680-88289-22	DDSB-10-12-14-20130312-01	Total/NA	Solid	8260B	269683
680-88289-23	DDSB-4-0-2-20130313-01	Total/NA	Solid	8260B	269683
680-88289-24	DDSB-4-12-14-20130313-01	Total/NA	Solid	8260B	269683
LCS 680-270151/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 680-270151/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS VOA (Continued)

Analysis Batch: 270151 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-270151/7	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 270405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-21	DDSB-10-0-2-20130312-01	Total/NA	Solid	8260B	269683
LCS 680-270405/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 680-270405/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 680-270405/6	Method Blank	Total/NA	Solid	8260B	

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Prep Batch: 179992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-15	DDSB-12-0-2-20130312-01	Total/NA	Solid	3541	
680-88289-16	DDSB-12-12-13-20130312-01	Total/NA	Solid	3541	
680-88289-17	DDSB-1-0-2-20130312-01	Total/NA	Solid	3541	
680-88289-18	DDSB-1-12-13-20130312-01	Total/NA	Solid	3541	
680-88289-19	DDSB-11-0-2-20130312-01	Total/NA	Solid	3541	
680-88289-20	DDSB-11-12-14-20130312-01	Total/NA	Solid	3541	
680-88289-21	DDSB-10-0-2-20130312-01	Total/NA	Solid	3541	
680-88289-21 - DL	DDSB-10-0-2-20130312-01	Total/NA	Solid	3541	
680-88289-22	DDSB-10-12-14-20130312-01	Total/NA	Solid	3541	
680-88289-23	DDSB-4-0-2-20130313-01	Total/NA	Solid	3541	
680-88289-24	DDSB-4-12-14-20130313-01	Total/NA	Solid	3541	
680-88289-25	DDSB-3-0-2-20130313-01	Total/NA	Solid	3541	
680-88289-26	DDSB-3-12-14-20130313-01	Total/NA	Solid	3541	
680-88289-27	DDSB-5-0-2-20130313-01	Total/NA	Solid	3541	
LCS 500-179992/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-179992/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 180723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-15	DDSB-12-0-2-20130312-01	Total/NA	Solid	8270C	179992
680-88289-16	DDSB-12-12-13-20130312-01	Total/NA	Solid	8270C	179992
680-88289-17	DDSB-1-0-2-20130312-01	Total/NA	Solid	8270C	179992
680-88289-18	DDSB-1-12-13-20130312-01	Total/NA	Solid	8270C	179992
680-88289-19	DDSB-11-0-2-20130312-01	Total/NA	Solid	8270C	179992
680-88289-20	DDSB-11-12-14-20130312-01	Total/NA	Solid	8270C	179992
680-88289-21	DDSB-10-0-2-20130312-01	Total/NA	Solid	8270C	179992
680-88289-22	DDSB-10-12-14-20130312-01	Total/NA	Solid	8270C	179992
LCS 500-179992/2-A	Lab Control Sample	Total/NA	Solid	8270C	179992
MB 500-179992/1-A	Method Blank	Total/NA	Solid	8270C	179992

Analysis Batch: 180871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-21 - DL	DDSB-10-0-2-20130312-01	Total/NA	Solid	8270C	179992
680-88289-23	DDSB-4-0-2-20130313-01	Total/NA	Solid	8270C	179992
680-88289-24	DDSB-4-12-14-20130313-01	Total/NA	Solid	8270C	179992
680-88289-25	DDSB-3-0-2-20130313-01	Total/NA	Solid	8270C	179992
680-88289-26	DDSB-3-12-14-20130313-01	Total/NA	Solid	8270C	179992

GC/MS Semi VOA (Continued)

Analysis Batch: 180871 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-27	DDSB-5-0-2-20130313-01	Total/NA	Solid	8270C	179992

GC Semi VOA

Prep Batch: 100242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-15	DDSB-12-0-2-20130312-01	Total/NA	Solid	3550B	
680-88289-16	DDSB-12-12-13-20130312-01	Total/NA	Solid	3550B	
680-88289-17	DDSB-1-0-2-20130312-01	Total/NA	Solid	3550B	
680-88289-18	DDSB-1-12-13-20130312-01	Total/NA	Solid	3550B	
680-88289-19	DDSB-11-0-2-20130312-01	Total/NA	Solid	3550B	
680-88289-20	DDSB-11-12-14-20130312-01	Total/NA	Solid	3550B	
680-88289-21	DDSB-10-0-2-20130312-01	Total/NA	Solid	3550B	
680-88289-22	DDSB-10-12-14-20130312-01	Total/NA	Solid	3550B	
680-88289-23	DDSB-4-0-2-20130313-01	Total/NA	Solid	3550B	
680-88289-24	DDSB-4-12-14-20130313-01	Total/NA	Solid	3550B	
680-88289-25	DDSB-3-0-2-20130313-01	Total/NA	Solid	3550B	
680-88289-26	DDSB-3-12-14-20130313-01	Total/NA	Solid	3550B	
680-88289-27	DDSB-5-0-2-20130313-01	Total/NA	Solid	3550B	
LCS 640-100242/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 640-100242/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	
MB 640-100242/1-A	Method Blank	Total/NA	Solid	3550B	

Analysis Batch: 100656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 640-100242/2-A	Lab Control Sample	Total/NA	Solid	8141A	100242
LCSD 640-100242/3-A	Lab Control Sample Dup	Total/NA	Solid	8141A	100242
MB 640-100242/1-A	Method Blank	Total/NA	Solid	8141A	100242

Analysis Batch: 100667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-15	DDSB-12-0-2-20130312-01	Total/NA	Solid	8141A	100242

Analysis Batch: 100675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-16	DDSB-12-12-13-20130312-01	Total/NA	Solid	8141A	100242
680-88289-17	DDSB-1-0-2-20130312-01	Total/NA	Solid	8141A	100242
680-88289-18	DDSB-1-12-13-20130312-01	Total/NA	Solid	8141A	100242
680-88289-19	DDSB-11-0-2-20130312-01	Total/NA	Solid	8141A	100242
680-88289-20	DDSB-11-12-14-20130312-01	Total/NA	Solid	8141A	100242
680-88289-21	DDSB-10-0-2-20130312-01	Total/NA	Solid	8141A	100242
680-88289-22	DDSB-10-12-14-20130312-01	Total/NA	Solid	8141A	100242
680-88289-23	DDSB-4-0-2-20130313-01	Total/NA	Solid	8141A	100242
680-88289-24	DDSB-4-12-14-20130313-01	Total/NA	Solid	8141A	100242
680-88289-25	DDSB-3-0-2-20130313-01	Total/NA	Solid	8141A	100242
680-88289-26	DDSB-3-12-14-20130313-01	Total/NA	Solid	8141A	100242
680-88289-27	DDSB-5-0-2-20130313-01	Total/NA	Solid	8141A	100242

GC Semi VOA (Continued)

Prep Batch: 179990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-15	DDSB-12-0-2-20130312-01	Total/NA	Solid	3541	
680-88289-16	DDSB-12-12-13-20130312-01	Total/NA	Solid	3541	
680-88289-17	DDSB-1-0-2-20130312-01	Total/NA	Solid	3541	
680-88289-18	DDSB-1-12-13-20130312-01	Total/NA	Solid	3541	
680-88289-19	DDSB-11-0-2-20130312-01	Total/NA	Solid	3541	
680-88289-20	DDSB-11-12-14-20130312-01	Total/NA	Solid	3541	
680-88289-21	DDSB-10-0-2-20130312-01	Total/NA	Solid	3541	
680-88289-22	DDSB-10-12-14-20130312-01	Total/NA	Solid	3541	
680-88289-23	DDSB-4-0-2-20130313-01	Total/NA	Solid	3541	
680-88289-24	DDSB-4-12-14-20130313-01	Total/NA	Solid	3541	
680-88289-25	DDSB-3-0-2-20130313-01	Total/NA	Solid	3541	
680-88289-26	DDSB-3-12-14-20130313-01	Total/NA	Solid	3541	
680-88289-27	DDSB-5-0-2-20130313-01	Total/NA	Solid	3541	
LCS 500-179990/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-179990/3-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-179990/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 180342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-15	DDSB-12-0-2-20130312-01	Total/NA	Solid	8082	179990
680-88289-16	DDSB-12-12-13-20130312-01	Total/NA	Solid	8082	179990
680-88289-17	DDSB-1-0-2-20130312-01	Total/NA	Solid	8082	179990
680-88289-18	DDSB-1-12-13-20130312-01	Total/NA	Solid	8082	179990
680-88289-19	DDSB-11-0-2-20130312-01	Total/NA	Solid	8082	179990
680-88289-20	DDSB-11-12-14-20130312-01	Total/NA	Solid	8082	179990
680-88289-21	DDSB-10-0-2-20130312-01	Total/NA	Solid	8082	179990
680-88289-22	DDSB-10-12-14-20130312-01	Total/NA	Solid	8082	179990
680-88289-23	DDSB-4-0-2-20130313-01	Total/NA	Solid	8082	179990
680-88289-24	DDSB-4-12-14-20130313-01	Total/NA	Solid	8082	179990
680-88289-25	DDSB-3-0-2-20130313-01	Total/NA	Solid	8082	179990
680-88289-26	DDSB-3-12-14-20130313-01	Total/NA	Solid	8082	179990
680-88289-27	DDSB-5-0-2-20130313-01	Total/NA	Solid	8082	179990
LCS 500-179990/3-A	Lab Control Sample	Total/NA	Solid	8082	179990
MB 500-179990/1-A	Method Blank	Total/NA	Solid	8082	179990

Analysis Batch: 180839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-15	DDSB-12-0-2-20130312-01	Total/NA	Solid	8081A	179990
680-88289-16	DDSB-12-12-13-20130312-01	Total/NA	Solid	8081A	179990
680-88289-17	DDSB-1-0-2-20130312-01	Total/NA	Solid	8081A	179990
680-88289-18	DDSB-1-12-13-20130312-01	Total/NA	Solid	8081A	179990
680-88289-19	DDSB-11-0-2-20130312-01	Total/NA	Solid	8081A	179990
680-88289-20	DDSB-11-12-14-20130312-01	Total/NA	Solid	8081A	179990
680-88289-21	DDSB-10-0-2-20130312-01	Total/NA	Solid	8081A	179990
680-88289-22	DDSB-10-12-14-20130312-01	Total/NA	Solid	8081A	179990
680-88289-23	DDSB-4-0-2-20130313-01	Total/NA	Solid	8081A	179990
680-88289-24	DDSB-4-12-14-20130313-01	Total/NA	Solid	8081A	179990
680-88289-25	DDSB-3-0-2-20130313-01	Total/NA	Solid	8081A	179990
680-88289-26	DDSB-3-12-14-20130313-01	Total/NA	Solid	8081A	179990
680-88289-27	DDSB-5-0-2-20130313-01	Total/NA	Solid	8081A	179990
LCS 500-179990/2-A	Lab Control Sample	Total/NA	Solid	8081A	179990

GC Semi VOA (Continued)

Analysis Batch: 180839 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-179990/1-A	Method Blank	Total/NA	Solid	8081A	179990

Metals

Prep Batch: 269348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-15	DDSB-12-0-2-20130312-01	Total/NA	Solid	7471A	
680-88289-16	DDSB-12-12-13-20130312-01	Total/NA	Solid	7471A	
680-88289-17	DDSB-1-0-2-20130312-01	Total/NA	Solid	7471A	
680-88289-18	DDSB-1-12-13-20130312-01	Total/NA	Solid	7471A	
680-88289-19	DDSB-11-0-2-20130312-01	Total/NA	Solid	7471A	
680-88289-20	DDSB-11-12-14-20130312-01	Total/NA	Solid	7471A	
680-88289-21	DDSB-10-0-2-20130312-01	Total/NA	Solid	7471A	
680-88289-22	DDSB-10-12-14-20130312-01	Total/NA	Solid	7471A	
680-88289-22 MS	DDSB-10-12-14-20130312-01	Total/NA	Solid	7471A	
680-88289-22 MSD	DDSB-10-12-14-20130312-01	Total/NA	Solid	7471A	
LCS 680-269348/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 680-269348/1-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 269369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-23	DDSB-4-0-2-20130313-01	Total/NA	Solid	7471A	
680-88289-23 MS	DDSB-4-0-2-20130313-01	Total/NA	Solid	7471A	
680-88289-23 MSD	DDSB-4-0-2-20130313-01	Total/NA	Solid	7471A	
680-88289-24	DDSB-4-12-14-20130313-01	Total/NA	Solid	7471A	
680-88289-25	DDSB-3-0-2-20130313-01	Total/NA	Solid	7471A	
680-88289-26	DDSB-3-12-14-20130313-01	Total/NA	Solid	7471A	
680-88289-27	DDSB-5-0-2-20130313-01	Total/NA	Solid	7471A	
LCS 680-269369/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 680-269369/1-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 269487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-15	DDSB-12-0-2-20130312-01	Total/NA	Solid	3050B	
680-88289-16	DDSB-12-12-13-20130312-01	Total/NA	Solid	3050B	
680-88289-17	DDSB-1-0-2-20130312-01	Total/NA	Solid	3050B	
680-88289-18	DDSB-1-12-13-20130312-01	Total/NA	Solid	3050B	
680-88289-19	DDSB-11-0-2-20130312-01	Total/NA	Solid	3050B	
680-88289-20	DDSB-11-12-14-20130312-01	Total/NA	Solid	3050B	
680-88289-21	DDSB-10-0-2-20130312-01	Total/NA	Solid	3050B	
680-88289-22	DDSB-10-12-14-20130312-01	Total/NA	Solid	3050B	
LCS 680-269487/3-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 680-269487/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 269660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-23	DDSB-4-0-2-20130313-01	Total/NA	Solid	3050B	
680-88289-24	DDSB-4-12-14-20130313-01	Total/NA	Solid	3050B	
680-88289-25	DDSB-3-0-2-20130313-01	Total/NA	Solid	3050B	
680-88289-26	DDSB-3-12-14-20130313-01	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 269660 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-27	DDSB-5-0-2-20130313-01	Total/NA	Solid	3050B	
LCS 680-269660/3-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 680-269660/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 269747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-15	DDSB-12-0-2-20130312-01	Total/NA	Solid	7471A	269348
680-88289-16	DDSB-12-12-13-20130312-01	Total/NA	Solid	7471A	269348
680-88289-17	DDSB-1-0-2-20130312-01	Total/NA	Solid	7471A	269348
680-88289-18	DDSB-1-12-13-20130312-01	Total/NA	Solid	7471A	269348
680-88289-19	DDSB-11-0-2-20130312-01	Total/NA	Solid	7471A	269348
680-88289-20	DDSB-11-12-14-20130312-01	Total/NA	Solid	7471A	269348
680-88289-21	DDSB-10-0-2-20130312-01	Total/NA	Solid	7471A	269348
680-88289-22	DDSB-10-12-14-20130312-01	Total/NA	Solid	7471A	269348
680-88289-22 MS	DDSB-10-12-14-20130312-01	Total/NA	Solid	7471A	269348
680-88289-22 MSD	DDSB-10-12-14-20130312-01	Total/NA	Solid	7471A	269348
680-88289-23	DDSB-4-0-2-20130313-01	Total/NA	Solid	7471A	269369
680-88289-23 MS	DDSB-4-0-2-20130313-01	Total/NA	Solid	7471A	269369
680-88289-23 MSD	DDSB-4-0-2-20130313-01	Total/NA	Solid	7471A	269369
680-88289-24	DDSB-4-12-14-20130313-01	Total/NA	Solid	7471A	269369
680-88289-25	DDSB-3-0-2-20130313-01	Total/NA	Solid	7471A	269369
680-88289-26	DDSB-3-12-14-20130313-01	Total/NA	Solid	7471A	269369
680-88289-27	DDSB-5-0-2-20130313-01	Total/NA	Solid	7471A	269369
LCS 680-269348/2-A	Lab Control Sample	Total/NA	Solid	7471A	269348
LCS 680-269369/2-A	Lab Control Sample	Total/NA	Solid	7471A	269369
MB 680-269348/1-A	Method Blank	Total/NA	Solid	7471A	269348
MB 680-269369/1-A	Method Blank	Total/NA	Solid	7471A	269369

Analysis Batch: 269937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-15	DDSB-12-0-2-20130312-01	Total/NA	Solid	6010B	269487
680-88289-16	DDSB-12-12-13-20130312-01	Total/NA	Solid	6010B	269487
680-88289-17	DDSB-1-0-2-20130312-01	Total/NA	Solid	6010B	269487
680-88289-18	DDSB-1-12-13-20130312-01	Total/NA	Solid	6010B	269487
680-88289-19	DDSB-11-0-2-20130312-01	Total/NA	Solid	6010B	269487
680-88289-20	DDSB-11-12-14-20130312-01	Total/NA	Solid	6010B	269487
680-88289-21	DDSB-10-0-2-20130312-01	Total/NA	Solid	6010B	269487
680-88289-22	DDSB-10-12-14-20130312-01	Total/NA	Solid	6010B	269487
680-88289-23	DDSB-4-0-2-20130313-01	Total/NA	Solid	6010B	269660
680-88289-24	DDSB-4-12-14-20130313-01	Total/NA	Solid	6010B	269660
680-88289-25	DDSB-3-0-2-20130313-01	Total/NA	Solid	6010B	269660
680-88289-26	DDSB-3-12-14-20130313-01	Total/NA	Solid	6010B	269660
680-88289-27	DDSB-5-0-2-20130313-01	Total/NA	Solid	6010B	269660
LCS 680-269487/3-A	Lab Control Sample	Total/NA	Solid	6010B	269487
LCS 680-269660/3-A	Lab Control Sample	Total/NA	Solid	6010B	269660
MB 680-269487/1-A	Method Blank	Total/NA	Solid	6010B	269487
MB 680-269660/1-A	Method Blank	Total/NA	Solid	6010B	269660

General Chemistry

Prep Batch: 269322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-15	DDSB-12-0-2-20130312-01	Total/NA	Solid	9012A	
680-88289-16	DDSB-12-12-13-20130312-01	Total/NA	Solid	9012A	
680-88289-17	DDSB-1-0-2-20130312-01	Total/NA	Solid	9012A	
680-88289-17 DU	DDSB-1-0-2-20130312-01	Total/NA	Solid	9012A	
680-88289-18	DDSB-1-12-13-20130312-01	Total/NA	Solid	9012A	
680-88289-19	DDSB-11-0-2-20130312-01	Total/NA	Solid	9012A	
680-88289-20	DDSB-11-12-14-20130312-01	Total/NA	Solid	9012A	
680-88289-21	DDSB-10-0-2-20130312-01	Total/NA	Solid	9012A	
680-88289-22	DDSB-10-12-14-20130312-01	Total/NA	Solid	9012A	
LCS 680-269322/2-A	Lab Control Sample	Total/NA	Solid	9012A	
MB 680-269322/1-A	Method Blank	Total/NA	Solid	9012A	

Prep Batch: 269353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-23	DDSB-4-0-2-20130313-01	Total/NA	Solid	9012A	
680-88289-24	DDSB-4-12-14-20130313-01	Total/NA	Solid	9012A	
680-88289-25	DDSB-3-0-2-20130313-01	Total/NA	Solid	9012A	
680-88289-26	DDSB-3-12-14-20130313-01	Total/NA	Solid	9012A	
680-88289-27	DDSB-5-0-2-20130313-01	Total/NA	Solid	9012A	
LCS 680-269353/2-A	Lab Control Sample	Total/NA	Solid	9012A	
MB 680-269353/1-A	Method Blank	Total/NA	Solid	9012A	

Prep Batch: 269364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-15	DDSB-12-0-2-20130312-01	Total/NA	Solid	3060A	
680-88289-16	DDSB-12-12-13-20130312-01	Total/NA	Solid	3060A	
680-88289-17	DDSB-1-0-2-20130312-01	Total/NA	Solid	3060A	
680-88289-18	DDSB-1-12-13-20130312-01	Total/NA	Solid	3060A	
680-88289-19	DDSB-11-0-2-20130312-01	Total/NA	Solid	3060A	
680-88289-20	DDSB-11-12-14-20130312-01	Total/NA	Solid	3060A	
680-88289-21	DDSB-10-0-2-20130312-01	Total/NA	Solid	3060A	
LCS 680-269364/2-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 680-269364/1-A	Method Blank	Total/NA	Solid	3060A	

Prep Batch: 269510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-22	DDSB-10-12-14-20130312-01	Total/NA	Solid	3060A	
680-88289-24	DDSB-4-12-14-20130313-01	Total/NA	Solid	3060A	
680-88289-26	DDSB-3-12-14-20130313-01	Total/NA	Solid	3060A	
680-88289-27	DDSB-5-0-2-20130313-01	Total/NA	Solid	3060A	
LCS 680-269510/2-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 680-269510/1-A	Method Blank	Total/NA	Solid	3060A	

Analysis Batch: 269516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-15	DDSB-12-0-2-20130312-01	Total/NA	Solid	9012A	269322
680-88289-16	DDSB-12-12-13-20130312-01	Total/NA	Solid	9012A	269322
680-88289-17	DDSB-1-0-2-20130312-01	Total/NA	Solid	9012A	269322
680-88289-17 DU	DDSB-1-0-2-20130312-01	Total/NA	Solid	9012A	269322
680-88289-18	DDSB-1-12-13-20130312-01	Total/NA	Solid	9012A	269322
680-88289-19	DDSB-11-0-2-20130312-01	Total/NA	Solid	9012A	269322

General Chemistry (Continued)

Analysis Batch: 269516 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-20	DDSB-11-12-14-20130312-01	Total/NA	Solid	9012A	269322
680-88289-21	DDSB-10-0-2-20130312-01	Total/NA	Solid	9012A	269322
680-88289-22	DDSB-10-12-14-20130312-01	Total/NA	Solid	9012A	269322
680-88289-23	DDSB-4-0-2-20130313-01	Total/NA	Solid	9012A	269353
680-88289-24	DDSB-4-12-14-20130313-01	Total/NA	Solid	9012A	269353
680-88289-25	DDSB-3-0-2-20130313-01	Total/NA	Solid	9012A	269353
680-88289-26	DDSB-3-12-14-20130313-01	Total/NA	Solid	9012A	269353
680-88289-27	DDSB-5-0-2-20130313-01	Total/NA	Solid	9012A	269353
LCS 680-269322/2-A	Lab Control Sample	Total/NA	Solid	9012A	269322
LCS 680-269353/2-A	Lab Control Sample	Total/NA	Solid	9012A	269353
MB 680-269322/1-A	Method Blank	Total/NA	Solid	9012A	269322
MB 680-269353/1-A	Method Blank	Total/NA	Solid	9012A	269353

Analysis Batch: 269575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-15	DDSB-12-0-2-20130312-01	Total/NA	Solid	7196A	269364
680-88289-16	DDSB-12-12-13-20130312-01	Total/NA	Solid	7196A	269364
680-88289-17	DDSB-1-0-2-20130312-01	Total/NA	Solid	7196A	269364
680-88289-18	DDSB-1-12-13-20130312-01	Total/NA	Solid	7196A	269364
680-88289-19	DDSB-11-0-2-20130312-01	Total/NA	Solid	7196A	269364
680-88289-20	DDSB-11-12-14-20130312-01	Total/NA	Solid	7196A	269364
680-88289-21	DDSB-10-0-2-20130312-01	Total/NA	Solid	7196A	269364
LCS 680-269364/2-A	Lab Control Sample	Total/NA	Solid	7196A	269364
MB 680-269364/1-A	Method Blank	Total/NA	Solid	7196A	269364

Analysis Batch: 269645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-22	DDSB-10-12-14-20130312-01	Total/NA	Solid	7196A	269510
680-88289-24	DDSB-4-12-14-20130313-01	Total/NA	Solid	7196A	269510
680-88289-26	DDSB-3-12-14-20130313-01	Total/NA	Solid	7196A	269510
680-88289-27	DDSB-5-0-2-20130313-01	Total/NA	Solid	7196A	269510
LCS 680-269510/2-A	Lab Control Sample	Total/NA	Solid	7196A	269510
MB 680-269510/1-A	Method Blank	Total/NA	Solid	7196A	269510

Prep Batch: 269690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-23	DDSB-4-0-2-20130313-01	Total/NA	Solid	3060A	
680-88289-25	DDSB-3-0-2-20130313-01	Total/NA	Solid	3060A	
LCS 680-269690/2-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 680-269690/1-A	Method Blank	Total/NA	Solid	3060A	

Analysis Batch: 270007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88289-23	DDSB-4-0-2-20130313-01	Total/NA	Solid	7196A	269690
680-88289-25	DDSB-3-0-2-20130313-01	Total/NA	Solid	7196A	269690
LCS 680-269690/2-A	Lab Control Sample	Total/NA	Solid	7196A	269690
MB 680-269690/1-A	Method Blank	Total/NA	Solid	7196A	269690

Client Sample ID: TRIP BLANK

Lab Sample ID: 680-88289-14

Date Collected: 03/13/13 00:00
Matrix: Water
Date Received: 03/13/13 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	269749	03/18/13 16:18	AJMC	TAL SAV

Client Sample ID: DDSB-12-0-2-20130312-01

Lab Sample ID: 680-88289-15

Date Collected: 03/12/13 13:10
Matrix: Solid
Date Received: 03/13/13 15:50
Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.504 g	5 mL	269683	03/18/13 10:38	FS	TAL SAV
Total/NA	Analysis	8260B		40			270013	03/19/13 15:06	RB	TAL SAV
Total/NA	Prep	3541			15.2582 g	0.5 mL	179992	03/15/13 07:34	STW	TAL CHI
Total/NA	Analysis	8270C		1			180723	03/22/13 23:18	GES	TAL CHI
Total/NA	Prep	3541			15.2128 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 09:49	GMO	TAL CHI
Total/NA	Prep	3541			15.2128 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8081A		10			180839	03/26/13 09:17	PG	TAL CHI
Total/NA	Prep	3550B			00030.05 g	10.0 mL	100242	03/16/13 09:29	QC	TAL TAL
Total/NA	Analysis	8141A		1			100667	04/01/13 15:15	MLT	TAL TAL
Total/NA	Prep	3550B			00030.05 g	10.0 mL	100242	03/16/13 09:29	QC	TAL TAL
Total/NA	Analysis	8141A		1			100667	04/01/13 15:15	MLT	TAL TAL
Total/NA	Prep	7471A			0.55 g	50 mL	269348	03/14/13 10:22	UU	TAL SAV
Total/NA	Analysis	7471A		1			269747	03/15/13 19:05	BCB	TAL SAV
Total/NA	Prep	3050B			1.15 g	100 mL	269487	03/15/13 09:28	BB	TAL SAV
Total/NA	Analysis	6010B		1			269937	03/19/13 03:56	BCB	TAL SAV
Total/NA	Prep	9012A			1.00 g	50 mL	269322	03/14/13 08:30	DAM	TAL SAV
Total/NA	Analysis	9012A		1			269516	03/15/13 09:47	DAM	TAL SAV
Total/NA	Prep	3060A			1.09 g	100 mL	269364	03/14/13 11:02	BB	TAL SAV
Total/NA	Analysis	7196A		1			269575	03/15/13 12:51	RW	TAL SAV

Client Sample ID: DDSB-12-12-13-20130312-01

Lab Sample ID: 680-88289-16

Date Collected: 03/12/13 13:30
Matrix: Solid
Date Received: 03/13/13 15:50
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.21 g	5 mL	269683	03/18/13 10:38	FS	TAL SAV
Total/NA	Analysis	8260B		40			270013	03/19/13 15:28	RB	TAL SAV
Total/NA	Prep	3541			15.4773 g	0.5 mL	179992	03/15/13 07:34	STW	TAL CHI
Total/NA	Analysis	8270C		1			180723	03/22/13 23:36	GES	TAL CHI
Total/NA	Prep	3541			15.4504 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 10:03	GMO	TAL CHI
Total/NA	Prep	3541			15.4504 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8081A		1			180839	03/26/13 09:38	PG	TAL CHI
Total/NA	Prep	3550B			00030.09 g	10.0 mL	100242	03/16/13 09:29	QC	TAL TAL
Total/NA	Analysis	8141A		1			100675	04/02/13 08:51	MLT	TAL TAL

Lab Chronicle

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-12-12-13-20130312-01

Lab Sample ID: 680-88289-16

Date Collected: 03/12/13 13:30
Matrix: Solid
Date Received: 03/13/13 15:50
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			0.59 g	50 mL	269348	03/14/13 10:22	UU	TAL SAV
Total/NA	Analysis	7471A		1			269747	03/15/13 19:08	BCB	TAL SAV
Total/NA	Prep	3050B			1.07 g	100 mL	269487	03/15/13 09:28	BB	TAL SAV
Total/NA	Analysis	6010B		1			269937	03/19/13 04:12	BCB	TAL SAV
Total/NA	Prep	9012A			1.02 g	50 mL	269322	03/14/13 08:30	DAM	TAL SAV
Total/NA	Analysis	9012A		1			269516	03/15/13 09:48	DAM	TAL SAV
Total/NA	Prep	3060A			1.15 g	100 mL	269364	03/14/13 11:02	BB	TAL SAV
Total/NA	Analysis	7196A		1			269575	03/15/13 12:51	RW	TAL SAV

Client Sample ID: DDSB-1-0-2-20130312-01

Lab Sample ID: 680-88289-17

Date Collected: 03/12/13 14:15
Matrix: Solid
Date Received: 03/13/13 15:50
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.323 g	5 mL	269683	03/18/13 10:38	FS	TAL SAV
Total/NA	Analysis	8260B		1			270151	03/20/13 21:50	RB	TAL SAV
Total/NA	Prep	3541			15.3441 g	0.5 mL	179992	03/15/13 07:34	STW	TAL CHI
Total/NA	Analysis	8270C		1			180723	03/22/13 23:55	GES	TAL CHI
Total/NA	Prep	3541			15.4591 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 10:17	GMO	TAL CHI
Total/NA	Prep	3541			15.4591 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8081A		1			180839	03/26/13 09:58	PG	TAL CHI
Total/NA	Prep	3550B			00030.55 g	10.0 mL	100242	03/16/13 09:29	QC	TAL TAL
Total/NA	Analysis	8141A		1			100675	04/02/13 09:06	MLT	TAL TAL
Total/NA	Prep	7471A			0.59 g	50 mL	269348	03/14/13 10:22	UU	TAL SAV
Total/NA	Analysis	7471A		1			269747	03/15/13 19:15	BCB	TAL SAV
Total/NA	Prep	3050B			1.19 g	100 mL	269487	03/15/13 09:28	BB	TAL SAV
Total/NA	Analysis	6010B		1			269937	03/19/13 04:18	BCB	TAL SAV
Total/NA	Prep	9012A			1.01 g	50 mL	269322	03/14/13 08:30	DAM	TAL SAV
Total/NA	Analysis	9012A		1			269516	03/15/13 09:49	DAM	TAL SAV
Total/NA	Prep	3060A			1.05 g	100 mL	269364	03/14/13 11:02	BB	TAL SAV
Total/NA	Analysis	7196A		1			269575	03/15/13 12:51	RW	TAL SAV

Client Sample ID: DDSB-1-12-13-20130312-01

Lab Sample ID: 680-88289-18

Date Collected: 03/12/13 14:30
Matrix: Solid
Date Received: 03/13/13 15:50
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.586 g	5 mL	269683	03/18/13 10:38	FS	TAL SAV
Total/NA	Analysis	8260B		1			270027	03/19/13 19:14	RB	TAL SAV
Total/NA	Prep	3541			15.0939 g	0.5 mL	179992	03/15/13 07:34	STW	TAL CHI
Total/NA	Analysis	8270C		1			180723	03/23/13 00:13	GES	TAL CHI
Total/NA	Prep	3541			15.2974 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI

Lab Chronicle

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-1-12-13-20130312-01

Lab Sample ID: 680-88289-18

Date Collected: 03/12/13 14:30
Date Received: 03/13/13 15:50

Matrix: Solid
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082		1			180342	03/20/13 10:31	GMO	TAL CHI
Total/NA	Prep	3541			15.2974 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8081A		1			180839	03/26/13 10:19	PG	TAL CHI
Total/NA	Prep	3550B			00030.56 g	10.0 mL	100242	03/16/13 09:29	QC	TAL TAL
Total/NA	Analysis	8141A		1			100675	04/02/13 09:21	MLT	TAL TAL
Total/NA	Prep	7471A			0.57 g	50 mL	269348	03/14/13 10:22	UU	TAL SAV
Total/NA	Analysis	7471A		1			269747	03/15/13 19:18	BCB	TAL SAV
Total/NA	Prep	3050B			1.15 g	100 mL	269487	03/15/13 09:28	BB	TAL SAV
Total/NA	Analysis	6010B		1			269937	03/19/13 04:23	BCB	TAL SAV
Total/NA	Prep	9012A			1.05 g	50 mL	269322	03/14/13 08:30	DAM	TAL SAV
Total/NA	Analysis	9012A		1			269516	03/15/13 09:54	DAM	TAL SAV
Total/NA	Prep	3060A			1.08 g	100 mL	269364	03/14/13 11:02	BB	TAL SAV
Total/NA	Analysis	7196A		1			269575	03/15/13 12:56	RW	TAL SAV

Client Sample ID: DDSB-11-0-2-20130312-01

Lab Sample ID: 680-88289-19

Date Collected: 03/12/13 15:00
Date Received: 03/13/13 15:50

Matrix: Solid
Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.764 g	5 mL	269683	03/18/13 10:38	FS	TAL SAV
Total/NA	Analysis	8260B		40			270013	03/19/13 15:51	RB	TAL SAV
Total/NA	Prep	3541			15.1729 g	0.5 mL	179992	03/15/13 07:34	STW	TAL CHI
Total/NA	Analysis	8270C		1			180723	03/23/13 00:32	GES	TAL CHI
Total/NA	Prep	3541			15.4755 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 11:00	GMO	TAL CHI
Total/NA	Prep	3541			15.4755 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 11:00	GMO	TAL CHI
Total/NA	Prep	3541			15.4755 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8081A		10			180839	03/26/13 10:39	PG	TAL CHI
Total/NA	Prep	3550B			00030.10 g	10.0 mL	100242	03/16/13 09:29	QC	TAL TAL
Total/NA	Analysis	8141A		1			100675	04/02/13 09:36	MLT	TAL TAL
Total/NA	Prep	7471A			0.55 g	50 mL	269348	03/14/13 10:22	UU	TAL SAV
Total/NA	Analysis	7471A		5			269747	03/16/13 09:36	BCB	TAL SAV
Total/NA	Prep	3050B			1.05 g	100 mL	269487	03/15/13 09:28	BB	TAL SAV
Total/NA	Analysis	6010B		1			269937	03/19/13 04:29	BCB	TAL SAV
Total/NA	Prep	9012A			1.05 g	50 mL	269322	03/14/13 08:30	DAM	TAL SAV
Total/NA	Analysis	9012A		1			269516	03/15/13 09:55	DAM	TAL SAV
Total/NA	Prep	3060A			1.14 g	100 mL	269364	03/14/13 11:02	BB	TAL SAV
Total/NA	Analysis	7196A		1			269575	03/15/13 12:56	RW	TAL SAV

Lab Chronicle

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-11-12-14-20130312-01

Lab Sample ID: 680-88289-20

Date Collected: 03/12/13 15:15
Matrix: Solid
Date Received: 03/13/13 15:50
Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.753 g	5 mL	269683	03/18/13 10:38	FS	TAL SAV
Total/NA	Analysis	8260B		1			270027	03/19/13 19:37	RB	TAL SAV
Total/NA	Prep	3541			15.0872 g	0.5 mL	179992	03/15/13 07:34	STW	TAL CHI
Total/NA	Analysis	8270C		1			180723	03/23/13 00:50	GES	TAL CHI
Total/NA	Prep	3541			15.3926 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 11:14	GMO	TAL CHI
Total/NA	Prep	3541			15.3926 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8081A		1			180839	03/26/13 12:43	PG	TAL CHI
Total/NA	Prep	3550B			00030.07 g	10.0 mL	100242	03/16/13 09:29	QC	TAL TAL
Total/NA	Analysis	8141A		1			100675	04/02/13 09:51	MLT	TAL TAL
Total/NA	Prep	7471A			0.57 g	50 mL	269348	03/14/13 10:22	UU	TAL SAV
Total/NA	Analysis	7471A		1			269747	03/15/13 19:22	BCB	TAL SAV
Total/NA	Prep	3050B			1.00 g	100 mL	269487	03/15/13 09:28	BB	TAL SAV
Total/NA	Analysis	6010B		1			269937	03/19/13 04:34	BCB	TAL SAV
Total/NA	Prep	9012A			1.05 g	50 mL	269322	03/14/13 08:30	DAM	TAL SAV
Total/NA	Analysis	9012A		1			269516	03/15/13 09:56	DAM	TAL SAV
Total/NA	Prep	3060A			1.14 g	100 mL	269364	03/14/13 11:02	BB	TAL SAV
Total/NA	Analysis	7196A		1			269575	03/15/13 12:56	RW	TAL SAV

Client Sample ID: DDSB-10-0-2-20130312-01

Lab Sample ID: 680-88289-21

Date Collected: 03/12/13 16:00
Matrix: Solid
Date Received: 03/13/13 15:50
Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.586 g	5 mL	269683	03/18/13 10:38	FS	TAL SAV
Total/NA	Analysis	8260B		200			270405	03/22/13 15:54	RB	TAL SAV
Total/NA	Prep	3541			15.6184 g	0.5 mL	179992	03/15/13 07:34	STW	TAL CHI
Total/NA	Analysis	8270C		1			180723	03/23/13 01:09	GES	TAL CHI
Total/NA	Prep	3541	DL		15.6184 g	0.5 mL	179992	03/15/13 07:34	STW	TAL CHI
Total/NA	Analysis	8270C	DL	5			180871	03/25/13 17:04	KDL	TAL CHI
Total/NA	Prep	3541			15.2116 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 11:28	GMO	TAL CHI
Total/NA	Prep	3541			15.2116 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8081A		10			180839	03/26/13 13:04	PG	TAL CHI
Total/NA	Prep	3550B			00030.05 g	10.0 mL	100242	03/16/13 09:29	QC	TAL TAL
Total/NA	Analysis	8141A		1			100675	04/02/13 10:05	MLT	TAL TAL
Total/NA	Prep	7471A			0.58 g	50 mL	269348	03/14/13 10:22	UU	TAL SAV
Total/NA	Analysis	7471A		1			269747	03/15/13 19:25	BCB	TAL SAV
Total/NA	Prep	3050B			1.04 g	100 mL	269487	03/15/13 09:28	BB	TAL SAV
Total/NA	Analysis	6010B		1			269937	03/19/13 04:40	BCB	TAL SAV
Total/NA	Prep	9012A			1.01 g	50 mL	269322	03/14/13 08:30	DAM	TAL SAV
Total/NA	Analysis	9012A		1			269516	03/15/13 09:57	DAM	TAL SAV
Total/NA	Prep	3060A			1.19 g	100 mL	269364	03/14/13 11:02	BB	TAL SAV
Total/NA	Analysis	7196A		1			269575	03/15/13 12:56	RW	TAL SAV

Client Sample ID: DDSB-10-12-14-20130312-01

Lab Sample ID: 680-88289-22

Date Collected: 03/12/13 16:15
Matrix: Solid
Date Received: 03/13/13 15:50
Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.576 g	5 mL	269683	03/18/13 10:38	FS	TAL SAV
Total/NA	Analysis	8260B		1			270151	03/20/13 20:20	RB	TAL SAV
Total/NA	Prep	3541			15.2727 g	0.5 mL	179992	03/15/13 07:34	STW	TAL CHI
Total/NA	Analysis	8270C		1			180723	03/23/13 01:27	GES	TAL CHI
Total/NA	Prep	3541			15.1690 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 11:42	GMO	TAL CHI
Total/NA	Prep	3541			15.1690 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8081A		1			180839	03/26/13 13:24	PG	TAL CHI
Total/NA	Prep	3550B			00030.58 g	10.0 mL	100242	03/16/13 09:29	QC	TAL TAL
Total/NA	Analysis	8141A		1			100675	04/02/13 10:20	MLT	TAL TAL
Total/NA	Prep	7471A			0.55 g	50 mL	269348	03/14/13 10:22	UU	TAL SAV
Total/NA	Analysis	7471A		1			269747	03/15/13 19:27	BCB	TAL SAV
Total/NA	Prep	3050B			1.11 g	100 mL	269487	03/15/13 09:28	BB	TAL SAV
Total/NA	Analysis	6010B		1			269937	03/19/13 04:45	BCB	TAL SAV
Total/NA	Prep	9012A			1.02 g	50 mL	269322	03/14/13 08:30	DAM	TAL SAV
Total/NA	Analysis	9012A		1			269516	03/15/13 09:58	DAM	TAL SAV
Total/NA	Prep	3060A			1.02 g	100 mL	269510	03/15/13 10:20	BB	TAL SAV
Total/NA	Analysis	7196A		1			269645	03/16/13 11:20	RW	TAL SAV

Client Sample ID: DDSB-4-0-2-20130313-01

Lab Sample ID: 680-88289-23

Date Collected: 03/13/13 08:30
Matrix: Solid
Date Received: 03/13/13 15:50
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.308 g	5 mL	269683	03/18/13 10:38	FS	TAL SAV
Total/NA	Analysis	8260B		1			270151	03/20/13 20:42	RB	TAL SAV
Total/NA	Prep	3541			15.7709 g	0.5 mL	179992	03/15/13 07:34	STW	TAL CHI
Total/NA	Analysis	8270C		1			180871	03/25/13 15:37	KDL	TAL CHI
Total/NA	Prep	3541			15.7334 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 11:56	GMO	TAL CHI
Total/NA	Prep	3541			15.7334 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8081A		1			180839	03/26/13 13:45	PG	TAL CHI
Total/NA	Prep	3550B			00030.07 g	10.0 mL	100242	03/16/13 09:29	QC	TAL TAL
Total/NA	Analysis	8141A		1			100675	04/02/13 10:35	MLT	TAL TAL
Total/NA	Prep	7471A			0.56 g	50 mL	269369	03/14/13 11:34	UU	TAL SAV
Total/NA	Analysis	7471A		1			269747	03/15/13 17:32	BCB	TAL SAV
Total/NA	Prep	3050B			1.06 g	100 mL	269660	03/17/13 10:25	BB	TAL SAV
Total/NA	Analysis	6010B		1			269937	03/18/13 23:51	BCB	TAL SAV
Total/NA	Prep	9012A			1.01 g	50 mL	269353	03/14/13 10:30	DAM	TAL SAV
Total/NA	Analysis	9012A		1			269516	03/15/13 10:02	DAM	TAL SAV
Total/NA	Prep	3060A			1.02 g	100 mL	269690	03/18/13 10:55	BB	TAL SAV
Total/NA	Analysis	7196A		1			270007	03/20/13 12:27	JE	TAL SAV

Lab Chronicle

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-4-12-14-20130313-01

Lab Sample ID: 680-88289-24

Date Collected: 03/13/13 09:00
Matrix: Solid
Date Received: 03/13/13 15:50
Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.127 g	5 mL	269683	03/18/13 10:38	FS	TAL SAV
Total/NA	Analysis	8260B		1			270151	03/20/13 21:05	RB	TAL SAV
Total/NA	Prep	3541			15.5785 g	0.5 mL	179992	03/15/13 07:34	STW	TAL CHI
Total/NA	Analysis	8270C		1			180871	03/25/13 15:54	KDL	TAL CHI
Total/NA	Prep	3541			15.7320 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 12:11	GMO	TAL CHI
Total/NA	Prep	3541			15.7320 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8081A		1			180839	03/26/13 14:05	PG	TAL CHI
Total/NA	Prep	3550B			00030.34 g	10.0 mL	100242	03/16/13 09:29	QC	TAL TAL
Total/NA	Analysis	8141A		1			100675	04/02/13 10:50	MLT	TAL TAL
Total/NA	Prep	3550B			00030.34 g	10.0 mL	100242	03/16/13 09:29	QC	TAL TAL
Total/NA	Analysis	8141A		1			100675	04/02/13 10:50	MLT	TAL TAL
Total/NA	Prep	7471A			0.51 g	50 mL	269369	03/14/13 11:34	UU	TAL SAV
Total/NA	Analysis	7471A		1			269747	03/15/13 17:39	BCB	TAL SAV
Total/NA	Prep	3050B			1.12 g	100 mL	269660	03/17/13 10:25	BB	TAL SAV
Total/NA	Analysis	6010B		1			269937	03/18/13 23:56	BCB	TAL SAV
Total/NA	Prep	9012A			1.00 g	50 mL	269353	03/14/13 10:30	DAM	TAL SAV
Total/NA	Analysis	9012A		1			269516	03/15/13 10:03	DAM	TAL SAV
Total/NA	Prep	3060A			1.06 g	100 mL	269510	03/15/13 10:20	BB	TAL SAV
Total/NA	Analysis	7196A		1			269645	03/16/13 11:20	RW	TAL SAV

Client Sample ID: DDSB-3-0-2-20130313-01

Lab Sample ID: 680-88289-25

Date Collected: 03/13/13 09:30
Matrix: Solid
Date Received: 03/13/13 15:50
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.4 g	5 mL	269683	03/18/13 10:38	FS	TAL SAV
Total/NA	Analysis	8260B		1			270027	03/19/13 17:21	RB	TAL SAV
Total/NA	Prep	3541			15.5513 g	0.5 mL	179992	03/15/13 07:34	STW	TAL CHI
Total/NA	Analysis	8270C		1			180871	03/25/13 16:12	KDL	TAL CHI
Total/NA	Prep	3541			15.0615 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 12:25	GMO	TAL CHI
Total/NA	Prep	3541			15.0615 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8081A		1			180839	03/26/13 14:26	PG	TAL CHI
Total/NA	Prep	3550B			00030.31 g	10.0 mL	100242	03/16/13 09:29	QC	TAL TAL
Total/NA	Analysis	8141A		1			100675	04/02/13 12:49	MLT	TAL TAL
Total/NA	Prep	7471A			0.52 g	50 mL	269369	03/14/13 11:34	UU	TAL SAV
Total/NA	Analysis	7471A		1			269747	03/15/13 17:47	BCB	TAL SAV
Total/NA	Prep	3050B			1.16 g	100 mL	269660	03/17/13 10:25	BB	TAL SAV
Total/NA	Analysis	6010B		1			269937	03/19/13 00:01	BCB	TAL SAV
Total/NA	Prep	9012A			1.01 g	50 mL	269353	03/14/13 10:30	DAM	TAL SAV
Total/NA	Analysis	9012A		1			269516	03/15/13 10:07	DAM	TAL SAV
Total/NA	Prep	3060A			1.17 g	100 mL	269690	03/18/13 10:55	BB	TAL SAV
Total/NA	Analysis	7196A		1			270007	03/20/13 12:27	JE	TAL SAV

Client Sample ID: DDSB-3-12-14-20130313-01

Lab Sample ID: 680-88289-26

Date Collected: 03/13/13 10:00
Matrix: Solid
Date Received: 03/13/13 15:50
Percent Solids: 76.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.943 g	5 mL	269683	03/18/13 10:38	FS	TAL SAV
Total/NA	Analysis	8260B		1			270027	03/19/13 17:44	RB	TAL SAV
Total/NA	Prep	3541			15.1501 g	0.5 mL	179992	03/15/13 07:34	STW	TAL CHI
Total/NA	Analysis	8270C		1			180871	03/25/13 16:29	KDL	TAL CHI
Total/NA	Prep	3541			15.6252 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 12:39	GMO	TAL CHI
Total/NA	Prep	3541			15.6252 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8081A		1			180839	03/26/13 14:47	PG	TAL CHI
Total/NA	Prep	3550B			00030.56 g	10.0 mL	100242	03/16/13 09:29	QC	TAL TAL
Total/NA	Analysis	8141A		1			100675	04/02/13 11:49	MLT	TAL TAL
Total/NA	Prep	7471A			0.58 g	50 mL	269369	03/14/13 11:34	UU	TAL SAV
Total/NA	Analysis	7471A		1			269747	03/15/13 17:49	BCB	TAL SAV
Total/NA	Prep	3050B			1.04 g	100 mL	269660	03/17/13 10:25	BB	TAL SAV
Total/NA	Analysis	6010B		1			269937	03/19/13 00:07	BCB	TAL SAV
Total/NA	Prep	9012A			1.04 g	50 mL	269353	03/14/13 10:30	DAM	TAL SAV
Total/NA	Analysis	9012A		1			269516	03/15/13 10:08	DAM	TAL SAV
Total/NA	Prep	3060A			1.01 g	100 mL	269510	03/15/13 10:20	BB	TAL SAV
Total/NA	Analysis	7196A		1			269645	03/16/13 11:20	RW	TAL SAV

Client Sample ID: DDSB-5-0-2-20130313-01

Lab Sample ID: 680-88289-27

Date Collected: 03/13/13 10:30
Matrix: Solid
Date Received: 03/13/13 15:50
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.645 g	5 mL	269683	03/18/13 10:38	FS	TAL SAV
Total/NA	Analysis	8260B		1			270027	03/19/13 18:06	RB	TAL SAV
Total/NA	Prep	3541			15.0184 g	0.5 mL	179992	03/15/13 07:34	STW	TAL CHI
Total/NA	Analysis	8270C		1			180871	03/25/13 16:47	KDL	TAL CHI
Total/NA	Prep	3541			15.9302 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 12:53	GMO	TAL CHI
Total/NA	Prep	3541			15.9302 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 12:53	GMO	TAL CHI
Total/NA	Prep	3541			15.9302 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8081A		1			180839	03/26/13 15:07	PG	TAL CHI
Total/NA	Prep	3541			15.9302 g	5.0 mL	179990	03/15/13 07:24	STW	TAL CHI
Total/NA	Analysis	8081A		1			180839	03/26/13 15:07	PG	TAL CHI
Total/NA	Prep	3550B			00030.53 g	10.0 mL	100242	03/16/13 09:29	QC	TAL TAL
Total/NA	Analysis	8141A		1			100675	04/02/13 12:04	MLT	TAL TAL
Total/NA	Prep	7471A			0.56 g	50 mL	269369	03/14/13 11:34	UU	TAL SAV
Total/NA	Analysis	7471A		1			269747	03/15/13 17:52	BCB	TAL SAV
Total/NA	Prep	3050B			1.16 g	100 mL	269660	03/17/13 10:25	BB	TAL SAV
Total/NA	Analysis	6010B		1			269937	03/19/13 00:12	BCB	TAL SAV
Total/NA	Prep	9012A			1.02 g	50 mL	269353	03/14/13 10:30	DAM	TAL SAV

Lab Chronicle

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Client Sample ID: DDSB-5-0-2-20130313-01

Lab Sample ID: 680-88289-27

Date Collected: 03/13/13 10:30
Matrix: Solid
Date Received: 03/13/13 15:50
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9012A		1			269516	03/15/13 10:09	DAM	TAL SAV
Total/NA	Prep	3060A			1.05 g	100 mL	269510	03/15/13 10:20	BB	TAL SAV
Total/NA	Analysis	7196A		1			269645	03/16/13 11:20	RW	TAL SAV

Client Sample ID: TRIP BLANK

Lab Sample ID: 680-88289-28

Date Collected: 03/13/13 00:00
Matrix: Water
Date Received: 03/13/13 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	269749	03/18/13 15:48	AJMC	TAL SAV

Client Sample ID: TRIP BLANK

Lab Sample ID: 680-88289-29

Date Collected: 03/13/13 00:00
Matrix: Water
Date Received: 03/13/13 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	269749	03/18/13 14:49	AJMC	TAL SAV

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Mr. James Morrison	Phone:	Gulizia, Lidya E-Mail: lidya.gulizia@testamericainc.com		680-46469-20896.1 Page:
Company: ERM-Southeast, Inc.				Job #:
Address: The Towers at Wildwood Plaza 3200 Windy Hill Road Suite 150	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30339				
Phone: 404-816-6168(Tel)	PO #: 176740			
Email: jim.morrison@erm.com	WO #: 176740			
Project Name: Macon MGP Due Dil. REV Soils 03/13	Project #: 68010916			
Site: Macon MGP Due Diligence Soil Event	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - 8260 VOC (FP) - DD (SAV)	6010B / 7471 Metals / 7196A Cr+6 / 9012 CN (SAV)	8141A - 8141 OP PESTS (TAL)	8081A OC PEST/ 8082 PCB / 8270C SVOC (CHI)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				E/F	N	N	N		
TRIP BLANK				Solid								
[illegible] DDSB-12-0.2-20130312-01	3/12/13	1310	G	Solid			3	1	1	1	6	
DDSB-12-12-13-20130312-01	3/12/13	1330	G	Solid			3	1	1	1	6	
DDSB-1-0.2-20130312-01	3/12/13	1015	G	Solid			3	1	1	1		
DDSB-1-12-13-20130312-01	3/12/13	1030	G	Solid			3	1	1	1		
DDSB-11-0.2-20130312-01	3/12/13	1500	G	Solid			3	1	1	1		
DDSB-11-12-14-20130312-01	3/12/13	1515	G	Solid			3	1	1	1		
DDSB-10-0.2-20130312-01	3/12/13	1600	G	Solid			3	1	1	1		
[illegible]	[illegible]	[illegible]	[illegible]	Solid			[illegible]	[illegible]	[illegible]	[illegible]		
DDSB-4-0.2-20130313-01	3/13/13	0830	G	Solid			3	1	1	1		
DDSB-4-12-14-20130313-01	3/13/13	0900	G	Solid			3	1	1	1		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	3-13-13 1300		[signature]	3/13/13	
2	[signature]	03/13/13 1550	TA			
3				[signature]	3/15/13 1330	TA SV

Custody Seals Intact: △ Yes △ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 680-88189 4.1/4.2/4.0/4.0/4.2

2.

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: DON DOLLENS	Lab PM: Gulizia, Lidya	Carrier Tracking No(s):	COC No: 680-46469-20896.1
Client Contact: Mr. James Morrison	Phone:	E-Mail: lidya.gulizia@testamericainc.com		Page:
Company: ERM-Southeast, Inc.				Job #:
Address: The Towers at Wildwood Plaza 3200 Windy Hill Road Suite 150	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30339				
Phone: 404-816-6168(Tel)	PO #: 176740			
Email: jim.morrison@erm.com	WO #: 176740			
Project Name: Macon MGP Due Dil. REV Soils 03/13	Project #: 68010916			
Site: Macon MGP Due Diligence Soil Event	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - 8260 VOC (FP) - DD (SAV)	6010B / 7471 Metals / 7196A Cr+6 / 9012 CN (SAV)	8141A - 8141 OP PESTS (TAL)	8081A OC PEST/ 8082 PCB / 8270C SVOC (CHI)	Total Number of containers	Special Instructions/Note:
Preservation Code:							E/F	N	N	N		
DDSB 3-0.2-20130313-01	3-13-13	0930	G	Solid			3	1	1	1		
DDSB-3-12-14-20130313-01	3-13-13	1100	G	Solid			3	1	1	1		
DDSB 5-0.2-20130313-01	3-13-13	1030	G	Solid			3	1	1	1		
TRIP BLANK			G	Solid			3					
TRIP BLANK			G	Solid			3					
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	3-13-13 1300		[signature]	3/13/13 1340	
2	[signature]	3/13/13 1350		Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 3/13/13 1600	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 680.88289 4.6/4.2/4.0/4.0/4.0

Login Sample Receipt Checklist

Client: ERM-Southeast, Inc.

Job Number: 680-88289-2
SDG Number: AGL88289-2

Login Number: 88289
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.0, 4.0, 4.1, 4.1, 4.2 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	TRIP BLANK LOT 121212
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	False	Received -41 not listed on COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	Insufficient volume received for MS/MSD.
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ERM-Southeast, Inc.

Job Number: 680-88289-2
SDG Number: AGL88289-2

Login Number: 88289
List Number: 1
Creator: Lunt, Jeff T

List Source: TestAmerica Chicago
List Creation: 03/14/13 10:48 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: ERM-Southeast, Inc.

Job Number: 680-88289-2
SDG Number: AGL88289-2

Login Number: 88289
List Number: 1
Creator: Delp, Eric

List Source: TestAmerica Tallahassee
List Creation: 03/14/13 01:37 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	05-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	03-31-13
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAP	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13

Certification Summary

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88289-2
SDG: AGL88289-2

Laboratory: TestAmerica Chicago (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAP	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-13
Kentucky (UST)	State Program	4	66	04-11-13
Louisiana	NELAP	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-13
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAP	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13

Laboratory: TestAmerica Tallahassee

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E81005	06-30-13
Georgia	State Program	4		06-30-13
Louisiana	NELAP	6	30663	06-30-13
New Jersey	NELAP	2	FL012	06-30-13
Texas	NELAP	6	T104704459-11-2	03-31-14
USDA	Federal		P330-08-00158	08-05-14

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-88339-2
TestAmerica Sample Delivery Group: AGL88339-2
Client Project/Site: Macon MGP Due Diligence Soil MAR 2013

For:
ERM-Southeast, Inc.
The Towers at Wildwood Plaza
3200 Windy Hill Road
Suite 1500W
Atlanta, Georgia 30339

Attn: Mr. James Morrison

Authorized for release by:
4/4/2013 5:07:32 PM

Lidya Gulizia
Project Manager II
lidya.gulizia@testamericainc.com

Table of Contents

Job ID: 680-88339-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: ERM-Southeast, Inc.

Project: Macon MGP Due Diligence Soil MAR 2013

Report Number: 680-88339-2

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

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

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

RECEIPT

The samples were received on 03/14/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 0.4º C, 2.4º C, 2.4º C, 2.6º C, 3.2º C and 4.2º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples DDSB-5-8-10-20130314-01 (680-88339-2), DDSB-6-0-2-10-20130314-01 (680-88339-3) and DDSB-6-16-20-10-20130314-01 (680-88339-4) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were prepared on 03/20/2013 and analyzed on 03/20/2013 and 03/21/2013.

Samples TRIP BLANK (680-88339-1) and TB-05-20130314-01 (680-88339-5) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 03/28/2013.

A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 4 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS/LCSD associated with batch 270151 had up to 2 analytes outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

The method blank for batch 270346 contained napthalene and 1,24,-trichlorobenzene above the method detection limit (MDL). This target analyte concentration was less than one-half the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other difficulties were encountered during the volatiles analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples DDSB-5-8-10-20130314-01 (680-88339-2), DDSB-6-0-2-10-20130314-01 (680-88339-3) and DDSB-6-16-20-10-20130314-01 (680-88339-4) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/18/2013 and analyzed on 03/25/2013.

A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 4 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 18202 had 3 analytes {Benzidine at 6%; Benzoic Acid at 0%; and Dinoseb at 45%} outside control limits, but within marginal exceedence; therefore, corrective action was not performed. These results have been

Job ID: 680-88339-2 (Continued)

Laboratory: TestAmerica Savannah (Continued)

reported and qualified. DDSB-5-8-10-20130314-01 (680-88339-2), DDSB-6-0-2-10-20130314-01 (680-88339-3), DDSB-6-16-20-10-20130314-01 (680-88339-4)

The reference method specifies +/- 30 second retention time difference between the midpoint in the initial calibration (ICAL) and the continuing calibration verification (CCV). The CCV's and samples run on instrument CMS23 exceeded these criteria: DDSB-5-8-10-20130314-01 (680-88339-2), DDSB-6-0-2-10-20130314-01 (680-88339-3), DDSB-6-16-20-10-20130314-01 (680-88339-4). This retention time shift is due to normal and reasonable column maintenance and does affect the instrument's chromatography resolution, sensitivity, or identification of target analytes. System tetention times have been updated for proper analyte identification.DDSB-5-8-10-20130314-01 (680-88339-2), DDSB-6-0-2-10-20130314-01 (680-88339-3), DDSB-6-16-20-10-20130314-01 (680-88339-4)

The continuing calibration verification (CCV) associated with batch 500-180723/2 recovered above the upper control limit for Di-n-octyl phthalate at 29.2%D. The continuing calibration verification (CCV) associated with batch 500-180871/2 recovered above the upper control limit for Di-n-octyl phthalate at 28.5%D and Pentachlorophenol at 25.3%D. The samples associated with these CCV's were non-detects for the affected analytes; therefore, the data have been reported. DDSB-5-8-10-20130314-01 (680-88339-2), DDSB-6-0-2-10-20130314-01 (680-88339-3), DDSB-6-16-20-10-20130314-01 (680-88339-4)

No other difficulties were encountered during the semivolatiles analyses.

All other quality control parameters were within the acceptance limits.

ORGANOCHLORINE PESTICIDES

Samples DDSB-5-8-10-20130314-01 (680-88339-2), DDSB-6-0-2-10-20130314-01 (680-88339-3) and DDSB-6-16-20-10-20130314-01 (680-88339-4) were analyzed for organochlorine pesticides in accordance with EPA SW-846 Method 8081A. The samples were prepared on 03/19/2013 and analyzed on 03/21/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

The grand mean exception, as outlined in EPA Method 8000B, was applied to the continuing calibration verification (CCV) standard associated with batch 180355. This rule states that when one or more compounds in the CCV fail to meet acceptance criteria, the initial calibration (ICAL) may be used for quantitation if the average %D (the grand mean) of all the compounds in the CCV is less than or equal to 15%D. Compounds affected: Toxaphene (peaks 4 and 5), Heptachlor, 4,4'-DDT, and Methoxychlor.DDSB-5-8-10-20130314-01 (680-88339-2), DDSB-6-0-2-10-20130314-01 (680-88339-3), DDSB-6-16-20-10-20130314-01 (680-88339-4)

No difficulties were encountered during the pesticides analyses.

All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples DDSB-5-8-10-20130314-01 (680-88339-2), DDSB-6-0-2-10-20130314-01 (680-88339-3) and DDSB-6-16-20-10-20130314-01 (680-88339-4) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 03/19/2013 and analyzed on 03/20/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

No difficulties were encountered during the PCBs analyses.

All quality control parameters were within the acceptance limits.

ORGANOPHOSPHORUS PESTICIDES

Samples DDSB-5-8-10-20130314-01 (680-88339-2), DDSB-6-0-2-10-20130314-01 (680-88339-3) and DDSB-6-16-20-10-20130314-01 (680-88339-4) were analyzed for organophosphorus pesticides in accordance with EPA SW-846 Method 8141A. The samples were prepared on 03/18/2013 and analyzed on 04/01/2013.

Job ID: 680-88339-2 (Continued)

Laboratory: TestAmerica Savannah (Continued)

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

The grand mean exception, as outlined in EPA Method 8000B, was applied to the continuing calibration verification (CCV) standard associated with batch 640-100242 and 640-100288. This rule states that when one or more compounds in the CCV fail to meet acceptance criteria, the initial calibration (ICAL) may be used for quantitation if the average %D (the grand mean) of all the compounds in the CCV is less than or equal to 15 %D.

The one set of matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 640-100288 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. Sample 680-88399B2 was used for the MS/MSD.

No other difficulties were encountered during the pesticides analyses.

All other quality control parameters were within the acceptance limits.

TOTAL METALS (ICP)

Samples DDSB-5-8-10-20130314-01 (680-88339-2), DDSB-6-0-2-10-20130314-01 (680-88339-3) and DDSB-6-16-20-10-20130314-01 (680-88339-4) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 03/18/2013 and analyzed on 03/19/2013.

The serial dilution performed for the following sample(s) associated with batch 680-269729 was outside control limits for aluminum, barium, calcium, iron, magneseium, manganese, lead, vanadium, and zinc: (680-88339-7 SD)

Due to the high concentration of aluminum, barium, calcium, iron, manganese, lead, andzinc, the matrix spike / matrix spike duplicate (MS/MSD) for batch 680-269729 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-269729 were outside control limits for arsenic, copper, antimony, thallium, and vanadium. The associated laboratory control sample (LCS) recovery met acceptance criteria.

The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 680-269729 was outside control limits for copper, lead, antimony and zinc. Non-homogeneity of the sample matrix is suspected.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples DDSB-5-8-10-20130314-01 (680-88339-2), DDSB-6-0-2-10-20130314-01 (680-88339-3) and DDSB-6-16-20-10-20130314-01 (680-88339-4) were analyzed for total mercury in accordance with EPA SW-846 Method 7471A. The samples were prepared on 03/18/2013 and 03/21/2013 and analyzed on 03/20/2013 and 03/22/2013.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-269698 were outside control limits for mercury. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other difficulties were encountered during the mercury analyses.

All other quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM

Samples DDSB-5-8-10-20130314-01 (680-88339-2), DDSB-6-0-2-10-20130314-01 (680-88339-3) and DDSB-6-16-20-10-20130314-01 (680-88339-4) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 3060A/7196A. The samples were prepared on 03/18/2013 and analyzed on 03/20/2013.

Job ID: 680-88339-2 (Continued)

Laboratory: TestAmerica Savannah (Continued)

To verify the absence of an interference, EPA Method 7196A requires the sample to be diluted until the post digestive spike (PDS) recovery is within 85-115%. For this reason, the following sample(s) was diluted: (680-88273-9 DU), SIA4BT5-08A (0-2') (680-88273-9). Elevated reporting limits (RLs) are provided.

The matrix spike (MS) recoveries for batch 269690 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other difficulties were encountered during the hexavalent chromium analyses.

All other quality control parameters were within the acceptance limits.

TOTAL CYANIDE

Samples DDSB-5-8-10-20130314-01 (680-88339-2), DDSB-6-0-2-10-20130314-01 (680-88339-3) and DDSB-6-16-20-10-20130314-01 (680-88339-4) were analyzed for total and amenable cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared and analyzed on 03/18/2013.

No difficulties were encountered during the cyanide analyses.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88339-1	TRIP BLANK	Water	03/14/13 00:00	03/14/13 16:05
680-88339-2	DDSB-5-8-10-20130314-01	Solid	03/14/13 08:30	03/14/13 16:05
680-88339-3	DDSB-6-0-2-10-20130314-01	Solid	03/14/13 09:00	03/14/13 16:05
680-88339-4	DDSB-6-16-20-10-20130314-01	Solid	03/14/13 10:00	03/14/13 16:05
680-88339-5	TB-05-20130314-01	Water	03/14/13 00:00	03/14/13 16:05

Method Summary

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8081A	Organochlorine Pesticides (GC)	SW846	TAL CHI
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
8141A	Organophosphorous Pesticides (GC)	SW846	TAL TAL
6010B	Metals (ICP)	SW846	TAL SAV
7471A	Mercury (CVAA)	SW846	TAL SAV
7196A	Chromium, Hexavalent	SW846	TAL SAV
9012A	Cyanide, Total and/or Amenable	SW846	TAL SAV

Protocol References:

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	RPD of the MS and MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Client Sample ID: TRIP BLANK
Date Collected: 03/14/13 00:00
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			03/28/13 14:16	1
Benzene	1.0	U	1.0	0.25	ug/L			03/28/13 14:16	1
Bromobenzene	1.0	U	1.0	0.16	ug/L			03/28/13 14:16	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/28/13 14:16	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			03/28/13 14:16	1
Bromoform	1.0	U	1.0	0.50	ug/L			03/28/13 14:16	1
Bromomethane	1.0	U	1.0	0.80	ug/L			03/28/13 14:16	1
2-Butanone	10	U	10	1.0	ug/L			03/28/13 14:16	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			03/28/13 14:16	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			03/28/13 14:16	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			03/28/13 14:16	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			03/28/13 14:16	1
Chloroethane	1.0	U	1.0	1.0	ug/L			03/28/13 14:16	1
Chloroform	1.0	U	1.0	0.14	ug/L			03/28/13 14:16	1
Chloromethane	1.0	U	1.0	0.33	ug/L			03/28/13 14:16	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/L			03/28/13 14:16	1
4-Chlorotoluene	1.0	U	1.0	0.27	ug/L			03/28/13 14:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			03/28/13 14:16	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			03/28/13 14:16	1
Cyclohexane	1.0	U	1.0	0.25	ug/L			03/28/13 14:16	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			03/28/13 14:16	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			03/28/13 14:16	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			03/28/13 14:16	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			03/28/13 14:16	1
1,3-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			03/28/13 14:16	1
1,4-Dichlorobenzene	1.0	U	1.0	0.28	ug/L			03/28/13 14:16	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			03/28/13 14:16	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			03/28/13 14:16	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			03/28/13 14:16	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			03/28/13 14:16	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			03/28/13 14:16	1
1,3-Dichloropropane	1.0	U	1.0	0.13	ug/L			03/28/13 14:16	1
2,2-Dichloropropane	1.0	U	1.0	0.12	ug/L			03/28/13 14:16	1
1,1-Dichloropropene	1.0	U	1.0	0.25	ug/L			03/28/13 14:16	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/28/13 14:16	1
Hexachlorobutadiene	1.0	U	1.0	0.40	ug/L			03/28/13 14:16	1
2-Hexanone	10	U	10	1.0	ug/L			03/28/13 14:16	1
Isopropylbenzene	1.0	U	1.0	0.10	ug/L			03/28/13 14:16	1
Methyl acetate	1.0	U	1.0	0.19	ug/L			03/28/13 14:16	1
Methylcyclohexane	1.0	U	1.0	0.10	ug/L			03/28/13 14:16	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			03/28/13 14:16	1
4-Methyl-2-pentanone	10	U	10	1.0	ug/L			03/28/13 14:16	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			03/28/13 14:16	1
Naphthalene	5.0	U	5.0	1.0	ug/L			03/28/13 14:16	1
n-Butylbenzene	1.0	U	1.0	0.10	ug/L			03/28/13 14:16	1
N-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/28/13 14:16	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/28/13 14:16	1
sec-Butylbenzene	1.0	U	1.0	0.16	ug/L			03/28/13 14:16	1
Styrene	1.0	U	1.0	0.11	ug/L			03/28/13 14:16	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Client Sample ID: TRIP BLANK
Date Collected: 03/14/13 00:00
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	1.0	0.12	ug/L			03/28/13 14:16	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			03/28/13 14:16	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			03/28/13 14:16	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/28/13 14:16	1
Toluene	1.0	U	1.0	0.33	ug/L			03/28/13 14:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			03/28/13 14:16	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			03/28/13 14:16	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			03/28/13 14:16	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.25	ug/L			03/28/13 14:16	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			03/28/13 14:16	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			03/28/13 14:16	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			03/28/13 14:16	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			03/28/13 14:16	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			03/28/13 14:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			03/28/13 14:16	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			03/28/13 14:16	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			03/28/13 14:16	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			03/28/13 14:16	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			03/28/13 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*70 - 130*		*03/28/13 14:16*	*1*
Dibromofluoromethane	*108*		*70 - 130*		*03/28/13 14:16*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*03/28/13 14:16*	*1*

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Client Sample ID: DDSB-5-8-10-20130314-01
Date Collected: 03/14/13 08:30
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-2
Matrix: Solid
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.045	U *	0.045	0.0099	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Benzene	0.0045	U	0.0045	0.00066	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Bromobenzene	0.0045	U	0.0045	0.0015	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Bromochloromethane	0.0045	U	0.0045	0.0030	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Bromodichloromethane	0.0045	U	0.0045	0.00088	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Bromoform	0.0045	U	0.0045	0.0014	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Bromomethane	0.0045	U	0.0045	0.0014	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
2-Butanone	0.023	U	0.023	0.0022	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Carbon disulfide	0.0045	U	0.0045	0.00099	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Carbon tetrachloride	0.0045	U	0.0045	0.00075	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Chlorobenzene	0.0045	U	0.0045	0.00087	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Chlorodibromomethane	0.0045	U	0.0045	0.0015	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Chloroethane	0.0045	U	0.0045	0.0024	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Chloroform	0.0045	U	0.0045	0.00099	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Chloromethane	0.0045	U	0.0045	0.00090	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
2-Chlorotoluene	0.0045	U	0.0045	0.0018	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
4-Chlorotoluene	0.0045	U	0.0045	0.0015	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
cis-1,2-Dichloroethene	0.0045	U	0.0045	0.0013	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
cis-1,3-Dichloropropene	0.0045	U	0.0045	0.00075	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Cyclohexane	0.0090	U	0.0090	0.0012	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
1,2-Dibromo-3-Chloropropane	0.0090	U	0.0090	0.0040	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
1,2-Dibromoethane	0.0045	U	0.0045	0.0014	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Dibromomethane	0.0045	U	0.0045	0.0015	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
1,2-Dichlorobenzene	0.0045	U	0.0045	0.0012	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
1,3-Dichlorobenzene	0.0045	U	0.0045	0.0014	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
1,4-Dichlorobenzene	0.0045	U	0.0045	0.00067	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Dichlorodifluoromethane	0.0045	U	0.0045	0.00085	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
1,1-Dichloroethane	0.0045	U	0.0045	0.00099	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
1,2-Dichloroethane	0.0045	U	0.0045	0.00099	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
1,1-Dichloroethene	0.0045	U	0.0045	0.0014	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
1,2-Dichloropropane	0.0045	U	0.0045	0.00078	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
2,2-Dichloropropane	0.0045	U	0.0045	0.00099	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
1,3-Dichloropropane	0.0045	U	0.0045	0.0016	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
1,1-Dichloropropene	0.0045	U	0.0045	0.00086	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Ethylbenzene	0.0045	U	0.0045	0.0012	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Hexachlorobutadiene	0.0045	U	0.0045	0.0028	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
2-Hexanone	0.023	U *	0.023	0.0030	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Isopropylbenzene	0.0045	U	0.0045	0.0017	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Methyl acetate	0.0090	U	0.0090	0.0045	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Methylcyclohexane	0.0090	U	0.0090	0.00078	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Methylene Chloride	0.0045	U	0.0045	0.00088	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
4-Methyl-2-pentanone	0.023	U	0.023	0.0038	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Methyl tert-butyl ether	0.0090	U	0.0090	0.00090	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Naphthalene	0.0045	U	0.0045	0.0011	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
n-Butylbenzene	0.0045	U	0.0045	0.0022	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
N-Propylbenzene	0.0045	U	0.0045	0.0024	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
p-Isopropyltoluene	0.0045	U	0.0045	0.0020	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
sec-Butylbenzene	0.0045	U	0.0045	0.0019	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Styrene	0.0045	U	0.0045	0.00084	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Client Sample ID: DDSB-5-8-10-20130314-01
Date Collected: 03/14/13 08:30
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-2
Matrix: Solid
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.0045	U	0.0045	0.0016	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
1,1,2,2-Tetrachloroethane	0.0045	U	0.0045	0.0014	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
1,1,1,2-Tetrachloroethane	0.0045	U	0.0045	0.0022	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Tetrachloroethene	0.0045	U	0.0045	0.0017	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Toluene	0.0045	U	0.0045	0.00076	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
trans-1,2-Dichloroethene	0.0045	U	0.0045	0.00057	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
trans-1,3-Dichloropropene	0.0045	U	0.0045	0.00079	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
1,2,4-Trichlorobenzene	0.0045	U	0.0045	0.00080	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
1,2,3-Trichlorobenzene	0.0045	U	0.0045	0.0014	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
1,1,1-Trichloroethane	0.0045	U	0.0045	0.00053	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
1,1,2-Trichloroethane	0.0045	U	0.0045	0.0012	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Trichloroethene	0.0045	U	0.0045	0.0012	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Trichlorofluoromethane	0.0045	U	0.0045	0.0011	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
1,2,3-Trichloropropane	0.0045	U	0.0045	0.0022	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0045	U	0.0045	0.0012	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
1,2,4-Trimethylbenzene	0.0045	U	0.0045	0.0013	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
1,3,5-Trimethylbenzene	0.0045	U	0.0045	0.0015	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Vinyl chloride	0.0045	U	0.0045	0.0014	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1
Xylenes, Total	0.0090	U	0.0090	0.00099	mg/Kg	☼	03/20/13 11:18	03/20/13 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*65 - 130*	*03/20/13 11:18*	*03/20/13 22:35*	*1*
Dibromofluoromethane	*84*		*65 - 130*	*03/20/13 11:18*	*03/20/13 22:35*	*1*
Toluene-d8 (Surr)	*90*		*65 - 130*	*03/20/13 11:18*	*03/20/13 22:35*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.039	U	0.039	0.012	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Acenaphthylene	0.039	U	0.039	0.0091	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Acetophenone	0.39	U	0.39	0.071	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
2-Acetylaminofluorene	0.20	U	0.20	0.037	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
alpha,alpha-Dimethyl phenethylamine	1.6	U	1.6	0.47	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
4-Aminobiphenyl	0.20	U	0.20	0.080	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Aniline	0.80	U	0.80	0.36	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Anthracene	0.039	U	0.039	0.0093	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Aramite	0.20	U	0.20	0.039	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Benzenethiol	0.80	U	0.80	0.39	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Benzidine	0.80	U *	0.80	0.39	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Benzo[a]anthracene	0.039	U	0.039	0.0083	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Benzo[a]pyrene	0.039	U	0.039	0.0072	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Benzo[b]fluoranthene	0.039	U	0.039	0.0077	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Benzo[g,h,i]perylene	0.039	U	0.039	0.013	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Benzoic acid	2.0	U *	2.0	0.54	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Benzo[k]fluoranthene	0.039	U	0.039	0.0094	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Benzyl alcohol	0.39	U	0.39	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Bis(2-chloroethoxy)methane	0.20	U	0.20	0.044	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Bis(2-chloroethyl)ether	0.20	U	0.20	0.059	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Bis(2-ethylhexyl) phthalate	0.20	U	0.20	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
4-Bromophenyl phenyl ether	0.20	U	0.20	0.044	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Butyl benzyl phthalate	0.20	U	0.20	0.050	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Client Sample ID: DDSB-5-8-10-20130314-01
Date Collected: 03/14/13 08:30
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-2
Matrix: Solid
Percent Solids: 82.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	0.39	U	0.39	0.091	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
4-Chloroaniline	0.80	U	0.80	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
4-Chloro-3-methylphenol	0.39	U	0.39	0.19	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
2-Chloronaphthalene	0.20	U	0.20	0.045	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
2-Chlorophenol	0.20	U	0.20	0.057	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
4-Chlorophenyl phenyl ether	0.20	U	0.20	0.062	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Chrysene	0.039	U	0.039	0.0089	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Diallate	0.20	U	0.20	0.040	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Dibenz(a,h)anthracene	0.039	U	0.039	0.011	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Dibenz[a,j]acridine	0.20	U	0.20	0.022	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Dibenzofuran	0.20	U	0.20	0.048	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
1,2-Dichlorobenzene	0.20	U	0.20	0.043	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
1,3-Dichlorobenzene	0.20	U	0.20	0.042	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
1,4-Dichlorobenzene	0.20	U	0.20	0.042	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
3,3'-Dichlorobenzidine	0.20	U	0.20	0.033	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
2,4-Dichlorophenol	0.39	U	0.39	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
2,6-Dichlorophenol	0.20	U	0.20	0.056	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Diethyl phthalate	0.20	U	0.20	0.066	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Diethylstilbestrol	0.80	U	0.80	0.099	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Dimethoate	0.39	U	0.39	0.089	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
7,12-Dimethylbenz(a)anthracene	0.20	U	0.20	0.048	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
3,3'-Dimethylbenzidine	0.80	U	0.80	0.21	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
2,4-Dimethylphenol	0.39	U	0.39	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Dimethyl phthalate	0.20	U	0.20	0.049	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Di-n-butyl phthalate	0.20	U	0.20	0.050	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
1,4-Dinitrobenzene	0.20	U	0.20	0.031	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
4,6-Dinitro-2-methylphenol	0.39	U	0.39	0.096	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
2,4-Dinitrophenol	0.80	U	0.80	0.20	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
2,4-Dinitrotoluene	0.20	U	0.20	0.061	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
2,6-Dinitrotoluene	0.20	U	0.20	0.047	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Di-n-octyl phthalate	0.20	U	0.20	0.080	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Dinoseb	0.39	U *	0.39	0.10	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
1,4-Dioxane	0.80	U	0.80	0.27	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Diphenylamine	0.20	U	0.20	0.045	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
1,2-Diphenylhydrazine	0.20	U	0.20	0.050	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Disulfoton	0.39	U	0.39	0.060	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Ethyl 4,4'-Dichlorobenzilate	0.20	U	0.20	0.025	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Ethyl methanesulfonate	0.20	U	0.20	0.022	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Ethyl Parathion	0.39	U	0.39	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Famphur	0.39	U	0.39	0.064	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Fluoranthene	0.039	U	0.039	0.016	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Fluorene	0.039	U	0.039	0.0090	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Hexachlorobenzene	0.080	U	0.080	0.0078	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Hexachlorobutadiene	0.20	U	0.20	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Hexachlorocyclopentadiene	0.80	U	0.80	0.18	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Hexachloroethane	0.20	U	0.20	0.042	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Hexachlorophene	3.9	U	3.9	1.5	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Hexachloropropene	0.39	U	0.39	0.16	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Indeno[1,2,3-cd]pyrene	0.039	U	0.039	0.013	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Client Sample ID: DDSB-5-8-10-20130314-01
Date Collected: 03/14/13 08:30
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-2
Matrix: Solid
Percent Solids: 82.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	0.20	U	0.20	0.044	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Isosafrole	0.20	U	0.20	0.021	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Kepone	0.80	U	0.80	0.39	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Malathion	0.39	U	0.39	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
m-Dinitrobenzene	0.20	U	0.20	0.037	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Methapyrilene	1.6	U	1.6	0.21	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
3-Methylcholanthrene	0.20	U	0.20	0.017	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Methyl methanesulfonate	0.20	U	0.20	0.032	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
2-Methylnaphthalene	0.20	U	0.20	0.051	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Methyl parathion	0.39	U	0.39	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
2-Methylphenol	0.20	U	0.20	0.053	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
3 & 4 Methylphenol	0.20	U	0.20	0.075	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Naphthalene	0.039	U	0.039	0.0076	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
1,4-Naphthoquinone	0.80	U	0.80	0.39	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
1-Naphthylamine	0.20	U	0.20	0.030	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
2-Naphthylamine	0.20	U	0.20	0.054	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
2-Nitroaniline	0.20	U	0.20	0.071	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
3-Nitroaniline	0.39	U	0.39	0.076	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
4-Nitroaniline	0.39	U	0.39	0.081	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Nitrobenzene	0.039	U	0.039	0.012	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
5-Nitro-o-toluidine	0.20	U	0.20	0.037	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
2-Nitrophenol	0.39	U	0.39	0.062	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
4-Nitrophenol	0.80	U	0.80	0.21	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
4-Nitroquinoline-1-oxide	0.80	U	0.80	0.37	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
N-Nitrosodiethylamine	0.39	U	0.39	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
N-Nitrosodimethylamine	0.80	U	0.80	0.43	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
N-Nitrosodi-n-butylamine	0.20	U	0.20	0.071	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
N-Nitrosodi-n-propylamine	0.20	U	0.20	0.050	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
N-Nitrosodiphenylamine	0.20	U	0.20	0.053	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
N-Nitrosomethylethylamine	0.80	U	0.80	0.32	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
N-Nitrosomorpholine	0.20	U	0.20	0.037	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
N-Nitrosopiperidine	0.39	U	0.39	0.036	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
N-Nitrosopyrrolidine	0.20	U	0.20	0.045	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
o,o',o''-Triethylphosphorothioate	0.39	U	0.39	0.061	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
o-Toluidine	0.20	U	0.20	0.038	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
2,2'-oxybis[1-chloropropane]	0.20	U	0.20	0.044	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
p-Dimethylamino azobenzene	0.20	U	0.20	0.021	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Pentachlorobenzene	0.20	U	0.20	0.050	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Pentachloronitrobenzene	0.20	U	0.20	0.028	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Pentachlorophenol	0.80	U	0.80	0.20	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Phenacetin	0.20	U	0.20	0.041	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Phenanthrene	0.039	U	0.039	0.017	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Phenol	0.20	U	0.20	0.063	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Phorate	0.39	U	0.39	0.084	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
2-Picoline	0.39	U	0.39	0.15	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
p-Phenylene diamine	1.6	U	1.6	0.083	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Pronamide	0.20	U	0.20	0.032	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Pyrene	0.039	U	0.039	0.014	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Pyridine	0.80	U	0.80	0.47	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1

Client Sample ID: DDSB-5-8-10-20130314-01
Date Collected: 03/14/13 08:30
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-2
Matrix: Solid
Percent Solids: 82.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole	0.20	U	0.20	0.019	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Sulfotepp	0.39	U	0.39	0.079	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
sym-Trinitrobenzene	0.80	U	0.80	0.40	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
1,2,4,5-Tetrachlorobenzene	0.20	U	0.20	0.047	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
2,3,4,6-Tetrachlorophenol	0.20	U	0.20	0.054	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
Thionazin	0.39	U	0.39	0.088	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
1,2,4-Trichlorobenzene	0.20	U	0.20	0.045	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
2,4,5-Trichlorophenol	0.39	U	0.39	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1
2,4,6-Trichlorophenol	0.39	U	0.39	0.050	mg/Kg	☼	03/18/13 16:41	03/25/13 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*57*		*30 - 119*	*03/18/13 16:41*	*03/25/13 17:22*	*1*
2-Fluorophenol	*61*		*30 - 110*	*03/18/13 16:41*	*03/25/13 17:22*	*1*
Nitrobenzene-d5	*58*		*30 - 115*	*03/18/13 16:41*	*03/25/13 17:22*	*1*
Phenol-d5	*61*		*31 - 110*	*03/18/13 16:41*	*03/25/13 17:22*	*1*
Terphenyl-d14	*72*		*36 - 134*	*03/18/13 16:41*	*03/25/13 17:22*	*1*
2,4,6-Tribromophenol	*69*		*35 - 137*	*03/18/13 16:41*	*03/25/13 17:22*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0020	U	0.0020	0.00081	mg/Kg	☼	03/19/13 07:15	03/21/13 02:26	1
alpha-BHC	0.0020	U	0.0020	0.00050	mg/Kg	☼	03/19/13 07:15	03/21/13 02:26	1
beta-BHC	0.0020	U	0.0020	0.00061	mg/Kg	☼	03/19/13 07:15	03/21/13 02:26	1
Chlordane (technical)	0.0078	U	0.0078	0.0038	mg/Kg	☼	03/19/13 07:15	03/21/13 02:26	1
4,4'-DDD	0.0020	U	0.0020	0.00039	mg/Kg	☼	03/19/13 07:15	03/21/13 02:26	1
4,4'-DDE	0.0020	U	0.0020	0.00032	mg/Kg	☼	03/19/13 07:15	03/21/13 02:26	1
4,4'-DDT	0.0020	U	0.0020	0.0010	mg/Kg	☼	03/19/13 07:15	03/21/13 02:26	1
delta-BHC	0.0020	U	0.0020	0.00061	mg/Kg	☼	03/19/13 07:15	03/21/13 02:26	1
Dieldrin	0.0020	U	0.0020	0.00027	mg/Kg	☼	03/19/13 07:15	03/21/13 02:26	1
Endosulfan I	0.0020	U	0.0020	0.00085	mg/Kg	☼	03/19/13 07:15	03/21/13 02:26	1
Endosulfan II	0.0020	U	0.0020	0.00032	mg/Kg	☼	03/19/13 07:15	03/21/13 02:26	1
Endosulfan sulfate	0.0020	U	0.0020	0.00036	mg/Kg	☼	03/19/13 07:15	03/21/13 02:26	1
Endrin	0.0020	U	0.0020	0.00027	mg/Kg	☼	03/19/13 07:15	03/21/13 02:26	1
Endrin aldehyde	0.0020	U	0.0020	0.00033	mg/Kg	☼	03/19/13 07:15	03/21/13 02:26	1
Endrin ketone	0.0020	U	0.0020	0.00044	mg/Kg	☼	03/19/13 07:15	03/21/13 02:26	1
gamma-BHC (Lindane)	0.0020	U	0.0020	0.00042	mg/Kg	☼	03/19/13 07:15	03/21/13 02:26	1
Heptachlor	0.0020	U	0.0020	0.00082	mg/Kg	☼	03/19/13 07:15	03/21/13 02:26	1
Heptachlor epoxide	0.0020	U	0.0020	0.00069	mg/Kg	☼	03/19/13 07:15	03/21/13 02:26	1
Isodrin	0.0020	U	0.0020	0.00091	mg/Kg	☼	03/19/13 07:15	03/21/13 02:26	1
Methoxychlor	0.0097	U	0.0097	0.00038	mg/Kg	☼	03/19/13 07:15	03/21/13 02:26	1
Toxaphene	0.020	U	0.020	0.0082	mg/Kg	☼	03/19/13 07:15	03/21/13 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*85*		*56 - 128*	*03/19/13 07:15*	*03/21/13 02:26*	*1*
Tetrachloro-m-xylene	*64*		*45 - 112*	*03/19/13 07:15*	*03/21/13 02:26*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.020	U	0.020	0.0069	mg/Kg	☼	03/19/13 07:15	03/20/13 14:18	1
PCB-1221	0.020	U	0.020	0.0086	mg/Kg	☼	03/19/13 07:15	03/20/13 14:18	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Client Sample ID: DDSB-5-8-10-20130314-01
Date Collected: 03/14/13 08:30
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-2
Matrix: Solid
Percent Solids: 82.1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	0.020	U	0.020	0.0085	mg/Kg	☼	03/19/13 07:15	03/20/13 14:18	1
PCB-1242	0.020	U	0.020	0.0064	mg/Kg	☼	03/19/13 07:15	03/20/13 14:18	1
PCB-1248	0.020	U	0.020	0.0077	mg/Kg	☼	03/19/13 07:15	03/20/13 14:18	1
PCB-1254	0.020	U	0.020	0.0042	mg/Kg	☼	03/19/13 07:15	03/20/13 14:18	1
PCB-1260	0.020	U	0.020	0.0096	mg/Kg	☼	03/19/13 07:15	03/20/13 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*50 - 116*	*03/19/13 07:15*	*03/20/13 14:18*	*1*
DCB Decachlorobiphenyl	*96*		*48 - 142*	*03/19/13 07:15*	*03/20/13 14:18*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.080	U	0.080	0.0035	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Azinphos-methyl	0.080	U	0.080	0.018	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Bolstar	0.040	U	0.040	0.0057	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Carbophenthion	0.080	U	0.080	0.0064	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Chlorpyrifos	0.040	U	0.040	0.0083	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Chlorpyrifos-methyl	0.040	U	0.040	0.015	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Coumaphos	0.40	U	0.40	0.027	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Demeton-O	0.10	U	0.10	0.0032	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Demeton-S	0.10	U	0.10	0.0068	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Demeton, Total	0.10	U	0.10	0.0094	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Diazinon	0.040	U	0.040	0.0069	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Dichlofenthion	0.040	U	0.040	0.0051	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Dichlorvos	0.080	U	0.080	0.0078	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Dimethoate	0.080	U	0.080	0.011	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Disulfoton	0.080	U	0.080	0.019	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
EPN	0.040	U	0.040	0.0055	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Ethion	0.021	U	0.021	0.0064	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Ethoprop	0.021	U	0.021	0.0051	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Ethyl Parathion	0.040	U	0.040	0.0067	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Famphur	0.080	U	0.080	0.010	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Fensulfothion	0.40	U	0.40	0.015	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Fenthion	0.040	U	0.040	0.0057	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Malathion	0.040	U	0.040	0.010	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Merphos	0.040	U	0.040	0.013	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Methyl parathion	0.021	U	0.021	0.0066	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Mevinphos	0.080	U	0.080	0.0056	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Monochrotophos	0.40	U	0.40	0.056	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Naled	0.40	U	0.40	0.027	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Phorate	0.040	U	0.040	0.0066	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Ronnel	0.040	U	0.040	0.0051	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Simazine	0.080	U	0.080	0.0039	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Stirophos	0.040	U	0.040	0.0078	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Sulfotepp	0.021	U	0.021	0.010	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Terbufos	0.021	U	0.021	0.019	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Thionazin	0.040	U	0.040	0.012	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Tokuthion	0.040	U	0.040	0.0066	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1
Trichloronate	0.40	U	0.40	0.0092	mg/Kg	☼	03/18/13 14:54	04/01/13 11:49	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Client Sample ID: DDSB-5-8-10-20130314-01
Date Collected: 03/14/13 08:30
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-2
Matrix: Solid
Percent Solids: 82.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate (TPP)	*73*		*35 - 134*	*03/18/13 14:54*	*04/01/13 11:49*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4800**		23	12	mg/Kg	☼	03/18/13 13:13	03/19/13 17:06	1
Antimony	2.3	U	2.3	0.62	mg/Kg	☼	03/18/13 13:13	03/19/13 17:06	1
Arsenic	2.3	U	2.3	0.69	mg/Kg	☼	03/18/13 13:13	03/19/13 17:06	1
Barium	**4.8**		1.2	0.35	mg/Kg	☼	03/18/13 13:13	03/19/13 17:06	1
Beryllium	**0.12**	**J**	0.47	0.023	mg/Kg	☼	03/18/13 13:13	03/19/13 17:06	1
Cadmium	0.59	U	0.59	0.12	mg/Kg	☼	03/18/13 13:13	03/19/13 17:06	1
Calcium	**370**		59	23	mg/Kg	☼	03/18/13 13:13	03/19/13 17:06	1
Chromium	**3.9**		1.2	0.59	mg/Kg	☼	03/18/13 13:13	03/19/13 17:06	1
Cobalt	**0.72**	**J**	1.2	0.14	mg/Kg	☼	03/18/13 13:13	03/19/13 17:06	1
Copper	**2.3**	**J**	2.9	1.3	mg/Kg	☼	03/18/13 13:13	03/19/13 17:06	1
Iron	**3000**		23	8.2	mg/Kg	☼	03/18/13 13:13	03/19/13 17:06	1
Lead	**5.6**		1.2	0.62	mg/Kg	☼	03/18/13 13:13	03/19/13 17:06	1
Magnesium	**190**		59	2.8	mg/Kg	☼	03/18/13 13:13	03/19/13 17:06	1
Manganese	**5.3**		1.2	0.35	mg/Kg	☼	03/18/13 13:13	03/19/13 17:06	1
Nickel	**1.1**	**J**	4.7	0.36	mg/Kg	☼	03/18/13 13:13	03/19/13 17:06	1
Potassium	**130**		120	9.4	mg/Kg	☼	03/18/13 13:13	03/19/13 17:06	1
Selenium	2.9	U	2.9	1.2	mg/Kg	☼	03/18/13 13:13	03/19/13 17:06	1
Silver	1.2	U	1.2	0.11	mg/Kg	☼	03/18/13 13:13	03/19/13 17:06	1
Sodium	230	U	230	96	mg/Kg	☼	03/18/13 13:13	03/19/13 17:06	1
Thallium	2.9	U	2.9	1.2	mg/Kg	☼	03/18/13 13:13	03/19/13 17:06	1
Vanadium	**18**		1.2	0.28	mg/Kg	☼	03/18/13 13:13	03/19/13 17:06	1
Zinc	**6.0**		2.3	1.4	mg/Kg	☼	03/18/13 13:13	03/19/13 17:06	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021	U	0.021	0.0086	mg/Kg	☼	03/18/13 11:09	03/20/13 18:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	1.0	U	1.0	0.31	mg/Kg	☼	03/18/13 10:55	03/20/13 12:27	1
Cyanide, Total	0.60	U	0.60	0.25	mg/Kg	☼	03/18/13 09:30	03/18/13 14:17	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Client Sample ID: DDSB-6-0-2-10-20130314-01
Date Collected: 03/14/13 09:00
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-3
Matrix: Solid
Percent Solids: 88.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011	J	0.041	0.0090	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Benzene	0.0041	U	0.0041	0.00060	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Bromobenzene	0.0041	U	0.0041	0.0014	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Bromochloromethane	0.0041	U	0.0041	0.0027	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Bromodichloromethane	0.0041	U	0.0041	0.00080	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Bromoform	0.0041	U	0.0041	0.0012	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Bromomethane	0.0041	U	0.0041	0.0012	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
2-Butanone	0.021	U	0.021	0.0020	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Carbon disulfide	0.0041	U	0.0041	0.00090	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Carbon tetrachloride	0.0041	U	0.0041	0.00068	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Chlorobenzene	0.0041	U	0.0041	0.00079	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Chlorodibromomethane	0.0041	U	0.0041	0.0014	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Chloroethane	0.0041	U	0.0041	0.0022	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Chloroform	0.0041	U	0.0041	0.00090	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Chloromethane	0.0041	U	0.0041	0.00082	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
2-Chlorotoluene	0.0041	U	0.0041	0.0016	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
4-Chlorotoluene	0.0041	U	0.0041	0.0014	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
cis-1,2-Dichloroethene	0.0041	U	0.0041	0.0011	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
cis-1,3-Dichloropropene	0.0041	U	0.0041	0.00068	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Cyclohexane	0.0082	U	0.0082	0.0011	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
1,2-Dibromo-3-Chloropropane	0.0082	U	0.0082	0.0036	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
1,2-Dibromoethane	0.0041	U	0.0041	0.0012	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Dibromomethane	0.0041	U	0.0041	0.0014	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
1,2-Dichlorobenzene	0.0041	U	0.0041	0.0011	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
1,3-Dichlorobenzene	0.0041	U	0.0041	0.0013	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
1,4-Dichlorobenzene	0.0041	U	0.0041	0.00061	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Dichlorodifluoromethane	0.0041	U	0.0041	0.00077	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
1,1-Dichloroethane	0.0041	U	0.0041	0.00090	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
1,2-Dichloroethane	0.0041	U	0.0041	0.00090	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
1,1-Dichloroethene	0.0041	U	0.0041	0.0012	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
1,2-Dichloropropane	0.0041	U	0.0041	0.00071	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
2,2-Dichloropropane	0.0041	U	0.0041	0.00090	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
1,3-Dichloropropane	0.0041	U	0.0041	0.0015	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
1,1-Dichloropropene	0.0041	U	0.0041	0.00078	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Ethylbenzene	0.0041	U	0.0041	0.0011	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Hexachlorobutadiene	0.0041	U	0.0041	0.0025	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
2-Hexanone	0.021	U	0.021	0.0027	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Isopropylbenzene	0.0041	U	0.0041	0.0016	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Methyl acetate	0.0082	U	0.0082	0.0041	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Methylcyclohexane	0.0082	U	0.0082	0.00071	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Methylene Chloride	0.0041	U	0.0041	0.00080	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
4-Methyl-2-pentanone	0.021	U	0.021	0.0034	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Methyl tert-butyl ether	0.0082	U	0.0082	0.00082	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Naphthalene	0.0041	U	0.0041	0.00098	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
n-Butylbenzene	0.0041	U	0.0041	0.0020	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
N-Propylbenzene	0.0041	U	0.0041	0.0022	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
p-Isopropyltoluene	0.0041	U	0.0041	0.0018	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
sec-Butylbenzene	0.0041	U	0.0041	0.0017	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Styrene	0.0041	U	0.0041	0.00076	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Client Sample ID: DDSB-6-0-2-10-20130314-01
Date Collected: 03/14/13 09:00
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-3
Matrix: Solid
Percent Solids: 88.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.0041	U	0.0041	0.0015	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
1,1,2,2-Tetrachloroethane	0.0041	U	0.0041	0.0013	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
1,1,1,2-Tetrachloroethane	0.0041	U	0.0041	0.0020	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Tetrachloroethene	0.0041	U	0.0041	0.0016	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Toluene	0.0041	U	0.0041	0.00069	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
trans-1,2-Dichloroethene	0.0041	U	0.0041	0.00052	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
trans-1,3-Dichloropropene	0.0041	U	0.0041	0.00071	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
1,2,4-Trichlorobenzene	0.0041	U	0.0041	0.00073	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
1,2,3-Trichlorobenzene	0.0041	U	0.0041	0.0013	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
1,1,1-Trichloroethane	0.0041	U	0.0041	0.00048	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
1,1,2-Trichloroethane	0.0041	U	0.0041	0.0011	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Trichloroethene	0.0041	U	0.0041	0.0011	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Trichlorofluoromethane	0.0041	U	0.0041	0.00098	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
1,2,3-Trichloropropane	0.0041	U	0.0041	0.0020	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0041	U	0.0041	0.0011	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
1,2,4-Trimethylbenzene	0.0041	U	0.0041	0.0011	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
1,3,5-Trimethylbenzene	0.0041	U	0.0041	0.0014	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Vinyl chloride	0.0041	U	0.0041	0.0012	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1
Xylenes, Total	0.0082	U	0.0082	0.00090	mg/Kg	☼	03/20/13 11:18	03/21/13 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*65 - 130*	*03/20/13 11:18*	*03/21/13 15:56*	*1*
Dibromofluoromethane	*84*		*65 - 130*	*03/20/13 11:18*	*03/21/13 15:56*	*1*
Toluene-d8 (Surr)	*88*		*65 - 130*	*03/20/13 11:18*	*03/21/13 15:56*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.036	U	0.036	0.011	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Acenaphthylene	0.036	U	0.036	0.0083	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Acetophenone	0.36	U	0.36	0.065	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
2-Acetylaminofluorene	0.18	U	0.18	0.033	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
alpha,alpha-Dimethyl phenethylamine	1.4	U	1.4	0.43	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
4-Aminobiphenyl	0.18	U	0.18	0.073	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Aniline	0.72	U	0.72	0.32	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Anthracene	0.036	U	0.036	0.0084	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Aramite	0.18	U	0.18	0.036	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Benzenethiol	0.72	U	0.72	0.36	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Benzidine	0.72	U *	0.72	0.36	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Benzo[a]anthracene	0.036	U	0.036	0.0075	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Benzo[a]pyrene	0.036	U	0.036	0.0065	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Benzo[b]fluoranthene	0.036	U	0.036	0.0070	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Benzo[g,h,i]perylene	0.036	U	0.036	0.012	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Benzoic acid	1.8	U *	1.8	0.49	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Benzo[k]fluoranthene	0.036	U	0.036	0.0086	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Benzyl alcohol	0.36	U	0.36	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Bis(2-chloroethoxy)methane	0.18	U	0.18	0.040	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Bis(2-chloroethyl)ether	0.18	U	0.18	0.053	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Bis(2-ethylhexyl) phthalate	0.18	U	0.18	0.048	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
4-Bromophenyl phenyl ether	0.18	U	0.18	0.040	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Butyl benzyl phthalate	0.18	U	0.18	0.045	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Client Sample ID: DDSB-6-0-2-10-20130314-01
Date Collected: 03/14/13 09:00
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-3
Matrix: Solid
Percent Solids: 88.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	0.36	U	0.36	0.083	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
4-Chloroaniline	0.72	U	0.72	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
4-Chloro-3-methylphenol	0.36	U	0.36	0.17	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
2-Chloronaphthalene	0.18	U	0.18	0.040	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
2-Chlorophenol	0.18	U	0.18	0.051	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
4-Chlorophenyl phenyl ether	0.18	U	0.18	0.057	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Chrysene	0.036	U	0.036	0.0081	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Diallate	0.18	U	0.18	0.036	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Dibenz(a,h)anthracene	0.036	U	0.036	0.010	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Dibenz[a,j]acridine	0.18	U	0.18	0.020	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Dibenzofuran	0.18	U	0.18	0.043	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
1,2-Dichlorobenzene	0.18	U	0.18	0.039	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
1,3-Dichlorobenzene	0.18	U	0.18	0.038	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
1,4-Dichlorobenzene	0.18	U	0.18	0.038	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
3,3'-Dichlorobenzidine	0.18	U	0.18	0.030	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
2,4-Dichlorophenol	0.36	U	0.36	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
2,6-Dichlorophenol	0.18	U	0.18	0.051	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Diethyl phthalate	0.18	U	0.18	0.060	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Diethylstilbestrol	0.72	U	0.72	0.090	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Dimethoate	0.36	U	0.36	0.081	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
7,12-Dimethylbenz(a)anthracene	0.18	U	0.18	0.044	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
3,3'-Dimethylbenzidine	0.72	U	0.72	0.19	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
2,4-Dimethylphenol	0.36	U	0.36	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Dimethyl phthalate	0.18	U	0.18	0.045	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Di-n-butyl phthalate	0.18	U	0.18	0.045	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
1,4-Dinitrobenzene	0.18	U	0.18	0.028	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
4,6-Dinitro-2-methylphenol	0.36	U	0.36	0.087	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
2,4-Dinitrophenol	0.72	U	0.72	0.18	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
2,4-Dinitrotoluene	0.18	U	0.18	0.055	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
2,6-Dinitrotoluene	0.18	U	0.18	0.043	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Di-n-octyl phthalate	0.18	U	0.18	0.073	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Dinoseb	0.36	U *	0.36	0.093	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
1,4-Dioxane	0.72	U	0.72	0.24	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Diphenylamine	0.18	U	0.18	0.041	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
1,2-Diphenylhydrazine	0.18	U	0.18	0.046	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Disulfoton	0.36	U	0.36	0.054	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Ethyl 4,4'-Dichlorobenzilate	0.18	U	0.18	0.023	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Ethyl methanesulfonate	0.18	U	0.18	0.020	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Ethyl Parathion	0.36	U	0.36	0.10	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Famphur	0.36	U	0.36	0.058	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Fluoranthene	0.036	U	0.036	0.015	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Fluorene	0.036	U	0.036	0.0082	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Hexachlorobenzene	0.072	U	0.072	0.0071	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Hexachlorobutadiene	0.18	U	0.18	0.047	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Hexachlorocyclopentadiene	0.72	U	0.72	0.17	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Hexachloroethane	0.18	U	0.18	0.038	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Hexachlorophene	3.6	U	3.6	1.3	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Hexachloropropene	0.36	U	0.36	0.14	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Indeno[1,2,3-cd]pyrene	0.036	U	0.036	0.012	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Client Sample ID: DDSB-6-0-2-10-20130314-01
Date Collected: 03/14/13 09:00
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-3
Matrix: Solid
Percent Solids: 88.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	0.18	U	0.18	0.040	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Isosafrole	0.18	U	0.18	0.019	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Kepone	0.72	U	0.72	0.36	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Malathion	0.36	U	0.36	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
m-Dinitrobenzene	0.18	U	0.18	0.034	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Methapyrilene	1.4	U	1.4	0.19	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
3-Methylcholanthrene	0.18	U	0.18	0.015	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Methyl methanesulfonate	0.18	U	0.18	0.029	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
2-Methylnaphthalene	0.18	U	0.18	0.047	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Methyl parathion	0.36	U	0.36	0.10	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
2-Methylphenol	0.18	U	0.18	0.048	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
3 & 4 Methylphenol	0.18	U	0.18	0.068	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Naphthalene	0.036	U	0.036	0.0069	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
1,4-Naphthoquinone	0.72	U	0.72	0.36	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
1-Naphthylamine	0.18	U	0.18	0.028	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
2-Naphthylamine	0.18	U	0.18	0.049	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
2-Nitroaniline	0.18	U	0.18	0.065	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
3-Nitroaniline	0.36	U	0.36	0.069	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
4-Nitroaniline	0.36	U	0.36	0.074	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Nitrobenzene	0.036	U	0.036	0.011	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
5-Nitro-o-toluidine	0.18	U	0.18	0.034	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
2-Nitrophenol	0.36	U	0.36	0.056	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
4-Nitrophenol	0.72	U	0.72	0.19	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
4-Nitroquinoline-1-oxide	0.72	U	0.72	0.34	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
N-Nitrosodiethylamine	0.36	U	0.36	0.10	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
N-Nitrosodimethylamine	0.72	U	0.72	0.39	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
N-Nitrosodi-n-butylamine	0.18	U	0.18	0.064	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
N-Nitrosodi-n-propylamine	0.18	U	0.18	0.046	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
N-Nitrosodiphenylamine	0.18	U	0.18	0.049	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
N-Nitrosomethylethylamine	0.72	U	0.72	0.29	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
N-Nitrosomorpholine	0.18	U	0.18	0.033	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
N-Nitrosopiperidine	0.36	U	0.36	0.033	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
N-Nitrosopyrrolidine	0.18	U	0.18	0.041	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
o,o',o''-Triethylphosphorothioate	0.36	U	0.36	0.055	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
o-Toluidine	0.18	U	0.18	0.035	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
2,2'-oxybis[1-chloropropane]	0.18	U	0.18	0.040	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
p-Dimethylamino azobenzene	0.18	U	0.18	0.019	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Pentachlorobenzene	0.18	U	0.18	0.045	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Pentachloronitrobenzene	0.18	U	0.18	0.026	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Pentachlorophenol	0.72	U	0.72	0.18	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Phenacetin	0.18	U	0.18	0.037	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Phenanthrene	0.036	U	0.036	0.015	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Phenol	0.18	U	0.18	0.057	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Phorate	0.36	U	0.36	0.076	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
2-Picoline	0.36	U	0.36	0.14	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
p-Phenylene diamine	1.4	U	1.4	0.076	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Pronamide	0.18	U	0.18	0.029	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Pyrene	0.036	U	0.036	0.013	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Pyridine	0.72	U	0.72	0.43	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1

Client Sample ID: DDSB-6-0-2-10-20130314-01
Date Collected: 03/14/13 09:00
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-3
Matrix: Solid
Percent Solids: 88.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole	0.18	U	0.18	0.017	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Sulfotepp	0.36	U	0.36	0.072	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
sym-Trinitrobenzene	0.72	U	0.72	0.37	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
1,2,4,5-Tetrachlorobenzene	0.18	U	0.18	0.042	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
2,3,4,6-Tetrachlorophenol	0.18	U	0.18	0.049	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
Thionazin	0.36	U	0.36	0.080	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
1,2,4-Trichlorobenzene	0.18	U	0.18	0.041	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
2,4,5-Trichlorophenol	0.36	U	0.36	0.10	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1
2,4,6-Trichlorophenol	0.36	U	0.36	0.045	mg/Kg	☼	03/18/13 16:41	03/25/13 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*42*		*30 - 119*	*03/18/13 16:41*	*03/25/13 17:39*	*1*
2-Fluorophenol	*40*		*30 - 110*	*03/18/13 16:41*	*03/25/13 17:39*	*1*
Nitrobenzene-d5	*41*		*30 - 115*	*03/18/13 16:41*	*03/25/13 17:39*	*1*
Phenol-d5	*43*		*31 - 110*	*03/18/13 16:41*	*03/25/13 17:39*	*1*
Terphenyl-d14	*72*		*36 - 134*	*03/18/13 16:41*	*03/25/13 17:39*	*1*
2,4,6-Tribromophenol	*65*		*35 - 137*	*03/18/13 16:41*	*03/25/13 17:39*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0019	U	0.0019	0.00076	mg/Kg	☼	03/19/13 07:15	03/21/13 02:46	1
alpha-BHC	0.0019	U	0.0019	0.00046	mg/Kg	☼	03/19/13 07:15	03/21/13 02:46	1
beta-BHC	0.0019	U	0.0019	0.00057	mg/Kg	☼	03/19/13 07:15	03/21/13 02:46	1
Chlordane (technical)	0.0073	U	0.0073	0.0036	mg/Kg	☼	03/19/13 07:15	03/21/13 02:46	1
4,4'-DDD	0.0019	U	0.0019	0.00036	mg/Kg	☼	03/19/13 07:15	03/21/13 02:46	1
4,4'-DDE	0.0019	U	0.0019	0.00030	mg/Kg	☼	03/19/13 07:15	03/21/13 02:46	1
4,4'-DDT	0.0019	U	0.0019	0.00096	mg/Kg	☼	03/19/13 07:15	03/21/13 02:46	1
delta-BHC	0.0019	U	0.0019	0.00058	mg/Kg	☼	03/19/13 07:15	03/21/13 02:46	1
Dieldrin	0.0019	U	0.0019	0.00025	mg/Kg	☼	03/19/13 07:15	03/21/13 02:46	1
Endosulfan I	0.0019	U	0.0019	0.00080	mg/Kg	☼	03/19/13 07:15	03/21/13 02:46	1
Endosulfan II	0.0019	U	0.0019	0.00030	mg/Kg	☼	03/19/13 07:15	03/21/13 02:46	1
Endosulfan sulfate	0.0019	U	0.0019	0.00033	mg/Kg	☼	03/19/13 07:15	03/21/13 02:46	1
Endrin	0.0019	U	0.0019	0.00025	mg/Kg	☼	03/19/13 07:15	03/21/13 02:46	1
Endrin aldehyde	0.0019	U	0.0019	0.00031	mg/Kg	☼	03/19/13 07:15	03/21/13 02:46	1
Endrin ketone	0.0019	U	0.0019	0.00041	mg/Kg	☼	03/19/13 07:15	03/21/13 02:46	1
gamma-BHC (Lindane)	0.0019	U	0.0019	0.00040	mg/Kg	☼	03/19/13 07:15	03/21/13 02:46	1
Heptachlor	0.0019	U	0.0019	0.00077	mg/Kg	☼	03/19/13 07:15	03/21/13 02:46	1
Heptachlor epoxide	0.0019	U	0.0019	0.00065	mg/Kg	☼	03/19/13 07:15	03/21/13 02:46	1
Isodrin	0.0019	U	0.0019	0.00085	mg/Kg	☼	03/19/13 07:15	03/21/13 02:46	1
Methoxychlor	0.0091	U	0.0091	0.00035	mg/Kg	☼	03/19/13 07:15	03/21/13 02:46	1
Toxaphene	0.018	U	0.018	0.0077	mg/Kg	☼	03/19/13 07:15	03/21/13 02:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*88*		*56 - 128*	*03/19/13 07:15*	*03/21/13 02:46*	*1*
Tetrachloro-m-xylene	*73*		*45 - 112*	*03/19/13 07:15*	*03/21/13 02:46*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.018	U	0.018	0.0065	mg/Kg	☼	03/19/13 07:15	03/20/13 14:32	1
PCB-1221	0.018	U	0.018	0.0080	mg/Kg	☼	03/19/13 07:15	03/20/13 14:32	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Client Sample ID: DDSB-6-0-2-10-20130314-01
Date Collected: 03/14/13 09:00
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-3
Matrix: Solid
Percent Solids: 88.5

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	0.018	U	0.018	0.0080	mg/Kg	☼	03/19/13 07:15	03/20/13 14:32	1
PCB-1242	0.018	U	0.018	0.0060	mg/Kg	☼	03/19/13 07:15	03/20/13 14:32	1
PCB-1248	0.018	U	0.018	0.0072	mg/Kg	☼	03/19/13 07:15	03/20/13 14:32	1
PCB-1254	0.018	U	0.018	0.0039	mg/Kg	☼	03/19/13 07:15	03/20/13 14:32	1
PCB-1260	0.018	U	0.018	0.0090	mg/Kg	☼	03/19/13 07:15	03/20/13 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*50 - 116*	*03/19/13 07:15*	*03/20/13 14:32*	*1*
DCB Decachlorobiphenyl	*103*		*48 - 142*	*03/19/13 07:15*	*03/20/13 14:32*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.073	U	0.073	0.0032	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Azinphos-methyl	0.073	U	0.073	0.016	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Bolstar	0.036	U	0.036	0.0052	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Carbophenthion	0.073	U	0.073	0.0058	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Chlorpyrifos	0.036	U	0.036	0.0075	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Chlorpyrifos-methyl	0.036	U	0.036	0.013	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Coumaphos	0.36	U	0.36	0.024	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Demeton-O	0.091	U	0.091	0.0029	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Demeton-S	0.091	U	0.091	0.0062	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Demeton, Total	0.091	U	0.091	0.0085	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Diazinon	0.036	U	0.036	0.0063	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Dichlofenthion	0.036	U	0.036	0.0046	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Dichlorvos	0.073	U	0.073	0.0070	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Dimethoate	0.073	U	0.073	0.0097	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Disulfoton	0.073	U	0.073	0.018	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
EPN	0.036	U	0.036	0.0049	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Ethion	0.019	U	0.019	0.0058	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Ethoprop	0.019	U	0.019	0.0046	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Ethyl Parathion	0.036	U	0.036	0.0060	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Famphur	0.073	U	0.073	0.0091	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Fensulfothion	0.36	U	0.36	0.013	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Fenthion	0.036	U	0.036	0.0052	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Malathion	0.036	U	0.036	0.0090	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Merphos	0.036	U	0.036	0.012	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Methyl parathion	0.019	U	0.019	0.0059	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Mevinphos	0.073	U	0.073	0.0051	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Monochrotophos	0.36	U	0.36	0.051	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Naled	0.36	U	0.36	0.024	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Phorate	0.036	U	0.036	0.0059	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Ronnel	0.036	U	0.036	0.0046	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Simazine	0.073	U	0.073	0.0035	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Stirophos	0.036	U	0.036	0.0070	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Sulfotepp	0.019	U	0.019	0.0094	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Terbufos	0.019	U	0.019	0.018	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Thionazin	0.036	U	0.036	0.011	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Tokuthion	0.036	U	0.036	0.0059	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1
Trichloronate	0.36	U	0.36	0.0083	mg/Kg	☼	03/18/13 14:54	04/01/13 12:03	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Client Sample ID: DDSB-6-0-2-10-20130314-01
Date Collected: 03/14/13 09:00
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-3
Matrix: Solid
Percent Solids: 88.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate (TPP)	*58*		*35 - 134*	*03/18/13 14:54*	*04/01/13 12:03*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3700**		21	10	mg/Kg	☼	03/18/13 13:13	03/19/13 17:23	1
Antimony	2.1	U	2.1	0.55	mg/Kg	☼	03/18/13 13:13	03/19/13 17:23	1
Arsenic	**1.0**	**J**	2.1	0.62	mg/Kg	☼	03/18/13 13:13	03/19/13 17:23	1
Barium	**3.2**		1.0	0.31	mg/Kg	☼	03/18/13 13:13	03/19/13 17:23	1
Beryllium	**0.21**	**J**	0.42	0.021	mg/Kg	☼	03/18/13 13:13	03/19/13 17:23	1
Cadmium	0.52	U	0.52	0.10	mg/Kg	☼	03/18/13 13:13	03/19/13 17:23	1
Calcium	**240**		52	21	mg/Kg	☼	03/18/13 13:13	03/19/13 17:23	1
Chromium	**21**		1.0	0.52	mg/Kg	☼	03/18/13 13:13	03/19/13 17:23	1
Cobalt	**0.28**	**J**	1.0	0.13	mg/Kg	☼	03/18/13 13:13	03/19/13 17:23	1
Copper	**5.4**		2.6	1.2	mg/Kg	☼	03/18/13 13:13	03/19/13 17:23	1
Iron	**31000**		21	7.3	mg/Kg	☼	03/18/13 13:13	03/19/13 17:23	1
Lead	**5.7**		1.0	0.55	mg/Kg	☼	03/18/13 13:13	03/19/13 17:23	1
Magnesium	**61**		52	2.5	mg/Kg	☼	03/18/13 13:13	03/19/13 17:23	1
Manganese	**22**		1.0	0.31	mg/Kg	☼	03/18/13 13:13	03/19/13 17:23	1
Nickel	**0.66**	**J**	4.2	0.32	mg/Kg	☼	03/18/13 13:13	03/19/13 17:23	1
Potassium	**100**		100	8.4	mg/Kg	☼	03/18/13 13:13	03/19/13 17:23	1
Selenium	2.6	U	2.6	1.0	mg/Kg	☼	03/18/13 13:13	03/19/13 17:23	1
Silver	1.0	U	1.0	0.10	mg/Kg	☼	03/18/13 13:13	03/19/13 17:23	1
Sodium	210	U	210	86	mg/Kg	☼	03/18/13 13:13	03/19/13 17:23	1
Thallium	2.6	U	2.6	1.0	mg/Kg	☼	03/18/13 13:13	03/19/13 17:23	1
Vanadium	**42**		1.0	0.25	mg/Kg	☼	03/18/13 13:13	03/19/13 17:23	1
Zinc	**4.1**		2.1	1.3	mg/Kg	☼	03/18/13 13:13	03/19/13 17:23	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.015**	**J**	0.021	0.0084	mg/Kg	☼	03/21/13 16:41	03/22/13 12:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	1.0	U	1.0	0.31	mg/Kg	☼	03/18/13 10:55	03/20/13 12:23	1
Cyanide, Total	0.55	U	0.55	0.23	mg/Kg	☼	03/18/13 09:30	03/18/13 14:18	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Client Sample ID: DDSB-6-16-20-10-20130314-01
Date Collected: 03/14/13 10:00
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-4
Matrix: Solid
Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.048	U	0.048	0.011	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Benzene	0.0048	U	0.0048	0.00071	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Bromobenzene	0.0048	U	0.0048	0.0016	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Bromochloromethane	0.0048	U	0.0048	0.0032	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Bromodichloromethane	0.0048	U	0.0048	0.00094	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Bromoform	0.0048	U	0.0048	0.0015	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Bromomethane	0.0048	U	0.0048	0.0015	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
2-Butanone	0.024	U	0.024	0.0023	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Carbon disulfide	0.0048	U	0.0048	0.0011	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Carbon tetrachloride	0.0048	U	0.0048	0.00080	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Chlorobenzene	0.0048	U	0.0048	0.00093	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Chlorodibromomethane	0.0048	U	0.0048	0.0016	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Chloroethane	0.0048	U	0.0048	0.0026	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Chloroform	0.0048	U	0.0048	0.0011	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Chloromethane	0.0048	U	0.0048	0.00097	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
2-Chlorotoluene	0.0048	U	0.0048	0.0019	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
4-Chlorotoluene	0.0048	U	0.0048	0.0016	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
cis-1,2-Dichloroethene	0.0048	U	0.0048	0.0014	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
cis-1,3-Dichloropropene	0.0048	U	0.0048	0.00080	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Cyclohexane	0.0097	U	0.0097	0.0013	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
1,2-Dibromo-3-Chloropropane	0.0097	U	0.0097	0.0043	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
1,2-Dibromoethane	0.0048	U	0.0048	0.0015	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Dibromomethane	0.0048	U	0.0048	0.0016	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
1,2-Dichlorobenzene	0.0048	U	0.0048	0.0013	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
1,3-Dichlorobenzene	0.0048	U	0.0048	0.0015	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
1,4-Dichlorobenzene	0.0048	U	0.0048	0.00072	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Dichlorodifluoromethane	0.0048	U	0.0048	0.00091	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
1,1-Dichloroethane	0.0048	U	0.0048	0.0011	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
1,2-Dichloroethane	0.0048	U	0.0048	0.0011	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
1,1-Dichloroethene	0.0048	U	0.0048	0.0015	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
1,2-Dichloropropane	0.0048	U	0.0048	0.00083	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
2,2-Dichloropropane	0.0048	U	0.0048	0.0011	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
1,3-Dichloropropane	0.0048	U	0.0048	0.0017	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
1,1-Dichloropropene	0.0048	U	0.0048	0.00092	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Ethylbenzene	0.0048	U	0.0048	0.0013	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Hexachlorobutadiene	0.0048	U	0.0048	0.0030	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
2-Hexanone	0.024	U	0.024	0.0032	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Isopropylbenzene	0.0048	U	0.0048	0.0018	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Methyl acetate	0.0097	U	0.0097	0.0048	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Methylcyclohexane	0.0097	U	0.0097	0.00083	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Methylene Chloride	0.0048	U	0.0048	0.00095	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
4-Methyl-2-pentanone	0.024	U	0.024	0.0041	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Methyl tert-butyl ether	0.0097	U	0.0097	0.00097	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Naphthalene	0.0048	U	0.0048	0.0012	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
n-Butylbenzene	0.0048	U	0.0048	0.0023	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
N-Propylbenzene	0.0048	U	0.0048	0.0026	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
p-Isopropyltoluene	0.0048	U	0.0048	0.0021	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
sec-Butylbenzene	0.0048	U	0.0048	0.0020	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Styrene	0.0048	U	0.0048	0.00090	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Client Sample ID: DDSB-6-16-20-10-20130314-01
Date Collected: 03/14/13 10:00
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-4
Matrix: Solid
Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.0048	U	0.0048	0.0017	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
1,1,2,2-Tetrachloroethane	0.0048	U	0.0048	0.0015	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
1,1,1,2-Tetrachloroethane	0.0048	U	0.0048	0.0023	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Tetrachloroethene	0.0048	U	0.0048	0.0018	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Toluene	0.0048	U	0.0048	0.00081	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
trans-1,2-Dichloroethene	0.0048	U	0.0048	0.00061	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
trans-1,3-Dichloropropene	0.0048	U	0.0048	0.00084	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
1,2,4-Trichlorobenzene	0.0048	U	0.0048	0.00086	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
1,2,3-Trichlorobenzene	0.0048	U	0.0048	0.0015	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
1,1,1-Trichloroethane	0.0048	U	0.0048	0.00057	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
1,1,2-Trichloroethane	0.0048	U	0.0048	0.0013	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Trichloroethene	0.0048	U	0.0048	0.0013	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Trichlorofluoromethane	0.0048	U	0.0048	0.0012	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
1,2,3-Trichloropropane	0.0048	U	0.0048	0.0023	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0048	U	0.0048	0.0013	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
1,2,4-Trimethylbenzene	0.0048	U	0.0048	0.0014	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
1,3,5-Trimethylbenzene	0.0048	U	0.0048	0.0016	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Vinyl chloride	0.0048	U	0.0048	0.0015	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1
Xylenes, Total	0.0097	U	0.0097	0.0011	mg/Kg	☼	03/20/13 11:18	03/21/13 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*65 - 130*	*03/20/13 11:18*	*03/21/13 20:22*	*1*
Dibromofluoromethane	*90*		*65 - 130*	*03/20/13 11:18*	*03/21/13 20:22*	*1*
Toluene-d8 (Surr)	*97*		*65 - 130*	*03/20/13 11:18*	*03/21/13 20:22*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.040	U	0.040	0.012	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Acenaphthylene	0.040	U	0.040	0.0092	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Acetophenone	0.40	U	0.40	0.072	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
2-Acetylaminofluorene	0.20	U	0.20	0.037	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
alpha,alpha-Dimethyl phenethylamine	1.6	U	1.6	0.47	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
4-Aminobiphenyl	0.20	U	0.20	0.081	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Aniline	0.81	U	0.81	0.36	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Anthracene	0.040	U	0.040	0.0094	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Aramite	0.20	U	0.20	0.040	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Benzenethiol	0.81	U	0.81	0.40	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Benzidine	0.81	U *	0.81	0.40	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Benzo[a]anthracene	0.040	U	0.040	0.0084	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Benzo[a]pyrene	0.040	U	0.040	0.0073	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Benzo[b]fluoranthene	0.040	U	0.040	0.0078	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Benzo[g,h,i]perylene	0.040	U	0.040	0.014	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Benzoic acid	2.0	U *	2.0	0.55	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Benzo[k]fluoranthene	0.040	U	0.040	0.0095	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Benzyl alcohol	0.40	U	0.40	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Bis(2-chloroethoxy)methane	0.20	U	0.20	0.044	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Bis(2-chloroethyl)ether	0.20	U	0.20	0.059	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Bis(2-ethylhexyl) phthalate	0.20	U	0.20	0.053	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
4-Bromophenyl phenyl ether	0.20	U	0.20	0.045	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Butyl benzyl phthalate	0.20	U	0.20	0.050	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Client Sample ID: DDSB-6-16-20-10-20130314-01
Date Collected: 03/14/13 10:00
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-4
Matrix: Solid
Percent Solids: 78.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	0.40	U	0.40	0.092	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
4-Chloroaniline	0.81	U	0.81	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
4-Chloro-3-methylphenol	0.40	U	0.40	0.19	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
2-Chloronaphthalene	0.20	U	0.20	0.045	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
2-Chlorophenol	0.20	U	0.20	0.057	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
4-Chlorophenyl phenyl ether	0.20	U	0.20	0.063	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Chrysene	0.040	U	0.040	0.0090	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Diallate	0.20	U	0.20	0.040	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Dibenz(a,h)anthracene	0.040	U	0.040	0.011	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Dibenz[a,j]acridine	0.20	U	0.20	0.022	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Dibenzofuran	0.20	U	0.20	0.048	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
1,2-Dichlorobenzene	0.20	U	0.20	0.044	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
1,3-Dichlorobenzene	0.20	U	0.20	0.042	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
1,4-Dichlorobenzene	0.20	U	0.20	0.042	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
3,3'-Dichlorobenzidine	0.20	U	0.20	0.033	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
2,4-Dichlorophenol	0.40	U	0.40	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
2,6-Dichlorophenol	0.20	U	0.20	0.057	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Diethyl phthalate	0.20	U	0.20	0.067	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Diethylstilbestrol	0.81	U	0.81	0.10	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Dimethoate	0.40	U	0.40	0.090	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
7,12-Dimethylbenz(a)anthracene	0.20	U	0.20	0.049	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
3,3'-Dimethylbenzidine	0.81	U	0.81	0.21	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
2,4-Dimethylphenol	0.40	U	0.40	0.13	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Dimethyl phthalate	0.20	U	0.20	0.050	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Di-n-butyl phthalate	0.20	U	0.20	0.051	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
1,4-Dinitrobenzene	0.20	U	0.20	0.031	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
4,6-Dinitro-2-methylphenol	0.40	U	0.40	0.097	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
2,4-Dinitrophenol	0.81	U	0.81	0.20	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
2,4-Dinitrotoluene	0.20	U	0.20	0.061	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
2,6-Dinitrotoluene	0.20	U	0.20	0.048	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Di-n-octyl phthalate	0.20	U	0.20	0.081	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Dinoseb	0.40	U *	0.40	0.10	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
1,4-Dioxane	0.81	U	0.81	0.27	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Diphenylamine	0.20	U	0.20	0.046	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
1,2-Diphenylhydrazine	0.20	U	0.20	0.051	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Disulfoton	0.40	U	0.40	0.061	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Ethyl 4,4'-Dichlorobenzilate	0.20	U	0.20	0.025	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Ethyl methanesulfonate	0.20	U	0.20	0.023	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Ethyl Parathion	0.40	U	0.40	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Famphur	0.40	U	0.40	0.065	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Fluoranthene	0.040	U	0.040	0.016	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Fluorene	0.040	U	0.040	0.0091	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Hexachlorobenzene	0.081	U	0.081	0.0079	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Hexachlorobutadiene	0.20	U	0.20	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Hexachlorocyclopentadiene	0.81	U	0.81	0.19	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Hexachloroethane	0.20	U	0.20	0.043	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Hexachlorophene	4.0	U	4.0	1.5	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Hexachloropropene	0.40	U	0.40	0.16	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Indeno[1,2,3-cd]pyrene	0.040	U	0.040	0.014	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Client Sample ID: DDSB-6-16-20-10-20130314-01
Date Collected: 03/14/13 10:00
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-4
Matrix: Solid
Percent Solids: 78.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	0.20	U	0.20	0.045	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Isosafrole	0.20	U	0.20	0.022	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Kepone	0.81	U	0.81	0.40	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Malathion	0.40	U	0.40	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
m-Dinitrobenzene	0.20	U	0.20	0.038	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Methapyrilene	1.6	U	1.6	0.21	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
3-Methylcholanthrene	0.20	U	0.20	0.017	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Methyl methanesulfonate	0.20	U	0.20	0.033	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
2-Methylnaphthalene	0.20	U	0.20	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Methyl parathion	0.40	U	0.40	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
2-Methylphenol	0.20	U	0.20	0.053	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
3 & 4 Methylphenol	0.20	U	0.20	0.076	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Naphthalene	0.040	U	0.040	0.0077	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
1,4-Naphthoquinone	0.81	U	0.81	0.40	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
1-Naphthylamine	0.20	U	0.20	0.031	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
2-Naphthylamine	0.20	U	0.20	0.054	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
2-Nitroaniline	0.20	U	0.20	0.072	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
3-Nitroaniline	0.40	U	0.40	0.077	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
4-Nitroaniline	0.40	U	0.40	0.082	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Nitrobenzene	0.040	U	0.040	0.012	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
5-Nitro-o-toluidine	0.20	U	0.20	0.038	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
2-Nitrophenol	0.40	U	0.40	0.063	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
4-Nitrophenol	0.81	U	0.81	0.22	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
4-Nitroquinoline-1-oxide	0.81	U	0.81	0.38	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
N-Nitrosodiethylamine	0.40	U	0.40	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
N-Nitrosodimethylamine	0.81	U	0.81	0.44	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
N-Nitrosodi-n-butylamine	0.20	U	0.20	0.072	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
N-Nitrosodi-n-propylamine	0.20	U	0.20	0.051	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
N-Nitrosodiphenylamine	0.20	U	0.20	0.054	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
N-Nitrosomethylethylamine	0.81	U	0.81	0.33	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
N-Nitrosomorpholine	0.20	U	0.20	0.037	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
N-Nitrosopiperidine	0.40	U	0.40	0.037	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
N-Nitrosopyrrolidine	0.20	U	0.20	0.046	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
o,o',o''-Triethylphosphorothioate	0.40	U	0.40	0.062	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
o-Toluidine	0.20	U	0.20	0.039	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
2,2'-oxybis[1-chloropropane]	0.20	U	0.20	0.044	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
p-Dimethylamino azobenzene	0.20	U	0.20	0.021	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Pentachlorobenzene	0.20	U	0.20	0.051	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Pentachloronitrobenzene	0.20	U	0.20	0.028	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Pentachlorophenol	0.81	U	0.81	0.20	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Phenacetin	0.20	U	0.20	0.042	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Phenanthrene	0.040	U	0.040	0.017	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Phenol	0.20	U	0.20	0.063	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Phorate	0.40	U	0.40	0.085	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
2-Picoline	0.40	U	0.40	0.15	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
p-Phenylene diamine	1.6	U	1.6	0.084	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Pronamide	0.20	U	0.20	0.032	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Pyrene	0.040	U	0.040	0.014	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Pyridine	0.81	U	0.81	0.47	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1

Client Sample ID: DDSB-6-16-20-10-20130314-01
Date Collected: 03/14/13 10:00
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-4
Matrix: Solid
Percent Solids: 78.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole	0.20	U	0.20	0.019	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Sulfotepp	0.40	U	0.40	0.080	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
sym-Trinitrobenzene	0.81	U	0.81	0.41	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
1,2,4,5-Tetrachlorobenzene	0.20	U	0.20	0.047	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
2,3,4,6-Tetrachlorophenol	0.20	U	0.20	0.055	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
Thionazin	0.40	U	0.40	0.089	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
1,2,4-Trichlorobenzene	0.20	U	0.20	0.045	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
2,4,5-Trichlorophenol	0.40	U	0.40	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1
2,4,6-Trichlorophenol	0.40	U	0.40	0.050	mg/Kg	☼	03/18/13 16:41	03/25/13 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*48*		*30 - 119*	*03/18/13 16:41*	*03/25/13 17:57*	*1*
2-Fluorophenol	*51*		*30 - 110*	*03/18/13 16:41*	*03/25/13 17:57*	*1*
Nitrobenzene-d5	*50*		*30 - 115*	*03/18/13 16:41*	*03/25/13 17:57*	*1*
Phenol-d5	*51*		*31 - 110*	*03/18/13 16:41*	*03/25/13 17:57*	*1*
Terphenyl-d14	*72*		*36 - 134*	*03/18/13 16:41*	*03/25/13 17:57*	*1*
2,4,6-Tribromophenol	*56*		*35 - 137*	*03/18/13 16:41*	*03/25/13 17:57*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0021	U	0.0021	0.00085	mg/Kg	☼	03/19/13 07:15	03/21/13 03:48	1
alpha-BHC	0.0021	U	0.0021	0.00052	mg/Kg	☼	03/19/13 07:15	03/21/13 03:48	1
beta-BHC	0.0021	U	0.0021	0.00064	mg/Kg	☼	03/19/13 07:15	03/21/13 03:48	1
Chlordane (technical)	0.0083	U	0.0083	0.0040	mg/Kg	☼	03/19/13 07:15	03/21/13 03:48	1
4,4'-DDD	0.0021	U	0.0021	0.00041	mg/Kg	☼	03/19/13 07:15	03/21/13 03:48	1
4,4'-DDE	0.0021	U	0.0021	0.00034	mg/Kg	☼	03/19/13 07:15	03/21/13 03:48	1
4,4'-DDT	0.0021	U	0.0021	0.0011	mg/Kg	☼	03/19/13 07:15	03/21/13 03:48	1
delta-BHC	0.0021	U	0.0021	0.00065	mg/Kg	☼	03/19/13 07:15	03/21/13 03:48	1
Dieldrin	0.0021	U	0.0021	0.00028	mg/Kg	☼	03/19/13 07:15	03/21/13 03:48	1
Endosulfan I	0.0021	U	0.0021	0.00090	mg/Kg	☼	03/19/13 07:15	03/21/13 03:48	1
Endosulfan II	0.0021	U	0.0021	0.00033	mg/Kg	☼	03/19/13 07:15	03/21/13 03:48	1
Endosulfan sulfate	0.0021	U	0.0021	0.00038	mg/Kg	☼	03/19/13 07:15	03/21/13 03:48	1
Endrin	0.0021	U	0.0021	0.00028	mg/Kg	☼	03/19/13 07:15	03/21/13 03:48	1
Endrin aldehyde	0.0021	U	0.0021	0.00035	mg/Kg	☼	03/19/13 07:15	03/21/13 03:48	1
Endrin ketone	0.0021	U	0.0021	0.00047	mg/Kg	☼	03/19/13 07:15	03/21/13 03:48	1
gamma-BHC (Lindane)	0.0021	U	0.0021	0.00045	mg/Kg	☼	03/19/13 07:15	03/21/13 03:48	1
Heptachlor	0.0021	U	0.0021	0.00086	mg/Kg	☼	03/19/13 07:15	03/21/13 03:48	1
Heptachlor epoxide	0.0021	U	0.0021	0.00073	mg/Kg	☼	03/19/13 07:15	03/21/13 03:48	1
Isodrin	0.0021	U	0.0021	0.00096	mg/Kg	☼	03/19/13 07:15	03/21/13 03:48	1
Methoxychlor	0.010	U	0.010	0.00040	mg/Kg	☼	03/19/13 07:15	03/21/13 03:48	1
Toxaphene	0.021	U	0.021	0.0087	mg/Kg	☼	03/19/13 07:15	03/21/13 03:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*98*		*56 - 128*	*03/19/13 07:15*	*03/21/13 03:48*	*1*
Tetrachloro-m-xylene	*65*		*45 - 112*	*03/19/13 07:15*	*03/21/13 03:48*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.021	U	0.021	0.0073	mg/Kg	☼	03/19/13 07:15	03/20/13 15:15	1
PCB-1221	0.021	U	0.021	0.0091	mg/Kg	☼	03/19/13 07:15	03/20/13 15:15	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Client Sample ID: DDSB-6-16-20-10-20130314-01
Date Collected: 03/14/13 10:00
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-4
Matrix: Solid
Percent Solids: 78.9

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	0.021	U	0.021	0.0090	mg/Kg	☼	03/19/13 07:15	03/20/13 15:15	1
PCB-1242	0.021	U	0.021	0.0068	mg/Kg	☼	03/19/13 07:15	03/20/13 15:15	1
PCB-1248	0.021	U	0.021	0.0081	mg/Kg	☼	03/19/13 07:15	03/20/13 15:15	1
PCB-1254	0.021	U	0.021	0.0044	mg/Kg	☼	03/19/13 07:15	03/20/13 15:15	1
PCB-1260	0.021	U	0.021	0.010	mg/Kg	☼	03/19/13 07:15	03/20/13 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*50 - 116*	*03/19/13 07:15*	*03/20/13 15:15*	*1*
DCB Decachlorobiphenyl	*96*		*48 - 142*	*03/19/13 07:15*	*03/20/13 15:15*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.084	U	0.084	0.0037	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Azinphos-methyl	0.084	U	0.084	0.019	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Bolstar	0.042	U	0.042	0.0060	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Carbophenthion	0.084	U	0.084	0.0067	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Chlorpyrifos	0.042	U	0.042	0.0086	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Chlorpyrifos-methyl	0.042	U	0.042	0.015	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Coumaphos	0.42	U	0.42	0.028	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Demeton-O	0.11	U	0.11	0.0033	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Demeton-S	0.11	U	0.11	0.0071	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Demeton, Total	0.11	U	0.11	0.0098	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Diazinon	0.042	U	0.042	0.0072	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Dichlofenthion	0.042	U	0.042	0.0053	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Dichlorvos	0.084	U	0.084	0.0081	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Dimethoate	0.084	U	0.084	0.011	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Disulfoton	0.084	U	0.084	0.020	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
EPN	0.042	U	0.042	0.0057	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Ethion	0.022	U	0.022	0.0067	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Ethoprop	0.022	U	0.022	0.0053	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Ethyl Parathion	0.042	U	0.042	0.0070	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Famphur	0.084	U	0.084	0.011	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Fensulfothion	0.42	U	0.42	0.015	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Fenthion	0.042	U	0.042	0.0060	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Malathion	0.042	U	0.042	0.010	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Merphos	0.042	U	0.042	0.014	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Methyl parathion	0.022	U	0.022	0.0068	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Mevinphos	0.084	U	0.084	0.0058	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Monochrotophos	0.42	U	0.42	0.058	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Naled	0.42	U	0.42	0.028	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Phorate	0.042	U	0.042	0.0068	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Ronnel	0.042	U	0.042	0.0053	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Simazine	0.084	U	0.084	0.0041	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Stirophos	0.042	U	0.042	0.0081	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Sulfotepp	0.022	U	0.022	0.011	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Terbufos	0.022	U	0.022	0.020	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Thionazin	0.042	U	0.042	0.013	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Tokuthion	0.042	U	0.042	0.0068	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1
Trichloronate	0.42	U	0.42	0.0096	mg/Kg	☼	03/18/13 14:54	04/01/13 12:18	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Client Sample ID: DDSB-6-16-20-10-20130314-01
Date Collected: 03/14/13 10:00
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-4
Matrix: Solid
Percent Solids: 78.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate (TPP)	*73*		*35 - 134*	*03/18/13 14:54*	*04/01/13 12:18*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7300**		22	11	mg/Kg	☼	03/18/13 13:13	03/19/13 17:28	1
Antimony	2.2	U	2.2	0.59	mg/Kg	☼	03/18/13 13:13	03/19/13 17:28	1
Arsenic	**1.8**	**J**	2.2	0.66	mg/Kg	☼	03/18/13 13:13	03/19/13 17:28	1
Barium	**150**		1.1	0.34	mg/Kg	☼	03/18/13 13:13	03/19/13 17:28	1
Beryllium	**1.4**		0.45	0.022	mg/Kg	☼	03/18/13 13:13	03/19/13 17:28	1
Cadmium	0.56	U	0.56	0.11	mg/Kg	☼	03/18/13 13:13	03/19/13 17:28	1
Calcium	**800**		56	22	mg/Kg	☼	03/18/13 13:13	03/19/13 17:28	1
Chromium	**6.5**		1.1	0.56	mg/Kg	☼	03/18/13 13:13	03/19/13 17:28	1
Cobalt	**9.1**		1.1	0.13	mg/Kg	☼	03/18/13 13:13	03/19/13 17:28	1
Copper	**9.9**		2.8	1.2	mg/Kg	☼	03/18/13 13:13	03/19/13 17:28	1
Iron	**24000**		22	7.9	mg/Kg	☼	03/18/13 13:13	03/19/13 17:28	1
Lead	**7.2**		1.1	0.59	mg/Kg	☼	03/18/13 13:13	03/19/13 17:28	1
Magnesium	**2800**		56	2.7	mg/Kg	☼	03/18/13 13:13	03/19/13 17:28	1
Manganese	**110**		1.1	0.34	mg/Kg	☼	03/18/13 13:13	03/19/13 17:28	1
Nickel	**8.0**		4.5	0.35	mg/Kg	☼	03/18/13 13:13	03/19/13 17:28	1
Potassium	**2600**		110	9.0	mg/Kg	☼	03/18/13 13:13	03/19/13 17:28	1
Selenium	2.8	U	2.8	1.1	mg/Kg	☼	03/18/13 13:13	03/19/13 17:28	1
Silver	1.1	U	1.1	0.11	mg/Kg	☼	03/18/13 13:13	03/19/13 17:28	1
Sodium	220	U	220	92	mg/Kg	☼	03/18/13 13:13	03/19/13 17:28	1
Thallium	**1.3**	**J**	2.8	1.1	mg/Kg	☼	03/18/13 13:13	03/19/13 17:28	1
Vanadium	**38**		1.1	0.27	mg/Kg	☼	03/18/13 13:13	03/19/13 17:28	1
Zinc	**45**		2.2	1.3	mg/Kg	☼	03/18/13 13:13	03/19/13 17:28	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023	U	0.023	0.0096	mg/Kg	☼	03/18/13 11:25	03/20/13 19:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	1.2	U	1.2	0.37	mg/Kg	☼	03/18/13 10:55	03/20/13 12:23	1
Cyanide, Total	0.63	U	0.63	0.26	mg/Kg	☼	03/18/13 09:30	03/18/13 14:22	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Client Sample ID: TB-05-20130314-01
Date Collected: 03/14/13 00:00
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			03/28/13 13:48	1
Benzene	1.0	U	1.0	0.25	ug/L			03/28/13 13:48	1
Bromobenzene	1.0	U	1.0	0.16	ug/L			03/28/13 13:48	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/28/13 13:48	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			03/28/13 13:48	1
Bromoform	1.0	U	1.0	0.50	ug/L			03/28/13 13:48	1
Bromomethane	1.0	U	1.0	0.80	ug/L			03/28/13 13:48	1
2-Butanone	10	U	10	1.0	ug/L			03/28/13 13:48	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			03/28/13 13:48	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			03/28/13 13:48	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			03/28/13 13:48	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			03/28/13 13:48	1
Chloroethane	1.0	U	1.0	1.0	ug/L			03/28/13 13:48	1
Chloroform	1.0	U	1.0	0.14	ug/L			03/28/13 13:48	1
Chloromethane	1.0	U	1.0	0.33	ug/L			03/28/13 13:48	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/L			03/28/13 13:48	1
4-Chlorotoluene	1.0	U	1.0	0.27	ug/L			03/28/13 13:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			03/28/13 13:48	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			03/28/13 13:48	1
Cyclohexane	1.0	U	1.0	0.25	ug/L			03/28/13 13:48	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			03/28/13 13:48	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			03/28/13 13:48	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			03/28/13 13:48	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			03/28/13 13:48	1
1,3-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			03/28/13 13:48	1
1,4-Dichlorobenzene	1.0	U	1.0	0.28	ug/L			03/28/13 13:48	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			03/28/13 13:48	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			03/28/13 13:48	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			03/28/13 13:48	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			03/28/13 13:48	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			03/28/13 13:48	1
1,3-Dichloropropane	1.0	U	1.0	0.13	ug/L			03/28/13 13:48	1
2,2-Dichloropropane	1.0	U	1.0	0.12	ug/L			03/28/13 13:48	1
1,1-Dichloropropene	1.0	U	1.0	0.25	ug/L			03/28/13 13:48	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/28/13 13:48	1
Hexachlorobutadiene	1.0	U	1.0	0.40	ug/L			03/28/13 13:48	1
2-Hexanone	10	U	10	1.0	ug/L			03/28/13 13:48	1
Isopropylbenzene	1.0	U	1.0	0.10	ug/L			03/28/13 13:48	1
Methyl acetate	1.0	U	1.0	0.19	ug/L			03/28/13 13:48	1
Methylcyclohexane	1.0	U	1.0	0.10	ug/L			03/28/13 13:48	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			03/28/13 13:48	1
4-Methyl-2-pentanone	10	U	10	1.0	ug/L			03/28/13 13:48	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			03/28/13 13:48	1
Naphthalene	5.0	U	5.0	1.0	ug/L			03/28/13 13:48	1
n-Butylbenzene	1.0	U	1.0	0.10	ug/L			03/28/13 13:48	1
N-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/28/13 13:48	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/28/13 13:48	1
sec-Butylbenzene	1.0	U	1.0	0.16	ug/L			03/28/13 13:48	1
Styrene	1.0	U	1.0	0.11	ug/L			03/28/13 13:48	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Client Sample ID: TB-05-20130314-01
Date Collected: 03/14/13 00:00
Date Received: 03/14/13 16:05

Lab Sample ID: 680-88339-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	1.0	0.12	ug/L			03/28/13 13:48	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			03/28/13 13:48	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			03/28/13 13:48	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/28/13 13:48	1
Toluene	1.0	U	1.0	0.33	ug/L			03/28/13 13:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			03/28/13 13:48	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			03/28/13 13:48	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			03/28/13 13:48	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.25	ug/L			03/28/13 13:48	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			03/28/13 13:48	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			03/28/13 13:48	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			03/28/13 13:48	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			03/28/13 13:48	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			03/28/13 13:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			03/28/13 13:48	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			03/28/13 13:48	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			03/28/13 13:48	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			03/28/13 13:48	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			03/28/13 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*70 - 130*		*03/28/13 13:48*	*1*
Dibromofluoromethane	*108*		*70 - 130*		*03/28/13 13:48*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*03/28/13 13:48*	*1*

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

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

Lab Sample ID: MB 680-270151/7
Matrix: Solid
Analysis Batch: 270151

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.050	U	0.050	0.011	mg/Kg			03/20/13 18:04	1
Benzene	0.0050	U	0.0050	0.00073	mg/Kg			03/20/13 18:04	1
Bromobenzene	0.0050	U	0.0050	0.0017	mg/Kg			03/20/13 18:04	1
Bromochloromethane	0.0050	U	0.0050	0.0033	mg/Kg			03/20/13 18:04	1
Bromodichloromethane	0.0050	U	0.0050	0.00097	mg/Kg			03/20/13 18:04	1
Bromoform	0.0050	U	0.0050	0.0015	mg/Kg			03/20/13 18:04	1
Bromomethane	0.0050	U	0.0050	0.0015	mg/Kg			03/20/13 18:04	1
2-Butanone	0.025	U	0.025	0.0024	mg/Kg			03/20/13 18:04	1
Carbon disulfide	0.0050	U	0.0050	0.0011	mg/Kg			03/20/13 18:04	1
Carbon tetrachloride	0.0050	U	0.0050	0.00083	mg/Kg			03/20/13 18:04	1
Chlorobenzene	0.0050	U	0.0050	0.00096	mg/Kg			03/20/13 18:04	1
Chlorodibromomethane	0.0050	U	0.0050	0.0017	mg/Kg			03/20/13 18:04	1
Chloroethane	0.0050	U	0.0050	0.0027	mg/Kg			03/20/13 18:04	1
Chloroform	0.0050	U	0.0050	0.0011	mg/Kg			03/20/13 18:04	1
Chloromethane	0.0050	U	0.0050	0.0010	mg/Kg			03/20/13 18:04	1
2-Chlorotoluene	0.0050	U	0.0050	0.0020	mg/Kg			03/20/13 18:04	1
4-Chlorotoluene	0.0050	U	0.0050	0.0017	mg/Kg			03/20/13 18:04	1
cis-1,2-Dichloroethene	0.0050	U	0.0050	0.0014	mg/Kg			03/20/13 18:04	1
cis-1,3-Dichloropropene	0.0050	U	0.0050	0.00083	mg/Kg			03/20/13 18:04	1
Cyclohexane	0.010	U	0.010	0.0013	mg/Kg			03/20/13 18:04	1
1,2-Dibromo-3-Chloropropane	0.010	U	0.010	0.0044	mg/Kg			03/20/13 18:04	1
1,2-Dibromoethane	0.0050	U	0.0050	0.0015	mg/Kg			03/20/13 18:04	1
Dibromomethane	0.0050	U	0.0050	0.0017	mg/Kg			03/20/13 18:04	1
1,2-Dichlorobenzene	0.0050	U	0.0050	0.0013	mg/Kg			03/20/13 18:04	1
1,3-Dichlorobenzene	0.0050	U	0.0050	0.0016	mg/Kg			03/20/13 18:04	1
1,4-Dichlorobenzene	0.0050	U	0.0050	0.00074	mg/Kg			03/20/13 18:04	1
Dichlorodifluoromethane	0.0050	U	0.0050	0.00094	mg/Kg			03/20/13 18:04	1
1,1-Dichloroethane	0.0050	U	0.0050	0.0011	mg/Kg			03/20/13 18:04	1
1,2-Dichloroethane	0.0050	U	0.0050	0.0011	mg/Kg			03/20/13 18:04	1
1,1-Dichloroethene	0.0050	U	0.0050	0.0015	mg/Kg			03/20/13 18:04	1
1,2-Dichloropropane	0.0050	U	0.0050	0.00086	mg/Kg			03/20/13 18:04	1
1,3-Dichloropropane	0.0050	U	0.0050	0.0018	mg/Kg			03/20/13 18:04	1
2,2-Dichloropropane	0.0050	U	0.0050	0.0011	mg/Kg			03/20/13 18:04	1
1,1-Dichloropropene	0.0050	U	0.0050	0.00095	mg/Kg			03/20/13 18:04	1
Ethylbenzene	0.0050	U	0.0050	0.0013	mg/Kg			03/20/13 18:04	1
Hexachlorobutadiene	0.0050	U	0.0050	0.0031	mg/Kg			03/20/13 18:04	1
2-Hexanone	0.025	U	0.025	0.0033	mg/Kg			03/20/13 18:04	1
Isopropylbenzene	0.0050	U	0.0050	0.0019	mg/Kg			03/20/13 18:04	1
Methyl acetate	0.010	U	0.010	0.0050	mg/Kg			03/20/13 18:04	1
Methylcyclohexane	0.010	U	0.010	0.00086	mg/Kg			03/20/13 18:04	1
Methylene Chloride	0.0050	U	0.0050	0.00098	mg/Kg			03/20/13 18:04	1
4-Methyl-2-pentanone	0.025	U	0.025	0.0042	mg/Kg			03/20/13 18:04	1
Methyl tert-butyl ether	0.010	U	0.010	0.0010	mg/Kg			03/20/13 18:04	1
Naphthalene	0.0050	U	0.0050	0.0012	mg/Kg			03/20/13 18:04	1
n-Butylbenzene	0.0050	U	0.0050	0.0024	mg/Kg			03/20/13 18:04	1
N-Propylbenzene	0.0050	U	0.0050	0.0027	mg/Kg			03/20/13 18:04	1
p-Isopropyltoluene	0.0050	U	0.0050	0.0022	mg/Kg			03/20/13 18:04	1
sec-Butylbenzene	0.0050	U	0.0050	0.0021	mg/Kg			03/20/13 18:04	1

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

Lab Sample ID: MB 680-270151/7
Matrix: Solid
Analysis Batch: 270151

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.0050	U	0.0050	0.00093	mg/Kg			03/20/13 18:04	1
tert-Butylbenzene	0.0050	U	0.0050	0.0018	mg/Kg			03/20/13 18:04	1
1,1,1,2-Tetrachloroethane	0.0050	U	0.0050	0.0024	mg/Kg			03/20/13 18:04	1
1,1,2,2-Tetrachloroethane	0.0050	U	0.0050	0.0016	mg/Kg			03/20/13 18:04	1
Tetrachloroethene	0.0050	U	0.0050	0.0019	mg/Kg			03/20/13 18:04	1
Toluene	0.0050	U	0.0050	0.00084	mg/Kg			03/20/13 18:04	1
trans-1,2-Dichloroethene	0.0050	U	0.0050	0.00063	mg/Kg			03/20/13 18:04	1
trans-1,3-Dichloropropene	0.0050	U	0.0050	0.00087	mg/Kg			03/20/13 18:04	1
1,2,3-Trichlorobenzene	0.0050	U	0.0050	0.0016	mg/Kg			03/20/13 18:04	1
1,2,4-Trichlorobenzene	0.0050	U	0.0050	0.00089	mg/Kg			03/20/13 18:04	1
1,1,1-Trichloroethane	0.0050	U	0.0050	0.00059	mg/Kg			03/20/13 18:04	1
1,1,2-Trichloroethane	0.0050	U	0.0050	0.0013	mg/Kg			03/20/13 18:04	1
Trichloroethene	0.0050	U	0.0050	0.0013	mg/Kg			03/20/13 18:04	1
Trichlorofluoromethane	0.0050	U	0.0050	0.0012	mg/Kg			03/20/13 18:04	1
1,2,3-Trichloropropane	0.0050	U	0.0050	0.0024	mg/Kg			03/20/13 18:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0050	U	0.0050	0.0013	mg/Kg			03/20/13 18:04	1
1,2,4-Trimethylbenzene	0.0050	U	0.0050	0.0014	mg/Kg			03/20/13 18:04	1
1,3,5-Trimethylbenzene	0.0050	U	0.0050	0.0017	mg/Kg			03/20/13 18:04	1
Vinyl chloride	0.0050	U	0.0050	0.0015	mg/Kg			03/20/13 18:04	1
Xylenes, Total	0.010	U	0.010	0.0011	mg/Kg			03/20/13 18:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*65 - 130*		*03/20/13 18:04*	*1*
Dibromofluoromethane	*90*		*65 - 130*		*03/20/13 18:04*	*1*
Toluene-d8 (Surr)	*88*		*65 - 130*		*03/20/13 18:04*	*1*

Lab Sample ID: LCS 680-270151/4
Matrix: Solid
Analysis Batch: 270151

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.100	0.155	*	mg/Kg		155	54 - 139
Benzene	0.0500	0.0505		mg/Kg		101	76 - 120
Bromobenzene	0.0500	0.0489		mg/Kg		98	77 - 131
Bromochloromethane	0.0500	0.0481		mg/Kg		96	80 - 120
Bromodichloromethane	0.0500	0.0563		mg/Kg		113	72 - 131
Bromoform	0.0500	0.0552		mg/Kg		110	64 - 150
Bromomethane	0.0500	0.0439		mg/Kg		88	10 - 174
2-Butanone	0.100	0.111		mg/Kg		111	66 - 123
Carbon disulfide	0.0500	0.0410		mg/Kg		82	74 - 125
Carbon tetrachloride	0.0500	0.0480		mg/Kg		96	67 - 140
Chlorobenzene	0.0500	0.0482		mg/Kg		96	80 - 120
Chlorodibromomethane	0.0500	0.0560		mg/Kg		112	77 - 132
Chloroethane	0.0500	0.0427		mg/Kg		85	10 - 176
Chloroform	0.0500	0.0433		mg/Kg		87	80 - 121
Chloromethane	0.0500	0.0415		mg/Kg		83	48 - 146
2-Chlorotoluene	0.0500	0.0461		mg/Kg		92	77 - 124
4-Chlorotoluene	0.0500	0.0460		mg/Kg		92	78 - 124

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

Lab Sample ID: LCS 680-270151/4
Matrix: Solid
Analysis Batch: 270151

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	0.0500	0.0436		mg/Kg		87	80 - 120
cis-1,3-Dichloropropene	0.0500	0.0564		mg/Kg		113	74 - 125
Cyclohexane	0.0500	0.0481		mg/Kg		96	70 - 130
1,2-Dibromo-3-Chloropropane	0.0500	0.0588		mg/Kg		118	49 - 152
1,2-Dibromoethane	0.0500	0.0605		mg/Kg		121	72 - 129
Dibromomethane	0.0500	0.0585		mg/Kg		117	73 - 127
1,2-Dichlorobenzene	0.0500	0.0481		mg/Kg		96	75 - 128
1,3-Dichlorobenzene	0.0500	0.0462		mg/Kg		92	76 - 128
1,4-Dichlorobenzene	0.0500	0.0469		mg/Kg		94	76 - 128
Dichlorodifluoromethane	0.0500	0.0393		mg/Kg		79	72 - 134
1,1-Dichloroethane	0.0500	0.0433		mg/Kg		87	80 - 120
1,2-Dichloroethane	0.0500	0.0570		mg/Kg		114	61 - 140
1,1-Dichloroethene	0.0500	0.0417		mg/Kg		83	64 - 138
1,2-Dichloropropane	0.0500	0.0532		mg/Kg		106	73 - 121
1,3-Dichloropropane	0.0500	0.0580		mg/Kg		116	70 - 126
2,2-Dichloropropane	0.0500	0.0405		mg/Kg		81	78 - 126
1,1-Dichloropropene	0.0500	0.0475		mg/Kg		95	74 - 124
Ethylbenzene	0.0500	0.0463		mg/Kg		93	78 - 121
Hexachlorobutadiene	0.0500	0.0445		mg/Kg		89	70 - 146
2-Hexanone	0.100	0.130	*	mg/Kg		130	60 - 126
Isopropylbenzene	0.0500	0.0449		mg/Kg		90	79 - 124
Methyl acetate	0.0500	0.0519		mg/Kg		104	43 - 135
Methylcyclohexane	0.0500	0.0476		mg/Kg		95	77 - 118
Methylene Chloride	0.0500	0.0455		mg/Kg		91	80 - 120
4-Methyl-2-pentanone	0.100	0.122		mg/Kg		122	59 - 127
Methyl tert-butyl ether	0.100	0.104		mg/Kg		104	80 - 121
Naphthalene	0.0500	0.0599		mg/Kg		120	71 - 138
n-Butylbenzene	0.0500	0.0442		mg/Kg		88	78 - 121
N-Propylbenzene	0.0500	0.0448		mg/Kg		90	78 - 125
p-Isopropyltoluene	0.0500	0.0437		mg/Kg		87	78 - 125
sec-Butylbenzene	0.0500	0.0438		mg/Kg		88	77 - 123
Styrene	0.0500	0.0483		mg/Kg		97	78 - 123
tert-Butylbenzene	0.0500	0.0432		mg/Kg		86	79 - 127
1,1,1,2-Tetrachloroethane	0.0500	0.0502		mg/Kg		100	80 - 129
1,1,2,2-Tetrachloroethane	0.0500	0.0513		mg/Kg		103	70 - 123
Tetrachloroethene	0.0500	0.0442		mg/Kg		88	77 - 130
Toluene	0.0500	0.0501		mg/Kg		100	73 - 122
trans-1,2-Dichloroethene	0.0500	0.0418		mg/Kg		84	79 - 120
trans-1,3-Dichloropropene	0.0500	0.0577		mg/Kg		115	69 - 133
1,2,3-Trichlorobenzene	0.0500	0.0572		mg/Kg		114	74 - 146
1,2,4-Trichlorobenzene	0.0500	0.0491		mg/Kg		98	77 - 142
1,1,1-Trichloroethane	0.0500	0.0484		mg/Kg		97	73 - 132
1,1,2-Trichloroethane	0.0500	0.0584		mg/Kg		117	72 - 124
Trichloroethene	0.0500	0.0489		mg/Kg		98	78 - 125
Trichlorofluoromethane	0.0500	0.0402		mg/Kg		80	60 - 148
1,2,3-Trichloropropane	0.0500	0.0543		mg/Kg		109	67 - 132
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.0408		mg/Kg		82	62 - 141

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

Lab Sample ID: LCS 680-270151/4
Matrix: Solid
Analysis Batch: 270151

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	0.0500	0.0457		mg/Kg		91	77 - 126
1,3,5-Trimethylbenzene	0.0500	0.0458		mg/Kg		92	77 - 126
Vinyl chloride	0.0500	0.0411		mg/Kg		82	65 - 133
Xylenes, Total	0.150	0.140		mg/Kg		93	79 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*65 - 130*
Dibromofluoromethane	*92*		*65 - 130*
Toluene-d8 (Surr)	*100*		*65 - 130*

Lab Sample ID: LCSD 680-270151/5
Matrix: Solid
Analysis Batch: 270151

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.100	0.148	*	mg/Kg		148	54 - 139	4	50
Benzene	0.0500	0.0542		mg/Kg		108	76 - 120	7	50
Bromobenzene	0.0500	0.0517		mg/Kg		103	77 - 131	6	50
Bromochloromethane	0.0500	0.0515		mg/Kg		103	80 - 120	7	50
Bromodichloromethane	0.0500	0.0587		mg/Kg		117	72 - 131	4	50
Bromoform	0.0500	0.0548		mg/Kg		110	64 - 150	1	50
Bromomethane	0.0500	0.0499		mg/Kg		100	10 - 174	13	50
2-Butanone	0.100	0.106		mg/Kg		106	66 - 123	5	50
Carbon disulfide	0.0500	0.0482		mg/Kg		96	74 - 125	16	50
Carbon tetrachloride	0.0500	0.0528		mg/Kg		106	67 - 140	10	50
Chlorobenzene	0.0500	0.0524		mg/Kg		105	80 - 120	8	50
Chlorodibromomethane	0.0500	0.0554		mg/Kg		111	77 - 132	1	50
Chloroethane	0.0500	0.0472		mg/Kg		94	10 - 176	10	50
Chloroform	0.0500	0.0482		mg/Kg		96	80 - 121	11	50
Chloromethane	0.0500	0.0475		mg/Kg		95	48 - 146	14	50
2-Chlorotoluene	0.0500	0.0491		mg/Kg		98	77 - 124	6	50
4-Chlorotoluene	0.0500	0.0488		mg/Kg		98	78 - 124	6	50
cis-1,2-Dichloroethene	0.0500	0.0479		mg/Kg		96	80 - 120	9	50
cis-1,3-Dichloropropene	0.0500	0.0575		mg/Kg		115	74 - 125	2	50
Cyclohexane	0.0500	0.0521		mg/Kg		104	70 - 130	8	50
1,2-Dibromo-3-Chloropropane	0.0500	0.0554		mg/Kg		111	49 - 152	6	50
1,2-Dibromoethane	0.0500	0.0580		mg/Kg		116	72 - 129	4	50
Dibromomethane	0.0500	0.0584		mg/Kg		117	73 - 127	0	50
1,2-Dichlorobenzene	0.0500	0.0506		mg/Kg		101	75 - 128	5	50
1,3-Dichlorobenzene	0.0500	0.0496		mg/Kg		99	76 - 128	7	50
1,4-Dichlorobenzene	0.0500	0.0488		mg/Kg		98	76 - 128	4	50
Dichlorodifluoromethane	0.0500	0.0449		mg/Kg		90	72 - 134	13	50
1,1-Dichloroethane	0.0500	0.0485		mg/Kg		97	80 - 120	11	50
1,2-Dichloroethane	0.0500	0.0577		mg/Kg		115	61 - 140	1	50
1,1-Dichloroethene	0.0500	0.0416		mg/Kg		83	64 - 138	0	50
1,2-Dichloropropane	0.0500	0.0563		mg/Kg		113	73 - 121	6	50
1,3-Dichloropropane	0.0500	0.0587		mg/Kg		117	70 - 126	1	50
2,2-Dichloropropane	0.0500	0.0469		mg/Kg		94	78 - 126	15	50

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

Lab Sample ID: LCSD 680-270151/5
Matrix: Solid
Analysis Batch: 270151

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloropropene	0.0500	0.0520		mg/Kg		104	74 - 124	9	50
Ethylbenzene	0.0500	0.0512		mg/Kg		102	78 - 121	10	50
Hexachlorobutadiene	0.0500	0.0474		mg/Kg		95	70 - 146	6	50
2-Hexanone	0.100	0.121		mg/Kg		121	60 - 126	8	50
Isopropylbenzene	0.0500	0.0491		mg/Kg		98	79 - 124	9	50
Methyl acetate	0.0500	0.0506		mg/Kg		101	43 - 135	3	50
Methylcyclohexane	0.0500	0.0517		mg/Kg		103	77 - 118	8	50
Methylene Chloride	0.0500	0.0494		mg/Kg		99	80 - 120	8	50
4-Methyl-2-pentanone	0.100	0.113		mg/Kg		113	59 - 127	8	50
Methyl tert-butyl ether	0.100	0.106		mg/Kg		106	80 - 121	2	50
Naphthalene	0.0500	0.0567		mg/Kg		113	71 - 138	6	50
n-Butylbenzene	0.0500	0.0472		mg/Kg		94	78 - 121	7	50
N-Propylbenzene	0.0500	0.0499		mg/Kg		100	78 - 125	11	50
p-Isopropyltoluene	0.0500	0.0473		mg/Kg		95	78 - 125	8	50
sec-Butylbenzene	0.0500	0.0475		mg/Kg		95	77 - 123	8	50
Styrene	0.0500	0.0527		mg/Kg		105	78 - 123	9	50
tert-Butylbenzene	0.0500	0.0462		mg/Kg		92	79 - 127	7	50
1,1,1,2-Tetrachloroethane	0.0500	0.0531		mg/Kg		106	80 - 129	6	50
1,1,2,2-Tetrachloroethane	0.0500	0.0495		mg/Kg		99	70 - 123	4	50
Tetrachloroethene	0.0500	0.0492		mg/Kg		98	77 - 130	11	50
Toluene	0.0500	0.0540		mg/Kg		108	73 - 122	8	50
trans-1,2-Dichloroethene	0.0500	0.0476		mg/Kg		95	79 - 120	13	50
trans-1,3-Dichloropropene	0.0500	0.0572		mg/Kg		114	69 - 133	1	50
1,2,3-Trichlorobenzene	0.0500	0.0577		mg/Kg		115	74 - 146	1	50
1,2,4-Trichlorobenzene	0.0500	0.0510		mg/Kg		102	77 - 142	4	50
1,1,1-Trichloroethane	0.0500	0.0526		mg/Kg		105	73 - 132	8	50
1,1,2-Trichloroethane	0.0500	0.0580		mg/Kg		116	72 - 124	1	50
Trichloroethene	0.0500	0.0529		mg/Kg		106	78 - 125	8	50
Trichlorofluoromethane	0.0500	0.0467		mg/Kg		93	60 - 148	15	50
1,2,3-Trichloropropane	0.0500	0.0499		mg/Kg		100	67 - 132	8	50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.0413		mg/Kg		83	62 - 141	1	50
1,2,4-Trimethylbenzene	0.0500	0.0494		mg/Kg		99	77 - 126	8	50
1,3,5-Trimethylbenzene	0.0500	0.0489		mg/Kg		98	77 - 126	7	50
Vinyl chloride	0.0500	0.0469		mg/Kg		94	65 - 133	13	50
Xylenes, Total	0.150	0.152		mg/Kg		102	79 - 121	9	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*65 - 130*
Dibromofluoromethane	*101*		*65 - 130*
Toluene-d8 (Surr)	*107*		*65 - 130*

Lab Sample ID: MB 680-270344/7
Matrix: Solid
Analysis Batch: 270344

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.050	U	0.050	0.011	mg/Kg			03/21/13 11:48	1

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

Lab Sample ID: MB 680-270344/7
Matrix: Solid
Analysis Batch: 270344

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0050	U	0.0050	0.00073	mg/Kg			03/21/13 11:48	1
Bromobenzene	0.0050	U	0.0050	0.0017	mg/Kg			03/21/13 11:48	1
Bromochloromethane	0.0050	U	0.0050	0.0033	mg/Kg			03/21/13 11:48	1
Bromodichloromethane	0.0050	U	0.0050	0.00097	mg/Kg			03/21/13 11:48	1
Bromoform	0.0050	U	0.0050	0.0015	mg/Kg			03/21/13 11:48	1
Bromomethane	0.0050	U	0.0050	0.0015	mg/Kg			03/21/13 11:48	1
2-Butanone	0.025	U	0.025	0.0024	mg/Kg			03/21/13 11:48	1
Carbon disulfide	0.0050	U	0.0050	0.0011	mg/Kg			03/21/13 11:48	1
Carbon tetrachloride	0.0050	U	0.0050	0.00083	mg/Kg			03/21/13 11:48	1
Chlorobenzene	0.0050	U	0.0050	0.00096	mg/Kg			03/21/13 11:48	1
Chlorodibromomethane	0.0050	U	0.0050	0.0017	mg/Kg			03/21/13 11:48	1
Chloroethane	0.0050	U	0.0050	0.0027	mg/Kg			03/21/13 11:48	1
Chloroform	0.0050	U	0.0050	0.0011	mg/Kg			03/21/13 11:48	1
Chloromethane	0.0050	U	0.0050	0.0010	mg/Kg			03/21/13 11:48	1
2-Chlorotoluene	0.0050	U	0.0050	0.0020	mg/Kg			03/21/13 11:48	1
4-Chlorotoluene	0.0050	U	0.0050	0.0017	mg/Kg			03/21/13 11:48	1
cis-1,2-Dichloroethene	0.0050	U	0.0050	0.0014	mg/Kg			03/21/13 11:48	1
cis-1,3-Dichloropropene	0.0050	U	0.0050	0.00083	mg/Kg			03/21/13 11:48	1
Cyclohexane	0.010	U	0.010	0.0013	mg/Kg			03/21/13 11:48	1
1,2-Dibromo-3-Chloropropane	0.010	U	0.010	0.0044	mg/Kg			03/21/13 11:48	1
1,2-Dibromoethane	0.0050	U	0.0050	0.0015	mg/Kg			03/21/13 11:48	1
Dibromomethane	0.0050	U	0.0050	0.0017	mg/Kg			03/21/13 11:48	1
1,2-Dichlorobenzene	0.0050	U	0.0050	0.0013	mg/Kg			03/21/13 11:48	1
1,3-Dichlorobenzene	0.0050	U	0.0050	0.0016	mg/Kg			03/21/13 11:48	1
1,4-Dichlorobenzene	0.0050	U	0.0050	0.00074	mg/Kg			03/21/13 11:48	1
Dichlorodifluoromethane	0.0050	U	0.0050	0.00094	mg/Kg			03/21/13 11:48	1
1,1-Dichloroethane	0.0050	U	0.0050	0.0011	mg/Kg			03/21/13 11:48	1
1,2-Dichloroethane	0.0050	U	0.0050	0.0011	mg/Kg			03/21/13 11:48	1
1,1-Dichloroethene	0.0050	U	0.0050	0.0015	mg/Kg			03/21/13 11:48	1
1,2-Dichloropropane	0.0050	U	0.0050	0.00086	mg/Kg			03/21/13 11:48	1
1,3-Dichloropropane	0.0050	U	0.0050	0.0018	mg/Kg			03/21/13 11:48	1
2,2-Dichloropropane	0.0050	U	0.0050	0.0011	mg/Kg			03/21/13 11:48	1
1,1-Dichloropropene	0.0050	U	0.0050	0.00095	mg/Kg			03/21/13 11:48	1
Ethylbenzene	0.0050	U	0.0050	0.0013	mg/Kg			03/21/13 11:48	1
Hexachlorobutadiene	0.0050	U	0.0050	0.0031	mg/Kg			03/21/13 11:48	1
2-Hexanone	0.025	U	0.025	0.0033	mg/Kg			03/21/13 11:48	1
Isopropylbenzene	0.0050	U	0.0050	0.0019	mg/Kg			03/21/13 11:48	1
Methyl acetate	0.010	U	0.010	0.0050	mg/Kg			03/21/13 11:48	1
Methylcyclohexane	0.010	U	0.010	0.00086	mg/Kg			03/21/13 11:48	1
Methylene Chloride	0.0050	U	0.0050	0.00098	mg/Kg			03/21/13 11:48	1
4-Methyl-2-pentanone	0.025	U	0.025	0.0042	mg/Kg			03/21/13 11:48	1
Methyl tert-butyl ether	0.010	U	0.010	0.0010	mg/Kg			03/21/13 11:48	1
Naphthalene	0.0050	U	0.0050	0.0012	mg/Kg			03/21/13 11:48	1
n-Butylbenzene	0.0050	U	0.0050	0.0024	mg/Kg			03/21/13 11:48	1
N-Propylbenzene	0.0050	U	0.0050	0.0027	mg/Kg			03/21/13 11:48	1
p-Isopropyltoluene	0.0050	U	0.0050	0.0022	mg/Kg			03/21/13 11:48	1
sec-Butylbenzene	0.0050	U	0.0050	0.0021	mg/Kg			03/21/13 11:48	1
Styrene	0.0050	U	0.0050	0.00093	mg/Kg			03/21/13 11:48	1

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

Lab Sample ID: MB 680-270344/7
Matrix: Solid
Analysis Batch: 270344

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.0050	U	0.0050	0.0018	mg/Kg			03/21/13 11:48	1
1,1,1,2-Tetrachloroethane	0.0050	U	0.0050	0.0024	mg/Kg			03/21/13 11:48	1
1,1,2,2-Tetrachloroethane	0.0050	U	0.0050	0.0016	mg/Kg			03/21/13 11:48	1
Tetrachloroethene	0.0050	U	0.0050	0.0019	mg/Kg			03/21/13 11:48	1
Toluene	0.0050	U	0.0050	0.00084	mg/Kg			03/21/13 11:48	1
trans-1,2-Dichloroethene	0.0050	U	0.0050	0.00063	mg/Kg			03/21/13 11:48	1
trans-1,3-Dichloropropene	0.0050	U	0.0050	0.00087	mg/Kg			03/21/13 11:48	1
1,2,3-Trichlorobenzene	0.0050	U	0.0050	0.0016	mg/Kg			03/21/13 11:48	1
1,2,4-Trichlorobenzene	0.0050	U	0.0050	0.00089	mg/Kg			03/21/13 11:48	1
1,1,1-Trichloroethane	0.0050	U	0.0050	0.00059	mg/Kg			03/21/13 11:48	1
1,1,2-Trichloroethane	0.0050	U	0.0050	0.0013	mg/Kg			03/21/13 11:48	1
Trichloroethene	0.0050	U	0.0050	0.0013	mg/Kg			03/21/13 11:48	1
Trichlorofluoromethane	0.0050	U	0.0050	0.0012	mg/Kg			03/21/13 11:48	1
1,2,3-Trichloropropane	0.0050	U	0.0050	0.0024	mg/Kg			03/21/13 11:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0050	U	0.0050	0.0013	mg/Kg			03/21/13 11:48	1
1,2,4-Trimethylbenzene	0.0050	U	0.0050	0.0014	mg/Kg			03/21/13 11:48	1
1,3,5-Trimethylbenzene	0.0050	U	0.0050	0.0017	mg/Kg			03/21/13 11:48	1
Vinyl chloride	0.0050	U	0.0050	0.0015	mg/Kg			03/21/13 11:48	1
Xylenes, Total	0.010	U	0.010	0.0011	mg/Kg			03/21/13 11:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*65 - 130*		*03/21/13 11:48*	*1*
Dibromofluoromethane	*90*		*65 - 130*		*03/21/13 11:48*	*1*
Toluene-d8 (Surr)	*89*		*65 - 130*		*03/21/13 11:48*	*1*

Lab Sample ID: LCS 680-270344/4
Matrix: Solid
Analysis Batch: 270344

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.100	0.118		mg/Kg		118	54 - 139
Benzene	0.0500	0.0446		mg/Kg		89	76 - 120
Bromobenzene	0.0500	0.0436		mg/Kg		87	77 - 131
Bromochloromethane	0.0500	0.0455		mg/Kg		91	80 - 120
Bromodichloromethane	0.0500	0.0484		mg/Kg		97	72 - 131
Bromoform	0.0500	0.0454		mg/Kg		91	64 - 150
Bromomethane	0.0500	0.0480		mg/Kg		96	10 - 174
2-Butanone	0.100	0.0945		mg/Kg		95	66 - 123
Carbon disulfide	0.0500	0.0431		mg/Kg		86	74 - 125
Carbon tetrachloride	0.0500	0.0434		mg/Kg		87	67 - 140
Chlorobenzene	0.0500	0.0437		mg/Kg		87	80 - 120
Chlorodibromomethane	0.0500	0.0469		mg/Kg		94	77 - 132
Chloroethane	0.0500	0.0468		mg/Kg		94	10 - 176
Chloroform	0.0500	0.0430		mg/Kg		86	80 - 121
Chloromethane	0.0500	0.0462		mg/Kg		92	48 - 146
2-Chlorotoluene	0.0500	0.0429		mg/Kg		86	77 - 124
4-Chlorotoluene	0.0500	0.0423		mg/Kg		85	78 - 124
cis-1,2-Dichloroethene	0.0500	0.0434		mg/Kg		87	80 - 120

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

Lab Sample ID: LCS 680-270344/4
Matrix: Solid
Analysis Batch: 270344

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	0.0500	0.0488		mg/Kg		98	74 - 125
Cyclohexane	0.0500	0.0440		mg/Kg		88	70 - 130
1,2-Dibromo-3-Chloropropane	0.0500	0.0467		mg/Kg		93	49 - 152
1,2-Dibromoethane	0.0500	0.0481		mg/Kg		96	72 - 129
Dibromomethane	0.0500	0.0489		mg/Kg		98	73 - 127
1,2-Dichlorobenzene	0.0500	0.0427		mg/Kg		85	75 - 128
1,3-Dichlorobenzene	0.0500	0.0425		mg/Kg		85	76 - 128
1,4-Dichlorobenzene	0.0500	0.0424		mg/Kg		85	76 - 128
Dichlorodifluoromethane	0.0500	0.0428		mg/Kg		86	72 - 134
1,1-Dichloroethane	0.0500	0.0431		mg/Kg		86	80 - 120
1,2-Dichloroethane	0.0500	0.0482		mg/Kg		96	61 - 140
1,1-Dichloroethene	0.0500	0.0386		mg/Kg		77	64 - 138
1,2-Dichloropropane	0.0500	0.0469		mg/Kg		94	73 - 121
1,3-Dichloropropane	0.0500	0.0477		mg/Kg		95	70 - 126
2,2-Dichloropropane	0.0500	0.0434		mg/Kg		87	78 - 126
1,1-Dichloropropene	0.0500	0.0436		mg/Kg		87	74 - 124
Ethylbenzene	0.0500	0.0432		mg/Kg		86	78 - 121
Hexachlorobutadiene	0.0500	0.0406		mg/Kg		81	70 - 146
2-Hexanone	0.100	0.102		mg/Kg		102	60 - 126
Isopropylbenzene	0.0500	0.0417		mg/Kg		83	79 - 124
Methyl acetate	0.0500	0.0467		mg/Kg		93	43 - 135
Methylcyclohexane	0.0500	0.0428		mg/Kg		86	77 - 118
Methylene Chloride	0.0500	0.0452		mg/Kg		90	80 - 120
4-Methyl-2-pentanone	0.100	0.0954		mg/Kg		95	59 - 127
Methyl tert-butyl ether	0.100	0.0957		mg/Kg		96	80 - 121
Naphthalene	0.0500	0.0497		mg/Kg		99	71 - 138
n-Butylbenzene	0.0500	0.0415		mg/Kg		83	78 - 121
N-Propylbenzene	0.0500	0.0414		mg/Kg		83	78 - 125
p-Isopropyltoluene	0.0500	0.0406		mg/Kg		81	78 - 125
sec-Butylbenzene	0.0500	0.0406		mg/Kg		81	77 - 123
Styrene	0.0500	0.0443		mg/Kg		89	78 - 123
tert-Butylbenzene	0.0500	0.0395		mg/Kg		79	79 - 127
1,1,1,2-Tetrachloroethane	0.0500	0.0453		mg/Kg		91	80 - 129
1,1,2,2-Tetrachloroethane	0.0500	0.0417		mg/Kg		83	70 - 123
Tetrachloroethene	0.0500	0.0408		mg/Kg		82	77 - 130
Toluene	0.0500	0.0449		mg/Kg		90	73 - 122
trans-1,2-Dichloroethene	0.0500	0.0427		mg/Kg		85	79 - 120
trans-1,3-Dichloropropene	0.0500	0.0481		mg/Kg		96	69 - 133
1,2,3-Trichlorobenzene	0.0500	0.0507		mg/Kg		101	74 - 146
1,2,4-Trichlorobenzene	0.0500	0.0453		mg/Kg		91	77 - 142
1,1,1-Trichloroethane	0.0500	0.0436		mg/Kg		87	73 - 132
1,1,2-Trichloroethane	0.0500	0.0470		mg/Kg		94	72 - 124
Trichloroethene	0.0500	0.0433		mg/Kg		87	78 - 125
Trichlorofluoromethane	0.0500	0.0430		mg/Kg		86	60 - 148
1,2,3-Trichloropropane	0.0500	0.0424		mg/Kg		85	67 - 132
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.0389		mg/Kg		78	62 - 141
1,2,4-Trimethylbenzene	0.0500	0.0425		mg/Kg		85	77 - 126

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

Lab Sample ID: LCS 680-270344/4
Matrix: Solid
Analysis Batch: 270344

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	0.0500	0.0421		mg/Kg		84	77 - 126
Vinyl chloride	0.0500	0.0452		mg/Kg		90	65 - 133
Xylenes, Total	0.150	0.129		mg/Kg		86	79 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*87*		*65 - 130*
Dibromofluoromethane	*89*		*65 - 130*
Toluene-d8 (Surr)	*88*		*65 - 130*

Lab Sample ID: LCSD 680-270344/5
Matrix: Solid
Analysis Batch: 270344

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.100	0.130		mg/Kg		130	54 - 139	9	50
Benzene	0.0500	0.0497		mg/Kg		99	76 - 120	11	50
Bromobenzene	0.0500	0.0470		mg/Kg		94	77 - 131	7	50
Bromochloromethane	0.0500	0.0487		mg/Kg		97	80 - 120	7	50
Bromodichloromethane	0.0500	0.0506		mg/Kg		101	72 - 131	5	50
Bromoform	0.0500	0.0478		mg/Kg		96	64 - 150	5	50
Bromomethane	0.0500	0.0510		mg/Kg		102	10 - 174	6	50
2-Butanone	0.100	0.0919		mg/Kg		92	66 - 123	3	50
Carbon disulfide	0.0500	0.0480		mg/Kg		96	74 - 125	11	50
Carbon tetrachloride	0.0500	0.0484		mg/Kg		97	67 - 140	11	50
Chlorobenzene	0.0500	0.0477		mg/Kg		95	80 - 120	9	50
Chlorodibromomethane	0.0500	0.0514		mg/Kg		103	77 - 132	9	50
Chloroethane	0.0500	0.0499		mg/Kg		100	10 - 176	7	50
Chloroform	0.0500	0.0469		mg/Kg		94	80 - 121	9	50
Chloromethane	0.0500	0.0491		mg/Kg		98	48 - 146	6	50
2-Chlorotoluene	0.0500	0.0452		mg/Kg		90	77 - 124	5	50
4-Chlorotoluene	0.0500	0.0453		mg/Kg		91	78 - 124	7	50
cis-1,2-Dichloroethene	0.0500	0.0478		mg/Kg		96	80 - 120	10	50
cis-1,3-Dichloropropene	0.0500	0.0510		mg/Kg		102	74 - 125	4	50
Cyclohexane	0.0500	0.0482		mg/Kg		96	70 - 130	9	50
1,2-Dibromo-3-Chloropropane	0.0500	0.0463		mg/Kg		93	49 - 152	1	50
1,2-Dibromoethane	0.0500	0.0507		mg/Kg		101	72 - 129	5	50
Dibromomethane	0.0500	0.0503		mg/Kg		101	73 - 127	3	50
1,2-Dichlorobenzene	0.0500	0.0456		mg/Kg		91	75 - 128	7	50
1,3-Dichlorobenzene	0.0500	0.0461		mg/Kg		92	76 - 128	8	50
1,4-Dichlorobenzene	0.0500	0.0443		mg/Kg		89	76 - 128	4	50
Dichlorodifluoromethane	0.0500	0.0470		mg/Kg		94	72 - 134	9	50
1,1-Dichloroethane	0.0500	0.0473		mg/Kg		95	80 - 120	9	50
1,2-Dichloroethane	0.0500	0.0502		mg/Kg		100	61 - 140	4	50
1,1-Dichloroethene	0.0500	0.0463		mg/Kg		93	64 - 138	18	50
1,2-Dichloropropane	0.0500	0.0511		mg/Kg		102	73 - 121	9	50
1,3-Dichloropropane	0.0500	0.0506		mg/Kg		101	70 - 126	6	50
2,2-Dichloropropane	0.0500	0.0464		mg/Kg		93	78 - 126	7	50
1,1-Dichloropropene	0.0500	0.0477		mg/Kg		95	74 - 124	9	50

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

Lab Sample ID: LCSD 680-270344/5
Matrix: Solid
Analysis Batch: 270344

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	0.0500	0.0476		mg/Kg		95	78 - 121	10	50
Hexachlorobutadiene	0.0500	0.0427		mg/Kg		85	70 - 146	5	50
2-Hexanone	0.100	0.0998		mg/Kg		100	60 - 126	2	50
Isopropylbenzene	0.0500	0.0460		mg/Kg		92	79 - 124	10	50
Methyl acetate	0.0500	0.0460		mg/Kg		92	43 - 135	2	50
Methylcyclohexane	0.0500	0.0472		mg/Kg		94	77 - 118	10	50
Methylene Chloride	0.0500	0.0488		mg/Kg		98	80 - 120	8	50
4-Methyl-2-pentanone	0.100	0.0927		mg/Kg		93	59 - 127	3	50
Methyl tert-butyl ether	0.100	0.0988		mg/Kg		99	80 - 121	3	50
Naphthalene	0.0500	0.0502		mg/Kg		100	71 - 138	1	50
n-Butylbenzene	0.0500	0.0438		mg/Kg		88	78 - 121	6	50
N-Propylbenzene	0.0500	0.0457		mg/Kg		91	78 - 125	10	50
p-Isopropyltoluene	0.0500	0.0442		mg/Kg		88	78 - 125	9	50
sec-Butylbenzene	0.0500	0.0438		mg/Kg		88	77 - 123	8	50
Styrene	0.0500	0.0478		mg/Kg		96	78 - 123	8	50
tert-Butylbenzene	0.0500	0.0433		mg/Kg		87	79 - 127	9	50
1,1,1,2-Tetrachloroethane	0.0500	0.0485		mg/Kg		97	80 - 129	7	50
1,1,2,2-Tetrachloroethane	0.0500	0.0430		mg/Kg		86	70 - 123	3	50
Tetrachloroethene	0.0500	0.0463		mg/Kg		93	77 - 130	13	50
Toluene	0.0500	0.0487		mg/Kg		97	73 - 122	8	50
trans-1,2-Dichloroethene	0.0500	0.0467		mg/Kg		93	79 - 120	9	50
trans-1,3-Dichloropropene	0.0500	0.0508		mg/Kg		102	69 - 133	6	50
1,2,3-Trichlorobenzene	0.0500	0.0508		mg/Kg		102	74 - 146	0	50
1,2,4-Trichlorobenzene	0.0500	0.0461		mg/Kg		92	77 - 142	2	50
1,1,1-Trichloroethane	0.0500	0.0479		mg/Kg		96	73 - 132	9	50
1,1,2-Trichloroethane	0.0500	0.0485		mg/Kg		97	72 - 124	3	50
Trichloroethene	0.0500	0.0476		mg/Kg		95	78 - 125	9	50
Trichlorofluoromethane	0.0500	0.0472		mg/Kg		94	60 - 148	9	50
1,2,3-Trichloropropane	0.0500	0.0440		mg/Kg		88	67 - 132	4	50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.0445		mg/Kg		89	62 - 141	13	50
1,2,4-Trimethylbenzene	0.0500	0.0456		mg/Kg		91	77 - 126	7	50
1,3,5-Trimethylbenzene	0.0500	0.0459		mg/Kg		92	77 - 126	9	50
Vinyl chloride	0.0500	0.0494		mg/Kg		99	65 - 133	9	50
Xylenes, Total	0.150	0.142		mg/Kg		95	79 - 121	10	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*65 - 130*
Dibromofluoromethane	*96*		*65 - 130*
Toluene-d8 (Surr)	*98*		*65 - 130*

Lab Sample ID: MB 680-270346/7
Matrix: Solid
Analysis Batch: 270346

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.050	U	0.050	0.011	mg/Kg			03/21/13 19:39	1
Benzene	0.0050	U	0.0050	0.00073	mg/Kg			03/21/13 19:39	1

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

Lab Sample ID: MB 680-270346/7
Matrix: Solid
Analysis Batch: 270346

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	0.0050	U	0.0050	0.0017	mg/Kg			03/21/13 19:39	1
Bromochloromethane	0.0050	U	0.0050	0.0033	mg/Kg			03/21/13 19:39	1
Bromodichloromethane	0.0050	U	0.0050	0.00097	mg/Kg			03/21/13 19:39	1
Bromoform	0.0050	U	0.0050	0.0015	mg/Kg			03/21/13 19:39	1
Bromomethane	0.0050	U	0.0050	0.0015	mg/Kg			03/21/13 19:39	1
2-Butanone	0.025	U	0.025	0.0024	mg/Kg			03/21/13 19:39	1
Carbon disulfide	0.0050	U	0.0050	0.0011	mg/Kg			03/21/13 19:39	1
Carbon tetrachloride	0.0050	U	0.0050	0.00083	mg/Kg			03/21/13 19:39	1
Chlorobenzene	0.0050	U	0.0050	0.00096	mg/Kg			03/21/13 19:39	1
Chlorodibromomethane	0.0050	U	0.0050	0.0017	mg/Kg			03/21/13 19:39	1
Chloroethane	0.0050	U	0.0050	0.0027	mg/Kg			03/21/13 19:39	1
Chloroform	0.0050	U	0.0050	0.0011	mg/Kg			03/21/13 19:39	1
Chloromethane	0.0050	U	0.0050	0.0010	mg/Kg			03/21/13 19:39	1
2-Chlorotoluene	0.0050	U	0.0050	0.0020	mg/Kg			03/21/13 19:39	1
4-Chlorotoluene	0.0050	U	0.0050	0.0017	mg/Kg			03/21/13 19:39	1
cis-1,2-Dichloroethene	0.0050	U	0.0050	0.0014	mg/Kg			03/21/13 19:39	1
cis-1,3-Dichloropropene	0.0050	U	0.0050	0.00083	mg/Kg			03/21/13 19:39	1
Cyclohexane	0.010	U	0.010	0.0013	mg/Kg			03/21/13 19:39	1
1,2-Dibromo-3-Chloropropane	0.010	U	0.010	0.0044	mg/Kg			03/21/13 19:39	1
1,2-Dibromoethane	0.0050	U	0.0050	0.0015	mg/Kg			03/21/13 19:39	1
Dibromomethane	0.0050	U	0.0050	0.0017	mg/Kg			03/21/13 19:39	1
1,2-Dichlorobenzene	0.0050	U	0.0050	0.0013	mg/Kg			03/21/13 19:39	1
1,3-Dichlorobenzene	0.0050	U	0.0050	0.0016	mg/Kg			03/21/13 19:39	1
1,4-Dichlorobenzene	0.0050	U	0.0050	0.00074	mg/Kg			03/21/13 19:39	1
Dichlorodifluoromethane	0.0050	U	0.0050	0.00094	mg/Kg			03/21/13 19:39	1
1,1-Dichloroethane	0.0050	U	0.0050	0.0011	mg/Kg			03/21/13 19:39	1
1,2-Dichloroethane	0.0050	U	0.0050	0.0011	mg/Kg			03/21/13 19:39	1
1,1-Dichloroethene	0.0050	U	0.0050	0.0015	mg/Kg			03/21/13 19:39	1
1,2-Dichloropropane	0.0050	U	0.0050	0.00086	mg/Kg			03/21/13 19:39	1
1,3-Dichloropropane	0.0050	U	0.0050	0.0018	mg/Kg			03/21/13 19:39	1
2,2-Dichloropropane	0.0050	U	0.0050	0.0011	mg/Kg			03/21/13 19:39	1
1,1-Dichloropropene	0.0050	U	0.0050	0.00095	mg/Kg			03/21/13 19:39	1
Ethylbenzene	0.0050	U	0.0050	0.0013	mg/Kg			03/21/13 19:39	1
Hexachlorobutadiene	0.0050	U	0.0050	0.0031	mg/Kg			03/21/13 19:39	1
2-Hexanone	0.025	U	0.025	0.0033	mg/Kg			03/21/13 19:39	1
Isopropylbenzene	0.0050	U	0.0050	0.0019	mg/Kg			03/21/13 19:39	1
Methyl acetate	0.010	U	0.010	0.0050	mg/Kg			03/21/13 19:39	1
Methylcyclohexane	0.010	U	0.010	0.00086	mg/Kg			03/21/13 19:39	1
Methylene Chloride	0.0050	U	0.0050	0.00098	mg/Kg			03/21/13 19:39	1
4-Methyl-2-pentanone	0.025	U	0.025	0.0042	mg/Kg			03/21/13 19:39	1
Methyl tert-butyl ether	0.010	U	0.010	0.0010	mg/Kg			03/21/13 19:39	1
Naphthalene	0.00158	J	0.0050	0.0012	mg/Kg			03/21/13 19:39	1
n-Butylbenzene	0.0050	U	0.0050	0.0024	mg/Kg			03/21/13 19:39	1
N-Propylbenzene	0.0050	U	0.0050	0.0027	mg/Kg			03/21/13 19:39	1
p-Isopropyltoluene	0.0050	U	0.0050	0.0022	mg/Kg			03/21/13 19:39	1
sec-Butylbenzene	0.0050	U	0.0050	0.0021	mg/Kg			03/21/13 19:39	1
Styrene	0.0050	U	0.0050	0.00093	mg/Kg			03/21/13 19:39	1
tert-Butylbenzene	0.0050	U	0.0050	0.0018	mg/Kg			03/21/13 19:39	1

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

Lab Sample ID: MB 680-270346/7
Matrix: Solid
Analysis Batch: 270346

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.0050	U	0.0050	0.0024	mg/Kg			03/21/13 19:39	1
1,1,2,2-Tetrachloroethane	0.0050	U	0.0050	0.0016	mg/Kg			03/21/13 19:39	1
Tetrachloroethene	0.0050	U	0.0050	0.0019	mg/Kg			03/21/13 19:39	1
Toluene	0.0050	U	0.0050	0.00084	mg/Kg			03/21/13 19:39	1
trans-1,2-Dichloroethene	0.0050	U	0.0050	0.00063	mg/Kg			03/21/13 19:39	1
trans-1,3-Dichloropropene	0.0050	U	0.0050	0.00087	mg/Kg			03/21/13 19:39	1
1,2,3-Trichlorobenzene	0.0050	U	0.0050	0.0016	mg/Kg			03/21/13 19:39	1
1,2,4-Trichlorobenzene	0.000978	J	0.0050	0.00089	mg/Kg			03/21/13 19:39	1
1,1,1-Trichloroethane	0.0050	U	0.0050	0.00059	mg/Kg			03/21/13 19:39	1
1,1,2-Trichloroethane	0.0050	U	0.0050	0.0013	mg/Kg			03/21/13 19:39	1
Trichloroethene	0.0050	U	0.0050	0.0013	mg/Kg			03/21/13 19:39	1
Trichlorofluoromethane	0.0050	U	0.0050	0.0012	mg/Kg			03/21/13 19:39	1
1,2,3-Trichloropropane	0.0050	U	0.0050	0.0024	mg/Kg			03/21/13 19:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0050	U	0.0050	0.0013	mg/Kg			03/21/13 19:39	1
1,2,4-Trimethylbenzene	0.0050	U	0.0050	0.0014	mg/Kg			03/21/13 19:39	1
1,3,5-Trimethylbenzene	0.0050	U	0.0050	0.0017	mg/Kg			03/21/13 19:39	1
Vinyl chloride	0.0050	U	0.0050	0.0015	mg/Kg			03/21/13 19:39	1
Xylenes, Total	0.010	U	0.010	0.0011	mg/Kg			03/21/13 19:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*65 - 130*		*03/21/13 19:39*	*1*
Dibromofluoromethane	*97*		*65 - 130*		*03/21/13 19:39*	*1*
Toluene-d8 (Surr)	*95*		*65 - 130*		*03/21/13 19:39*	*1*

Lab Sample ID: LCS 680-270346/4
Matrix: Solid
Analysis Batch: 270346

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.100	0.136		mg/Kg		136	54 - 139
Benzene	0.0500	0.0529		mg/Kg		106	76 - 120
Bromobenzene	0.0500	0.0524		mg/Kg		105	77 - 131
Bromochloromethane	0.0500	0.0494		mg/Kg		99	80 - 120
Bromodichloromethane	0.0500	0.0511		mg/Kg		102	72 - 131
Bromoform	0.0500	0.0537		mg/Kg		107	64 - 150
Bromomethane	0.0500	0.0506		mg/Kg		101	10 - 174
2-Butanone	0.100	0.103		mg/Kg		103	66 - 123
Carbon disulfide	0.0500	0.0537		mg/Kg		107	74 - 125
Carbon tetrachloride	0.0500	0.0569		mg/Kg		114	67 - 140
Chlorobenzene	0.0500	0.0531		mg/Kg		106	80 - 120
Chlorodibromomethane	0.0500	0.0529		mg/Kg		106	77 - 132
Chloroethane	0.0500	0.0547		mg/Kg		109	10 - 176
Chloroform	0.0500	0.0510		mg/Kg		102	80 - 121
Chloromethane	0.0500	0.0515		mg/Kg		103	48 - 146
2-Chlorotoluene	0.0500	0.0530		mg/Kg		106	77 - 124
4-Chlorotoluene	0.0500	0.0535		mg/Kg		107	78 - 124
cis-1,2-Dichloroethene	0.0500	0.0518		mg/Kg		104	80 - 120
cis-1,3-Dichloropropene	0.0500	0.0511		mg/Kg		102	74 - 125

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

Lab Sample ID: LCS 680-270346/4
Matrix: Solid
Analysis Batch: 270346

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyclohexane	0.0500	0.0569		mg/Kg		114	70 - 130
1,2-Dibromo-3-Chloropropane	0.0500	0.0580		mg/Kg		116	49 - 152
1,2-Dibromoethane	0.0500	0.0509		mg/Kg		102	72 - 129
Dibromomethane	0.0500	0.0516		mg/Kg		103	73 - 127
1,2-Dichlorobenzene	0.0500	0.0515		mg/Kg		103	75 - 128
1,3-Dichlorobenzene	0.0500	0.0518		mg/Kg		104	76 - 128
1,4-Dichlorobenzene	0.0500	0.0511		mg/Kg		102	76 - 128
Dichlorodifluoromethane	0.0500	0.0545		mg/Kg		109	72 - 134
1,1-Dichloroethane	0.0500	0.0519		mg/Kg		104	80 - 120
1,2-Dichloroethane	0.0500	0.0509		mg/Kg		102	61 - 140
1,1-Dichloroethene	0.0500	0.0530		mg/Kg		106	64 - 138
1,2-Dichloropropane	0.0500	0.0509		mg/Kg		102	73 - 121
1,3-Dichloropropane	0.0500	0.0508		mg/Kg		102	70 - 126
2,2-Dichloropropane	0.0500	0.0534		mg/Kg		107	78 - 126
1,1-Dichloropropene	0.0500	0.0553		mg/Kg		111	74 - 124
Ethylbenzene	0.0500	0.0542		mg/Kg		108	78 - 121
Hexachlorobutadiene	0.0500	0.0558		mg/Kg		112	70 - 146
2-Hexanone	0.100	0.107		mg/Kg		107	60 - 126
Isopropylbenzene	0.0500	0.0558		mg/Kg		112	79 - 124
Methyl acetate	0.0500	0.0493		mg/Kg		99	43 - 135
Methylcyclohexane	0.0500	0.0564		mg/Kg		113	77 - 118
Methylene Chloride	0.0500	0.0489		mg/Kg		98	80 - 120
4-Methyl-2-pentanone	0.100	0.104		mg/Kg		104	59 - 127
Methyl tert-butyl ether	0.100	0.101		mg/Kg		101	80 - 121
Naphthalene	0.0500	0.0545		mg/Kg		109	71 - 138
n-Butylbenzene	0.0500	0.0548		mg/Kg		110	78 - 121
N-Propylbenzene	0.0500	0.0558		mg/Kg		112	78 - 125
p-Isopropyltoluene	0.0500	0.0558		mg/Kg		112	78 - 125
sec-Butylbenzene	0.0500	0.0561		mg/Kg		112	77 - 123
Styrene	0.0500	0.0534		mg/Kg		107	78 - 123
tert-Butylbenzene	0.0500	0.0557		mg/Kg		111	79 - 127
1,1,1,2-Tetrachloroethane	0.0500	0.0532		mg/Kg		106	80 - 129
1,1,2,2-Tetrachloroethane	0.0500	0.0531		mg/Kg		106	70 - 123
Tetrachloroethene	0.0500	0.0539		mg/Kg		108	77 - 130
Toluene	0.0500	0.0522		mg/Kg		104	73 - 122
trans-1,2-Dichloroethene	0.0500	0.0528		mg/Kg		106	79 - 120
trans-1,3-Dichloropropene	0.0500	0.0503		mg/Kg		101	69 - 133
1,2,3-Trichlorobenzene	0.0500	0.0514		mg/Kg		103	74 - 146
1,2,4-Trichlorobenzene	0.0500	0.0509		mg/Kg		102	77 - 142
1,1,1-Trichloroethane	0.0500	0.0554		mg/Kg		111	73 - 132
1,1,2-Trichloroethane	0.0500	0.0516		mg/Kg		103	72 - 124
Trichloroethene	0.0500	0.0535		mg/Kg		107	78 - 125
Trichlorofluoromethane	0.0500	0.0538		mg/Kg		108	60 - 148
1,2,3-Trichloropropane	0.0500	0.0541		mg/Kg		108	67 - 132
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.0549		mg/Kg		110	62 - 141
1,2,4-Trimethylbenzene	0.0500	0.0536		mg/Kg		107	77 - 126
1,3,5-Trimethylbenzene	0.0500	0.0554		mg/Kg		111	77 - 126

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

Lab Sample ID: LCS 680-270346/4
Matrix: Solid
Analysis Batch: 270346

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Vinyl chloride			0.0500	0.0535		mg/Kg		107	65 - 133		
Xylenes, Total			0.150	0.162		mg/Kg		108	79 - 121		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*65 - 130*
Dibromofluoromethane	*104*		*65 - 130*
Toluene-d8 (Surr)	*105*		*65 - 130*

Lab Sample ID: LCSD 680-270346/5
Matrix: Solid
Analysis Batch: 270346

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.100	0.131		mg/Kg		131	54 - 139	4	50
Benzene			0.0500	0.0544		mg/Kg		109	76 - 120	3	50
Bromobenzene			0.0500	0.0540		mg/Kg		108	77 - 131	3	50
Bromochloromethane			0.0500	0.0491		mg/Kg		98	80 - 120	1	50
Bromodichloromethane			0.0500	0.0516		mg/Kg		103	72 - 131	1	50
Bromoform			0.0500	0.0559		mg/Kg		112	64 - 150	4	50
Bromomethane			0.0500	0.0514		mg/Kg		103	10 - 174	2	50
2-Butanone			0.100	0.103		mg/Kg		103	66 - 123	0	50
Carbon disulfide			0.0500	0.0542		mg/Kg		108	74 - 125	1	50
Carbon tetrachloride			0.0500	0.0581		mg/Kg		116	67 - 140	2	50
Chlorobenzene			0.0500	0.0539		mg/Kg		108	80 - 120	1	50
Chlorodibromomethane			0.0500	0.0538		mg/Kg		108	77 - 132	2	50
Chloroethane			0.0500	0.0526		mg/Kg		105	10 - 176	4	50
Chloroform			0.0500	0.0510		mg/Kg		102	80 - 121	0	50
Chloromethane			0.0500	0.0524		mg/Kg		105	48 - 146	2	50
2-Chlorotoluene			0.0500	0.0542		mg/Kg		108	77 - 124	2	50
4-Chlorotoluene			0.0500	0.0531		mg/Kg		106	78 - 124	1	50
cis-1,2-Dichloroethene			0.0500	0.0519		mg/Kg		104	80 - 120	0	50
cis-1,3-Dichloropropene			0.0500	0.0515		mg/Kg		103	74 - 125	1	50
Cyclohexane			0.0500	0.0582		mg/Kg		116	70 - 130	2	50
1,2-Dibromo-3-Chloropropane			0.0500	0.0613		mg/Kg		123	49 - 152	5	50
1,2-Dibromoethane			0.0500	0.0529		mg/Kg		106	72 - 129	4	50
Dibromomethane			0.0500	0.0516		mg/Kg		103	73 - 127	0	50
1,2-Dichlorobenzene			0.0500	0.0516		mg/Kg		103	75 - 128	0	50
1,3-Dichlorobenzene			0.0500	0.0508		mg/Kg		102	76 - 128	2	50
1,4-Dichlorobenzene			0.0500	0.0498		mg/Kg		100	76 - 128	3	50
Dichlorodifluoromethane			0.0500	0.0556		mg/Kg		111	72 - 134	2	50
1,1-Dichloroethane			0.0500	0.0540		mg/Kg		108	80 - 120	4	50
1,2-Dichloroethane			0.0500	0.0513		mg/Kg		103	61 - 140	1	50
1,1-Dichloroethene			0.0500	0.0554		mg/Kg		111	64 - 138	4	50
1,2-Dichloropropane			0.0500	0.0522		mg/Kg		104	73 - 121	3	50
1,3-Dichloropropane			0.0500	0.0512		mg/Kg		102	70 - 126	1	50
2,2-Dichloropropane			0.0500	0.0546		mg/Kg		109	78 - 126	2	50
1,1-Dichloropropene			0.0500	0.0557		mg/Kg		111	74 - 124	1	50
Ethylbenzene			0.0500	0.0551		mg/Kg		110	78 - 121	2	50

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

Lab Sample ID: LCSD 680-270346/5
Matrix: Solid
Analysis Batch: 270346

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobutadiene			0.0500	0.0493		mg/Kg		99	70 - 146	12	50
2-Hexanone			0.100	0.110		mg/Kg		110	60 - 126	3	50
Isopropylbenzene			0.0500	0.0570		mg/Kg		114	79 - 124	2	50
Methyl acetate			0.0500	0.0490		mg/Kg		98	43 - 135	1	50
Methylcyclohexane			0.0500	0.0575		mg/Kg		115	77 - 118	2	50
Methylene Chloride			0.0500	0.0500		mg/Kg		100	80 - 120	2	50
4-Methyl-2-pentanone			0.100	0.107		mg/Kg		107	59 - 127	3	50
Methyl tert-butyl ether			0.100	0.103		mg/Kg		103	80 - 121	2	50
Naphthalene			0.0500	0.0559		mg/Kg		112	71 - 138	3	50
n-Butylbenzene			0.0500	0.0514		mg/Kg		103	78 - 121	7	50
N-Propylbenzene			0.0500	0.0542		mg/Kg		108	78 - 125	3	50
p-Isopropyltoluene			0.0500	0.0538		mg/Kg		108	78 - 125	4	50
sec-Butylbenzene			0.0500	0.0553		mg/Kg		111	77 - 123	1	50
Styrene			0.0500	0.0548		mg/Kg		110	78 - 123	3	50
tert-Butylbenzene			0.0500	0.0565		mg/Kg		113	79 - 127	2	50
1,1,1,2-Tetrachloroethane			0.0500	0.0568		mg/Kg		114	80 - 129	7	50
1,1,2,2-Tetrachloroethane			0.0500	0.0550		mg/Kg		110	70 - 123	3	50
Tetrachloroethene			0.0500	0.0575		mg/Kg		115	77 - 130	6	50
Toluene			0.0500	0.0534		mg/Kg		107	73 - 122	2	50
trans-1,2-Dichloroethene			0.0500	0.0536		mg/Kg		107	79 - 120	1	50
trans-1,3-Dichloropropene			0.0500	0.0523		mg/Kg		105	69 - 133	4	50
1,2,3-Trichlorobenzene			0.0500	0.0514		mg/Kg		103	74 - 146	0	50
1,2,4-Trichlorobenzene			0.0500	0.0486		mg/Kg		97	77 - 142	5	50
1,1,1-Trichloroethane			0.0500	0.0568		mg/Kg		114	73 - 132	2	50
1,1,2-Trichloroethane			0.0500	0.0527		mg/Kg		105	72 - 124	2	50
Trichloroethene			0.0500	0.0548		mg/Kg		110	78 - 125	2	50
Trichlorofluoromethane			0.0500	0.0548		mg/Kg		110	60 - 148	2	50
1,2,3-Trichloropropane			0.0500	0.0543		mg/Kg		109	67 - 132	0	50
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0500	0.0569		mg/Kg		114	62 - 141	4	50
1,2,4-Trimethylbenzene			0.0500	0.0533		mg/Kg		107	77 - 126	1	50
1,3,5-Trimethylbenzene			0.0500	0.0549		mg/Kg		110	77 - 126	1	50
Vinyl chloride			0.0500	0.0548		mg/Kg		110	65 - 133	2	50
Xylenes, Total			0.150	0.165		mg/Kg		110	79 - 121	2	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*65 - 130*
Dibromofluoromethane	*103*		*65 - 130*
Toluene-d8 (Surr)	*108*		*65 - 130*

Lab Sample ID: MB 680-271096/7
Matrix: Water
Analysis Batch: 271096

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			03/28/13 13:06	1
Benzene	1.0	U	1.0	0.25	ug/L			03/28/13 13:06	1
Bromobenzene	1.0	U	1.0	0.16	ug/L			03/28/13 13:06	1

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

Lab Sample ID: MB 680-271096/7
Matrix: Water
Analysis Batch: 271096

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/28/13 13:06	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			03/28/13 13:06	1
Bromoform	1.0	U	1.0	0.50	ug/L			03/28/13 13:06	1
Bromomethane	1.0	U	1.0	0.80	ug/L			03/28/13 13:06	1
2-Butanone	10	U	10	1.0	ug/L			03/28/13 13:06	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			03/28/13 13:06	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			03/28/13 13:06	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			03/28/13 13:06	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			03/28/13 13:06	1
Chloroethane	1.0	U	1.0	1.0	ug/L			03/28/13 13:06	1
Chloroform	1.0	U	1.0	0.14	ug/L			03/28/13 13:06	1
Chloromethane	1.0	U	1.0	0.33	ug/L			03/28/13 13:06	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/L			03/28/13 13:06	1
4-Chlorotoluene	1.0	U	1.0	0.27	ug/L			03/28/13 13:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			03/28/13 13:06	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			03/28/13 13:06	1
Cyclohexane	1.0	U	1.0	0.25	ug/L			03/28/13 13:06	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			03/28/13 13:06	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			03/28/13 13:06	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			03/28/13 13:06	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			03/28/13 13:06	1
1,3-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			03/28/13 13:06	1
1,4-Dichlorobenzene	1.0	U	1.0	0.28	ug/L			03/28/13 13:06	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			03/28/13 13:06	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			03/28/13 13:06	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			03/28/13 13:06	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			03/28/13 13:06	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			03/28/13 13:06	1
1,3-Dichloropropane	1.0	U	1.0	0.13	ug/L			03/28/13 13:06	1
2,2-Dichloropropane	1.0	U	1.0	0.12	ug/L			03/28/13 13:06	1
1,1-Dichloropropene	1.0	U	1.0	0.25	ug/L			03/28/13 13:06	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/28/13 13:06	1
Hexachlorobutadiene	1.0	U	1.0	0.40	ug/L			03/28/13 13:06	1
2-Hexanone	10	U	10	1.0	ug/L			03/28/13 13:06	1
Isopropylbenzene	1.0	U	1.0	0.10	ug/L			03/28/13 13:06	1
Methyl acetate	1.0	U	1.0	0.19	ug/L			03/28/13 13:06	1
Methylcyclohexane	1.0	U	1.0	0.10	ug/L			03/28/13 13:06	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			03/28/13 13:06	1
4-Methyl-2-pentanone	10	U	10	1.0	ug/L			03/28/13 13:06	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			03/28/13 13:06	1
Naphthalene	5.0	U	5.0	1.0	ug/L			03/28/13 13:06	1
n-Butylbenzene	1.0	U	1.0	0.10	ug/L			03/28/13 13:06	1
N-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/28/13 13:06	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/28/13 13:06	1
sec-Butylbenzene	1.0	U	1.0	0.16	ug/L			03/28/13 13:06	1
Styrene	1.0	U	1.0	0.11	ug/L			03/28/13 13:06	1
tert-Butylbenzene	1.0	U	1.0	0.12	ug/L			03/28/13 13:06	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			03/28/13 13:06	1

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

Lab Sample ID: MB 680-271096/7
Matrix: Water
Analysis Batch: 271096

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			03/28/13 13:06	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/28/13 13:06	1
Toluene	1.0	U	1.0	0.33	ug/L			03/28/13 13:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			03/28/13 13:06	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			03/28/13 13:06	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			03/28/13 13:06	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.25	ug/L			03/28/13 13:06	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			03/28/13 13:06	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			03/28/13 13:06	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			03/28/13 13:06	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			03/28/13 13:06	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			03/28/13 13:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			03/28/13 13:06	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			03/28/13 13:06	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			03/28/13 13:06	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			03/28/13 13:06	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			03/28/13 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*70 - 130*		*03/28/13 13:06*	*1*
Dibromofluoromethane	*108*		*70 - 130*		*03/28/13 13:06*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*03/28/13 13:06*	*1*

Lab Sample ID: LCS 680-271096/4
Matrix: Water
Analysis Batch: 271096

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	72.2		ug/L		72	39 - 162
Benzene	50.0	47.8		ug/L		96	74 - 123
Bromobenzene	50.0	51.6		ug/L		103	79 - 125
Bromochloromethane	50.0	47.9		ug/L		96	60 - 136
Bromodichloromethane	50.0	43.7		ug/L		87	72 - 129
Bromoform	50.0	37.6		ug/L		75	60 - 134
Bromomethane	50.0	57.4		ug/L		115	10 - 171
2-Butanone	100	78.6		ug/L		79	55 - 142
Carbon disulfide	50.0	44.5		ug/L		89	63 - 142
Carbon tetrachloride	50.0	41.1		ug/L		82	70 - 131
Chlorobenzene	50.0	49.8		ug/L		100	79 - 120
Chlorodibromomethane	50.0	38.6		ug/L		77	63 - 134
Chloroethane	50.0	55.7		ug/L		111	47 - 148
Chloroform	50.0	53.6		ug/L		107	76 - 128
Chloromethane	50.0	54.8		ug/L		110	47 - 151
2-Chlorotoluene	50.0	53.5		ug/L		107	78 - 126
4-Chlorotoluene	50.0	52.4		ug/L		105	79 - 124
cis-1,2-Dichloroethene	50.0	53.5		ug/L		107	78 - 127
cis-1,3-Dichloropropene	50.0	47.8		ug/L		96	73 - 128
Cyclohexane	50.0	45.0		ug/L		90	68 - 137

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

Lab Sample ID: LCS 680-271096/4
Matrix: Water
Analysis Batch: 271096

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	50.0	37.9		ug/L		76	57 - 126
1,2-Dibromoethane	50.0	41.4		ug/L		83	75 - 127
Dibromomethane	50.0	42.0		ug/L		84	75 - 122
1,2-Dichlorobenzene	50.0	49.4		ug/L		99	77 - 124
1,3-Dichlorobenzene	50.0	51.9		ug/L		104	79 - 123
1,4-Dichlorobenzene	50.0	51.7		ug/L		103	76 - 124
Dichlorodifluoromethane	50.0	44.6		ug/L		89	41 - 165
1,1-Dichloroethane	50.0	43.2		ug/L		86	69 - 132
1,2-Dichloroethane	50.0	45.1		ug/L		90	75 - 120
1,1-Dichloroethene	50.0	52.3		ug/L		105	73 - 134
1,2-Dichloropropane	50.0	54.0		ug/L		108	71 - 126
1,3-Dichloropropane	50.0	49.2		ug/L		98	73 - 125
2,2-Dichloropropane	50.0	61.8		ug/L		124	72 - 147
1,1-Dichloropropene	50.0	56.5		ug/L		113	74 - 130
Ethylbenzene	50.0	52.4		ug/L		105	78 - 125
Hexachlorobutadiene	50.0	42.8		ug/L		86	62 - 145
2-Hexanone	100	67.0		ug/L		67	52 - 149
Isopropylbenzene	50.0	46.9		ug/L		94	72 - 129
Methyl acetate	50.0	48.0		ug/L		96	26 - 182
Methylcyclohexane	50.0	44.0		ug/L		88	72 - 133
Methylene Chloride	50.0	49.1		ug/L		98	79 - 124
4-Methyl-2-pentanone	100	77.2		ug/L		77	51 - 143
Methyl tert-butyl ether	100	91.2		ug/L		91	76 - 126
Naphthalene	50.0	39.7		ug/L		79	56 - 136
n-Butylbenzene	50.0	52.3		ug/L		105	72 - 128
N-Propylbenzene	50.0	52.5		ug/L		105	74 - 130
p-Isopropyltoluene	50.0	52.9		ug/L		106	69 - 129
sec-Butylbenzene	50.0	53.0		ug/L		106	71 - 130
Styrene	50.0	53.2		ug/L		106	75 - 129
tert-Butylbenzene	50.0	53.8		ug/L		108	72 - 130
1,1,1,2-Tetrachloroethane	50.0	47.1		ug/L		94	68 - 132
1,1,2,2-Tetrachloroethane	50.0	40.4		ug/L		81	71 - 127
Tetrachloroethene	50.0	51.9		ug/L		104	77 - 128
Toluene	50.0	49.9		ug/L		100	77 - 125
trans-1,2-Dichloroethene	50.0	53.5		ug/L		107	78 - 130
trans-1,3-Dichloropropene	50.0	45.4		ug/L		91	72 - 127
1,2,3-Trichlorobenzene	50.0	43.9		ug/L		88	63 - 136
1,2,4-Trichlorobenzene	50.0	46.2		ug/L		92	67 - 134
1,1,1-Trichloroethane	50.0	45.8		ug/L		92	76 - 126
1,1,2-Trichloroethane	50.0	41.5		ug/L		83	69 - 127
Trichloroethene	50.0	51.8		ug/L		104	80 - 120
Trichlorofluoromethane	50.0	52.9		ug/L		106	66 - 144
1,2,3-Trichloropropane	50.0	43.9		ug/L		88	74 - 126
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.4		ug/L		109	72 - 139
1,2,4-Trimethylbenzene	50.0	53.1		ug/L		106	72 - 129
1,3,5-Trimethylbenzene	50.0	56.7		ug/L		113	72 - 130
Vinyl chloride	50.0	48.0		ug/L		96	58 - 141

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

Lab Sample ID: LCS 680-271096/4
Matrix: Water
Analysis Batch: 271096

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Xylenes, Total			150	160		ug/L		106	80 - 124		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*70 - 130*
Dibromofluoromethane	*105*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 680-271096/5
Matrix: Water
Analysis Batch: 271096

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			100	84.9		ug/L		85	39 - 162	16	50
Benzene			50.0	51.8		ug/L		104	74 - 123	8	30
Bromobenzene			50.0	54.3		ug/L		109	79 - 125	5	30
Bromochloromethane			50.0	50.0		ug/L		100	60 - 136	4	30
Bromodichloromethane			50.0	47.9		ug/L		96	72 - 129	9	30
Bromoform			50.0	47.4		ug/L		95	60 - 134	23	30
Bromomethane			50.0	56.8		ug/L		114	10 - 171	1	50
2-Butanone			100	91.1		ug/L		91	55 - 142	15	30
Carbon disulfide			50.0	43.6		ug/L		87	63 - 142	2	30
Carbon tetrachloride			50.0	43.7		ug/L		87	70 - 131	6	30
Chlorobenzene			50.0	52.8		ug/L		106	79 - 120	6	30
Chlorodibromomethane			50.0	44.4		ug/L		89	63 - 134	14	50
Chloroethane			50.0	50.9		ug/L		102	47 - 148	9	40
Chloroform			50.0	54.8		ug/L		110	76 - 128	2	30
Chloromethane			50.0	53.1		ug/L		106	47 - 151	3	30
2-Chlorotoluene			50.0	55.7		ug/L		111	78 - 126	4	30
4-Chlorotoluene			50.0	55.6		ug/L		111	79 - 124	6	30
cis-1,2-Dichloroethene			50.0	55.4		ug/L		111	78 - 127	4	30
cis-1,3-Dichloropropene			50.0	53.5		ug/L		107	73 - 128	11	30
Cyclohexane			50.0	46.9		ug/L		94	68 - 137	4	30
1,2-Dibromo-3-Chloropropane			50.0	46.8		ug/L		94	57 - 126	21	50
1,2-Dibromoethane			50.0	53.3		ug/L		107	75 - 127	25	30
Dibromomethane			50.0	50.7		ug/L		101	75 - 122	19	30
1,2-Dichlorobenzene			50.0	52.9		ug/L		106	77 - 124	7	30
1,3-Dichlorobenzene			50.0	55.2		ug/L		110	79 - 123	6	30
1,4-Dichlorobenzene			50.0	55.0		ug/L		110	76 - 124	6	30
Dichlorodifluoromethane			50.0	41.4		ug/L		83	41 - 165	7	50
1,1-Dichloroethane			50.0	55.7		ug/L		111	69 - 132	25	30
1,2-Dichloroethane			50.0	52.0		ug/L		104	75 - 120	14	30
1,1-Dichloroethene			50.0	55.0		ug/L		110	73 - 134	5	30
1,2-Dichloropropane			50.0	59.0		ug/L		118	71 - 126	9	30
1,3-Dichloropropane			50.0	58.8		ug/L		118	73 - 125	18	30
2,2-Dichloropropane			50.0	62.0		ug/L		124	72 - 147	0	30
1,1-Dichloropropene			50.0	60.9		ug/L		122	74 - 130	8	30
Ethylbenzene			50.0	55.4		ug/L		111	78 - 125	6	30
Hexachlorobutadiene			50.0	54.0		ug/L		108	62 - 145	23	30

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

Lab Sample ID: LCSD 680-271096/5
Matrix: Water
Analysis Batch: 271096

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Hexanone	100	84.4		ug/L		84	52 - 149	23	30
Isopropylbenzene	50.0	49.7		ug/L		99	72 - 129	6	30
Methyl acetate	50.0	60.5		ug/L		121	26 - 182	23	30
Methylcyclohexane	50.0	46.0		ug/L		92	72 - 133	4	30
Methylene Chloride	50.0	50.1		ug/L		100	79 - 124	2	30
4-Methyl-2-pentanone	100	101		ug/L		101	51 - 143	26	30
Methyl tert-butyl ether	100	105		ug/L		105	76 - 126	14	30
Naphthalene	50.0	48.5		ug/L		97	56 - 136	20	30
n-Butylbenzene	50.0	56.6		ug/L		113	72 - 128	8	30
N-Propylbenzene	50.0	54.7		ug/L		109	74 - 130	4	30
p-Isopropyltoluene	50.0	55.3		ug/L		111	69 - 129	4	50
sec-Butylbenzene	50.0	55.5		ug/L		111	71 - 130	5	30
Styrene	50.0	56.8		ug/L		114	75 - 129	7	30
tert-Butylbenzene	50.0	56.3		ug/L		113	72 - 130	4	30
1,1,1,2-Tetrachloroethane	50.0	49.9		ug/L		100	68 - 132	6	30
1,1,2,2-Tetrachloroethane	50.0	52.9		ug/L		106	71 - 127	27	30
Tetrachloroethene	50.0	54.9		ug/L		110	77 - 128	6	30
Toluene	50.0	54.5		ug/L		109	77 - 125	9	30
trans-1,2-Dichloroethene	50.0	55.1		ug/L		110	78 - 130	3	30
trans-1,3-Dichloropropene	50.0	52.1		ug/L		104	72 - 127	14	50
1,2,3-Trichlorobenzene	50.0	50.6		ug/L		101	63 - 136	14	30
1,2,4-Trichlorobenzene	50.0	51.3		ug/L		103	67 - 134	10	30
1,1,1-Trichloroethane	50.0	49.4		ug/L		99	76 - 126	8	30
1,1,2-Trichloroethane	50.0	50.3		ug/L		101	69 - 127	19	30
Trichloroethene	50.0	54.8		ug/L		110	80 - 120	5	30
Trichlorofluoromethane	50.0	52.4		ug/L		105	66 - 144	1	30
1,2,3-Trichloropropane	50.0	59.4		ug/L		119	74 - 126	30	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.0		ug/L		108	72 - 139	1	30
1,2,4-Trimethylbenzene	50.0	55.5		ug/L		111	72 - 129	4	50
1,3,5-Trimethylbenzene	50.0	59.4		ug/L		119	72 - 130	5	50
Vinyl chloride	50.0	45.1		ug/L		90	58 - 141	6	30
Xylenes, Total	150	169		ug/L		113	80 - 124	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*109*		*70 - 130*
Dibromofluoromethane	*109*		*70 - 130*
Toluene-d8 (Surr)	*109*		*70 - 130*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-180202/1-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.033	U	0.033	0.0099	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Acenaphthylene	0.033	U	0.033	0.0076	mg/Kg		03/18/13 16:41	03/22/13 21:27	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-180202/1-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	0.33	U	0.33	0.060	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2-Acetylaminofluorene	0.17	U	0.17	0.031	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
alpha,alpha-Dimethyl phenethylamine	1.3	U	1.3	0.39	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
4-Aminobiphenyl	0.17	U	0.17	0.067	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Aniline	0.67	U	0.67	0.30	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Anthracene	0.033	U	0.033	0.0078	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Aramite	0.17	U	0.17	0.033	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Benzenethiol	0.67	U	0.67	0.33	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Benzidine	0.67	U	0.67	0.33	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Benzo[a]anthracene	0.033	U	0.033	0.0070	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Benzo[a]pyrene	0.033	U	0.033	0.0061	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Benzo[b]fluoranthene	0.033	U	0.033	0.0065	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Benzo[g,h,i]perylene	0.033	U	0.033	0.011	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Benzoic acid	1.7	U	1.7	0.46	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Benzo[k]fluoranthene	0.033	U	0.033	0.0079	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Benzyl alcohol	0.33	U	0.33	0.099	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Bis(2-chloroethoxy)methane	0.17	U	0.17	0.037	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Bis(2-chloroethyl)ether	0.17	U	0.17	0.049	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Bis(2-ethylhexyl) phthalate	0.17	U	0.17	0.044	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
4-Bromophenyl phenyl ether	0.17	U	0.17	0.037	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Butyl benzyl phthalate	0.17	U	0.17	0.042	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Carbofuran	0.33	U	0.33	0.077	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
4-Chloroaniline	0.67	U	0.67	0.10	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
4-Chloro-3-methylphenol	0.33	U	0.33	0.16	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2-Chloronaphthalene	0.17	U	0.17	0.037	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2-Chlorophenol	0.17	U	0.17	0.048	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
4-Chlorophenyl phenyl ether	0.17	U	0.17	0.052	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Chrysene	0.033	U	0.033	0.0075	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Diallate	0.17	U	0.17	0.033	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Dibenz(a,h)anthracene	0.033	U	0.033	0.0093	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Dibenz[a,j]acridine	0.17	U	0.17	0.018	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Dibenzofuran	0.17	U	0.17	0.040	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
1,2-Dichlorobenzene	0.17	U	0.17	0.036	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
1,3-Dichlorobenzene	0.17	U	0.17	0.035	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
1,4-Dichlorobenzene	0.17	U	0.17	0.035	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
3,3'-Dichlorobenzidine	0.17	U	0.17	0.028	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2,4-Dichlorophenol	0.33	U	0.33	0.10	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2,6-Dichlorophenol	0.17	U	0.17	0.047	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Diethyl phthalate	0.17	U	0.17	0.055	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Diethylstilbestrol	0.67	U	0.67	0.083	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Dimethoate	0.33	U	0.33	0.075	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
7,12-Dimethylbenz(a)anthracene	0.17	U	0.17	0.041	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
3,3'-Dimethylbenzidine	0.67	U	0.67	0.17	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2,4-Dimethylphenol	0.33	U	0.33	0.10	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Dimethyl phthalate	0.17	U	0.17	0.042	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Di-n-butyl phthalate	0.17	U	0.17	0.042	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
1,4-Dinitrobenzene	0.17	U	0.17	0.026	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
4,6-Dinitro-2-methylphenol	0.33	U	0.33	0.081	mg/Kg		03/18/13 16:41	03/22/13 21:27	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-180202/1-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	0.67	U	0.67	0.17	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2,4-Dinitrotoluene	0.17	U	0.17	0.051	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2,6-Dinitrotoluene	0.17	U	0.17	0.040	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Di-n-octyl phthalate	0.17	U	0.17	0.067	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Dinoseb	0.33	U	0.33	0.086	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
1,4-Dioxane	0.67	U	0.67	0.23	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Diphenylamine	0.17	U	0.17	0.038	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
1,2-Diphenylhydrazine	0.17	U	0.17	0.042	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Disulfoton	0.33	U	0.33	0.050	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Ethyl 4,4'-Dichlorobenzilate	0.17	U	0.17	0.021	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Ethyl methanesulfonate	0.17	U	0.17	0.019	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Ethyl Parathion	0.33	U	0.33	0.093	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Famphur	0.33	U	0.33	0.054	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Fluoranthene	0.033	U	0.033	0.014	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Fluorene	0.033	U	0.033	0.0076	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Hexachlorobenzene	0.067	U	0.067	0.0065	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Hexachlorobutadiene	0.17	U	0.17	0.044	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Hexachlorocyclopentadiene	0.67	U	0.67	0.15	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Hexachloroethane	0.17	U	0.17	0.035	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Hexachlorophene	3.3	U	3.3	1.2	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Hexachloropropene	0.33	U	0.33	0.13	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Indeno[1,2,3-cd]pyrene	0.033	U	0.033	0.011	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Isophorone	0.17	U	0.17	0.037	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Isosafrole	0.17	U	0.17	0.018	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Kepone	0.67	U	0.67	0.33	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Malathion	0.33	U	0.33	0.099	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
m-Dinitrobenzene	0.17	U	0.17	0.031	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Methapyrilene	1.3	U	1.3	0.17	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
3-Methylcholanthrene	0.17	U	0.17	0.014	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Methyl methanesulfonate	0.17	U	0.17	0.027	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2-Methylnaphthalene	0.17	U	0.17	0.043	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Methyl parathion	0.33	U	0.33	0.094	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2-Methylphenol	0.17	U	0.17	0.044	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
3 & 4 Methylphenol	0.17	U	0.17	0.063	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Naphthalene	0.033	U	0.033	0.0064	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
1,4-Naphthoquinone	0.67	U	0.67	0.33	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
1-Naphthylamine	0.17	U	0.17	0.026	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2-Naphthylamine	0.17	U	0.17	0.045	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2-Nitroaniline	0.17	U	0.17	0.060	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
3-Nitroaniline	0.33	U	0.33	0.064	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
4-Nitroaniline	0.33	U	0.33	0.068	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Nitrobenzene	0.033	U	0.033	0.010	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
5-Nitro-o-toluidine	0.17	U	0.17	0.031	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2-Nitrophenol	0.33	U	0.33	0.052	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
4-Nitrophenol	0.67	U	0.67	0.18	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
4-Nitroquinoline-1-oxide	0.67	U	0.67	0.31	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
N-Nitrosodiethylamine	0.33	U	0.33	0.095	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
N-Nitrosodimethylamine	0.67	U	0.67	0.36	mg/Kg		03/18/13 16:41	03/22/13 21:27	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-180202/1-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-butylamine	0.17	U	0.17	0.060	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
N-Nitrosodi-n-propylamine	0.17	U	0.17	0.042	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
N-Nitrosodiphenylamine	0.17	U	0.17	0.045	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
N-Nitrosomethylethylamine	0.67	U	0.67	0.27	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
N-Nitrosomorpholine	0.17	U	0.17	0.031	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
N-Nitrosopiperidine	0.33	U	0.33	0.031	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
N-Nitrosopyrrolidine	0.17	U	0.17	0.038	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
o,o',o''-Triethylphosphorothioate	0.33	U	0.33	0.051	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
o-Toluidine	0.17	U	0.17	0.032	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2,2'-oxybis[1-chloropropane]	0.17	U	0.17	0.037	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
p-Dimethylamino azobenzene	0.17	U	0.17	0.018	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Pentachlorobenzene	0.17	U	0.17	0.042	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Pentachloronitrobenzene	0.17	U	0.17	0.024	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Pentachlorophenol	0.67	U	0.67	0.17	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Phenacetin	0.17	U	0.17	0.035	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Phenanthrene	0.033	U	0.033	0.014	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Phenol	0.17	U	0.17	0.053	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Phorate	0.33	U	0.33	0.070	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2-Picoline	0.33	U	0.33	0.13	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
p-Phenylene diamine	1.3	U	1.3	0.070	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Pronamide	0.17	U	0.17	0.027	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Pyrene	0.033	U	0.033	0.012	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Pyridine	0.67	U	0.67	0.39	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Safrole	0.17	U	0.17	0.016	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Sulfotepp	0.33	U	0.33	0.066	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
sym-Trinitrobenzene	0.67	U	0.67	0.34	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
1,2,4,5-Tetrachlorobenzene	0.17	U	0.17	0.039	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2,3,4,6-Tetrachlorophenol	0.17	U	0.17	0.045	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Thionazin	0.33	U	0.33	0.074	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
1,2,4-Trichlorobenzene	0.17	U	0.17	0.038	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2,4,5-Trichlorophenol	0.33	U	0.33	0.095	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2,4,6-Trichlorophenol	0.33	U	0.33	0.042	mg/Kg		03/18/13 16:41	03/22/13 21:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*30 - 119*	*03/18/13 16:41*	*03/22/13 21:27*	*1*
2-Fluorophenol	*72*		*30 - 110*	*03/18/13 16:41*	*03/22/13 21:27*	*1*
Nitrobenzene-d5	*74*		*30 - 115*	*03/18/13 16:41*	*03/22/13 21:27*	*1*
Phenol-d5	*70*		*31 - 110*	*03/18/13 16:41*	*03/22/13 21:27*	*1*
Terphenyl-d14	*84*		*36 - 134*	*03/18/13 16:41*	*03/22/13 21:27*	*1*
2,4,6-Tribromophenol	*61*		*35 - 137*	*03/18/13 16:41*	*03/22/13 21:27*	*1*

Lab Sample ID: LCS 500-180202/2-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1.67	1.22		mg/Kg		73	53 - 110
Acenaphthylene	1.67	1.19		mg/Kg		71	51 - 110

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-180202/2-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetophenone	1.67	0.940		mg/Kg		56	35 - 100
Aniline	1.67	0.733		mg/Kg		44	34 - 100
Anthracene	1.67	1.33		mg/Kg		80	52 - 110
Benzidine	1.67	0.67	U *	mg/Kg		6	10 - 100
Benzo[a]anthracene	1.67	1.26		mg/Kg		76	57 - 110
Benzo[a]pyrene	1.67	1.32		mg/Kg		79	56 - 110
Benzo[b]fluoranthene	1.67	1.28		mg/Kg		77	50 - 110
Benzo[g,h,i]perylene	1.67	1.34		mg/Kg		80	54 - 117
Benzoic acid	1.67	1.7	U *	mg/Kg		0	10 - 100
Benzo[k]fluoranthene	1.67	1.37		mg/Kg		82	43 - 121
Benzyl alcohol	1.67	1.19		mg/Kg		71	44 - 110
Bis(2-chloroethoxy)methane	1.67	1.22		mg/Kg		73	56 - 110
Bis(2-chloroethyl)ether	1.67	1.24		mg/Kg		74	48 - 110
Bis(2-ethylhexyl) phthalate	1.67	1.38		mg/Kg		83	56 - 114
4-Bromophenyl phenyl ether	1.67	1.32		mg/Kg		79	58 - 111
Butyl benzyl phthalate	1.67	1.43		mg/Kg		86	60 - 120
4-Chloroaniline	1.67	0.863		mg/Kg		52	25 - 110
4-Chloro-3-methylphenol	1.67	1.11		mg/Kg		67	54 - 111
2-Chloronaphthalene	1.67	1.26		mg/Kg		75	54 - 110
2-Chlorophenol	1.67	1.17		mg/Kg		70	53 - 110
4-Chlorophenyl phenyl ether	1.67	1.24		mg/Kg		74	57 - 110
Chrysene	1.67	1.28		mg/Kg		77	54 - 110
Dibenz(a,h)anthracene	1.67	1.38		mg/Kg		83	52 - 118
Dibenzofuran	1.67	1.23		mg/Kg		74	54 - 110
1,2-Dichlorobenzene	1.67	1.16		mg/Kg		70	55 - 110
1,3-Dichlorobenzene	1.67	1.09		mg/Kg		66	52 - 110
1,4-Dichlorobenzene	1.67	1.12		mg/Kg		67	52 - 110
3,3'-Dichlorobenzidine	1.67	1.04		mg/Kg		63	31 - 110
2,4-Dichlorophenol	1.67	1.13		mg/Kg		68	60 - 110
2,6-Dichlorophenol	1.67	1.18		mg/Kg		71	63 - 110
Diethyl phthalate	1.67	1.26		mg/Kg		75	58 - 112
3,3'-Dimethylbenzidine	1.67	0.307	J	mg/Kg		18	10 - 100
2,4-Dimethylphenol	1.67	1.13		mg/Kg		68	52 - 110
Dimethyl phthalate	1.67	1.24		mg/Kg		74	60 - 110
Di-n-butyl phthalate	1.67	1.50		mg/Kg		90	56 - 117
4,6-Dinitro-2-methylphenol	1.67	0.522		mg/Kg		31	10 - 110
2,4-Dinitrophenol	1.67	0.482	J	mg/Kg		29	10 - 110
2,4-Dinitrotoluene	1.67	1.20		mg/Kg		72	57 - 116
2,6-Dinitrotoluene	1.67	1.18		mg/Kg		71	60 - 110
Di-n-octyl phthalate	1.67	1.53		mg/Kg		92	49 - 121
Dinoseb	1.67	0.748	*	mg/Kg		45	50 - 150
1,4-Dioxane	1.67	0.489	J	mg/Kg		29	10 - 100
1,2-Diphenylhydrazine	1.67	1.30		mg/Kg		78	53 - 112
Fluoranthene	1.67	1.34		mg/Kg		80	55 - 113
Fluorene	1.67	1.32		mg/Kg		79	52 - 112
Hexachlorobenzene	1.67	1.25		mg/Kg		75	54 - 114
Hexachlorobutadiene	1.67	1.21		mg/Kg		73	53 - 110
Hexachlorocyclopentadiene	1.67	0.940		mg/Kg		56	10 - 112

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-180202/2-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachloroethane	1.67	1.20		mg/Kg		72	51 - 110
Hexachlorophene	1.67	3.3	U	mg/Kg		39	10 - 110
Hexachloropropene	1.67	1.20		mg/Kg		72	54 - 110
Indeno[1,2,3-cd]pyrene	1.67	1.36		mg/Kg		82	53 - 116
Isophorone	1.67	1.14		mg/Kg		69	49 - 110
2-Methylnaphthalene	1.67	1.20		mg/Kg		72	51 - 110
2-Methylphenol	1.67	1.08		mg/Kg		65	48 - 110
3 & 4 Methylphenol	1.67	1.36		mg/Kg		82	44 - 121
Naphthalene	1.67	1.29		mg/Kg		77	48 - 110
2-Nitroaniline	1.67	1.27		mg/Kg		76	53 - 126
3-Nitroaniline	1.67	0.856		mg/Kg		51	36 - 110
4-Nitroaniline	1.67	1.02		mg/Kg		61	44 - 124
Nitrobenzene	1.67	1.20		mg/Kg		72	52 - 110
2-Nitrophenol	1.67	1.20		mg/Kg		72	54 - 112
4-Nitrophenol	1.67	1.58		mg/Kg		95	39 - 125
N-Nitrosodiethylamine	1.67	1.15		mg/Kg		69	50 - 110
N-Nitrosodimethylamine	1.67	1.03		mg/Kg		62	42 - 110
N-Nitrosodi-n-butylamine	1.67	1.23		mg/Kg		74	46 - 138
N-Nitrosodi-n-propylamine	1.67	1.42		mg/Kg		85	40 - 121
N-Nitrosodiphenylamine	1.67	1.27		mg/Kg		76	58 - 110
N-Nitrosomethylethylamine	1.67	1.22		mg/Kg		73	49 - 114
N-Nitrosopiperidine	1.67	1.18		mg/Kg		71	56 - 123
N-Nitrosopyrrolidine	1.67	1.25		mg/Kg		75	46 - 116
2,2'-oxybis[1-chloropropane]	1.67	1.23		mg/Kg		74	36 - 110
Pentachlorobenzene	1.67	1.22		mg/Kg		73	70 - 110
Pentachlorophenol	1.67	0.906		mg/Kg		54	20 - 117
Phenanthrene	1.67	1.18		mg/Kg		71	51 - 116
Phenol	1.67	1.24		mg/Kg		74	49 - 110
Pyrene	1.67	1.28		mg/Kg		77	50 - 112
Pyridine	1.67	0.911		mg/Kg		55	24 - 100
1,2,4,5-Tetrachlorobenzene	1.67	1.31		mg/Kg		79	63 - 110
2,3,4,6-Tetrachlorophenol	1.67	1.07		mg/Kg		64	45 - 116
1,2,4-Trichlorobenzene	1.67	1.18		mg/Kg		71	57 - 110
2,4,5-Trichlorophenol	1.67	1.17		mg/Kg		70	57 - 113
2,4,6-Trichlorophenol	1.67	1.23		mg/Kg		74	55 - 112

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*88*		*30 - 119*
2-Fluorophenol	*79*		*30 - 110*
Nitrobenzene-d5	*82*		*30 - 115*
Phenol-d5	*79*		*31 - 110*
Terphenyl-d14	*88*		*36 - 134*
2,4,6-Tribromophenol	*68*		*35 - 137*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-180225/1-A
Matrix: Solid
Analysis Batch: 180355

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180225

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0017	U	0.0017	0.00069	mg/Kg		03/19/13 07:15	03/21/13 01:45	1
alpha-BHC	0.0017	U	0.0017	0.00042	mg/Kg		03/19/13 07:15	03/21/13 01:45	1
beta-BHC	0.0017	U	0.0017	0.00052	mg/Kg		03/19/13 07:15	03/21/13 01:45	1
Chlordane (technical)	0.0067	U	0.0067	0.0033	mg/Kg		03/19/13 07:15	03/21/13 01:45	1
4,4'-DDD	0.0017	U	0.0017	0.00033	mg/Kg		03/19/13 07:15	03/21/13 01:45	1
4,4'-DDE	0.0017	U	0.0017	0.00028	mg/Kg		03/19/13 07:15	03/21/13 01:45	1
4,4'-DDT	0.0017	U	0.0017	0.00088	mg/Kg		03/19/13 07:15	03/21/13 01:45	1
delta-BHC	0.0017	U	0.0017	0.00053	mg/Kg		03/19/13 07:15	03/21/13 01:45	1
Dieldrin	0.0017	U	0.0017	0.00023	mg/Kg		03/19/13 07:15	03/21/13 01:45	1
Endosulfan I	0.0017	U	0.0017	0.00073	mg/Kg		03/19/13 07:15	03/21/13 01:45	1
Endosulfan II	0.0017	U	0.0017	0.00027	mg/Kg		03/19/13 07:15	03/21/13 01:45	1
Endosulfan sulfate	0.0017	U	0.0017	0.00031	mg/Kg		03/19/13 07:15	03/21/13 01:45	1
Endrin	0.0017	U	0.0017	0.00023	mg/Kg		03/19/13 07:15	03/21/13 01:45	1
Endrin aldehyde	0.0017	U	0.0017	0.00028	mg/Kg		03/19/13 07:15	03/21/13 01:45	1
Endrin ketone	0.0017	U	0.0017	0.00038	mg/Kg		03/19/13 07:15	03/21/13 01:45	1
gamma-BHC (Lindane)	0.0017	U	0.0017	0.00036	mg/Kg		03/19/13 07:15	03/21/13 01:45	1
Heptachlor	0.0017	U	0.0017	0.00070	mg/Kg		03/19/13 07:15	03/21/13 01:45	1
Heptachlor epoxide	0.0017	U	0.0017	0.00059	mg/Kg		03/19/13 07:15	03/21/13 01:45	1
Isodrin	0.0017	U	0.0017	0.00078	mg/Kg		03/19/13 07:15	03/21/13 01:45	1
Methoxychlor	0.0083	U	0.0083	0.00032	mg/Kg		03/19/13 07:15	03/21/13 01:45	1
Toxaphene	0.017	U	0.017	0.0070	mg/Kg		03/19/13 07:15	03/21/13 01:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*		*56 - 128*	*03/19/13 07:15*	*03/21/13 01:45*	*1*
Tetrachloro-m-xylene	*83*		*45 - 112*	*03/19/13 07:15*	*03/21/13 01:45*	*1*

Lab Sample ID: LCS 500-180225/2-A
Matrix: Solid
Analysis Batch: 180355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.0133	0.0107		mg/Kg		80	54 - 110
alpha-BHC	0.0133	0.0107		mg/Kg		80	53 - 110
beta-BHC	0.0133	0.0109		mg/Kg		82	65 - 110
4,4'-DDD	0.0133	0.0108		mg/Kg		81	66 - 110
4,4'-DDE	0.0133	0.0107		mg/Kg		80	64 - 110
4,4'-DDT	0.0133	0.00975		mg/Kg		73	50 - 115
delta-BHC	0.0133	0.00930		mg/Kg		70	50 - 110
Dieldrin	0.0133	0.0107		mg/Kg		80	63 - 110
Endosulfan I	0.0133	0.0105		mg/Kg		79	51 - 110
Endosulfan II	0.0133	0.0102		mg/Kg		77	56 - 110
Endosulfan sulfate	0.0133	0.0107		mg/Kg		80	63 - 120
Endrin	0.0133	0.00997		mg/Kg		75	59 - 110
Endrin aldehyde	0.0133	0.0108		mg/Kg		81	56 - 110
Endrin ketone	0.0133	0.0109		mg/Kg		82	59 - 120
gamma-BHC (Lindane)	0.0133	0.0107		mg/Kg		80	55 - 110
Heptachlor	0.0133	0.0112		mg/Kg		84	50 - 110
Heptachlor epoxide	0.0133	0.0105		mg/Kg		79	50 - 122

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-180225/2-A
Matrix: Solid
Analysis Batch: 180355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methoxychlor	0.0133	0.0106		mg/Kg		79	52 - 119

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*85*		*56 - 128*
Tetrachloro-m-xylene	*84*		*45 - 112*

Lab Sample ID: 680-88339-3 MS
Matrix: Solid
Analysis Batch: 180355

Client Sample ID: DDSB-6-0-2-10-20130314-01
Prep Type: Total/NA
Prep Batch: 180225

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.0019	U	0.0150	0.0115		mg/Kg	☼	77	54 - 110
alpha-BHC	0.0019	U	0.0150	0.0119		mg/Kg	☼	80	53 - 110
beta-BHC	0.0019	U	0.0150	0.0124		mg/Kg	☼	83	65 - 110
4,4'-DDD	0.0019	U	0.0150	0.0128		mg/Kg	☼	85	66 - 110
4,4'-DDE	0.0019	U	0.0150	0.0127		mg/Kg	☼	85	64 - 110
4,4'-DDT	0.0019	U	0.0150	0.0103		mg/Kg	☼	69	50 - 115
delta-BHC	0.0019	U	0.0150	0.00981		mg/Kg	☼	66	50 - 110
Dieldrin	0.0019	U	0.0150	0.0125		mg/Kg	☼	83	63 - 110
Endosulfan I	0.0019	U	0.0150	0.0119		mg/Kg	☼	80	51 - 110
Endosulfan II	0.0019	U	0.0150	0.0122		mg/Kg	☼	82	56 - 110
Endosulfan sulfate	0.0019	U	0.0150	0.0127		mg/Kg	☼	85	63 - 120
Endrin	0.0019	U	0.0150	0.0116		mg/Kg	☼	78	59 - 110
Endrin aldehyde	0.0019	U	0.0150	0.0131		mg/Kg	☼	88	56 - 110
Endrin ketone	0.0019	U	0.0150	0.0124		mg/Kg	☼	83	59 - 120
gamma-BHC (Lindane)	0.0019	U	0.0150	0.0119		mg/Kg	☼	79	55 - 110
Heptachlor	0.0019	U	0.0150	0.0117		mg/Kg	☼	78	50 - 110
Heptachlor epoxide	0.0019	U	0.0150	0.0114		mg/Kg	☼	76	50 - 122
Methoxychlor	0.0091	U	0.0150	0.0127		mg/Kg	☼	85	52 - 119

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*87*		*56 - 128*
Tetrachloro-m-xylene	*76*		*45 - 112*

Lab Sample ID: 680-88339-3 MSD
Matrix: Solid
Analysis Batch: 180355

Client Sample ID: DDSB-6-0-2-10-20130314-01
Prep Type: Total/NA
Prep Batch: 180225

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	0.0019	U	0.0145	0.0113		mg/Kg	☼	78	54 - 110	2	30
alpha-BHC	0.0019	U	0.0145	0.0114		mg/Kg	☼	79	53 - 110	4	30
beta-BHC	0.0019	U	0.0145	0.0126		mg/Kg	☼	87	65 - 110	1	30
4,4'-DDD	0.0019	U	0.0145	0.0130		mg/Kg	☼	90	66 - 110	2	30
4,4'-DDE	0.0019	U	0.0145	0.0134		mg/Kg	☼	93	64 - 110	6	30
4,4'-DDT	0.0019	U	0.0145	0.00967		mg/Kg	☼	67	50 - 115	7	30
delta-BHC	0.0019	U	0.0145	0.00967		mg/Kg	☼	67	50 - 110	1	30
Dieldrin	0.0019	U	0.0145	0.0123		mg/Kg	☼	85	63 - 110	1	30
Endosulfan I	0.0019	U	0.0145	0.0119		mg/Kg	☼	82	51 - 110	0	30

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 680-88339-3 MSD
Matrix: Solid
Analysis Batch: 180355

Client Sample ID: DDSB-6-0-2-10-20130314-01
Prep Type: Total/NA
Prep Batch: 180225

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endosulfan II	0.0019	U	0.0145	0.0121		mg/Kg	☼	83	56 - 110	1	30
Endosulfan sulfate	0.0019	U	0.0145	0.0125		mg/Kg	☼	86	63 - 120	2	30
Endrin	0.0019	U	0.0145	0.0116		mg/Kg	☼	80	59 - 110	1	30
Endrin aldehyde	0.0019	U	0.0145	0.0129		mg/Kg	☼	89	56 - 110	2	30
Endrin ketone	0.0019	U	0.0145	0.0118		mg/Kg	☼	81	59 - 120	5	30
gamma-BHC (Lindane)	0.0019	U	0.0145	0.0116		mg/Kg	☼	80	55 - 110	2	30
Heptachlor	0.0019	U	0.0145	0.0117		mg/Kg	☼	81	50 - 110	0	30
Heptachlor epoxide	0.0019	U	0.0145	0.0117		mg/Kg	☼	81	50 - 122	3	30
Methoxychlor	0.0091	U	0.0145	0.0126		mg/Kg	☼	87	52 - 119	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*87*		*56 - 128*
Tetrachloro-m-xylene	*74*		*45 - 112*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-180225/1-A
Matrix: Solid
Analysis Batch: 180342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180225

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.017	U	0.017	0.0059	mg/Kg		03/19/13 07:15	03/20/13 13:22	1
PCB-1221	0.017	U	0.017	0.0073	mg/Kg		03/19/13 07:15	03/20/13 13:22	1
PCB-1232	0.017	U	0.017	0.0073	mg/Kg		03/19/13 07:15	03/20/13 13:22	1
PCB-1242	0.017	U	0.017	0.0055	mg/Kg		03/19/13 07:15	03/20/13 13:22	1
PCB-1248	0.017	U	0.017	0.0066	mg/Kg		03/19/13 07:15	03/20/13 13:22	1
PCB-1254	0.017	U	0.017	0.0036	mg/Kg		03/19/13 07:15	03/20/13 13:22	1
PCB-1260	0.017	U	0.017	0.0082	mg/Kg		03/19/13 07:15	03/20/13 13:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*114*		*50 - 116*	*03/19/13 07:15*	*03/20/13 13:22*	*1*
DCB Decachlorobiphenyl	*103*		*48 - 142*	*03/19/13 07:15*	*03/20/13 13:22*	*1*

Lab Sample ID: LCS 500-180225/3-A
Matrix: Solid
Analysis Batch: 180342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.167	0.145		mg/Kg		87	59 - 110
PCB-1260	0.167	0.173		mg/Kg		104	69 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*94*		*50 - 116*
DCB Decachlorobiphenyl	*103*		*48 - 142*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 680-88339-3 MS
Matrix: Solid
Analysis Batch: 180342

Client Sample ID: DDSB-6-0-2-10-20130314-01
Prep Type: Total/NA
Prep Batch: 180225

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.018	U	0.186	0.154		mg/Kg	☼	83	59 - 110
PCB-1260	0.018	U	0.186	0.187		mg/Kg	☼	100	69 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*71*		*50 - 116*
DCB Decachlorobiphenyl	*98*		*48 - 142*

Lab Sample ID: 680-88339-3 MSD
Matrix: Solid
Analysis Batch: 180342

Client Sample ID: DDSB-6-0-2-10-20130314-01
Prep Type: Total/NA
Prep Batch: 180225

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	0.018	U	0.184	0.161		mg/Kg	☼	88	59 - 110	4	30
PCB-1260	0.018	U	0.184	0.185		mg/Kg	☼	101	69 - 120	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*82*		*50 - 116*
DCB Decachlorobiphenyl	*97*		*48 - 142*

Method: 8141A - Organophosphorous Pesticides (GC)

Lab Sample ID: MB 640-100288/1-A
Matrix: Solid
Analysis Batch: 100656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.064	U	0.064	0.0028	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Azinphos-methyl	0.064	U	0.064	0.015	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Bolstar	0.032	U	0.032	0.0046	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Carbophenthion	0.064	U	0.064	0.0052	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Chlorpyrifos	0.032	U	0.032	0.0066	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Chlorpyrifos-methyl	0.032	U	0.032	0.012	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Coumaphos	0.32	U	0.32	0.021	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Demeton-O	0.081	U	0.081	0.0025	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Demeton-S	0.081	U	0.081	0.0054	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Demeton, Total	0.081	U	0.081	0.0075	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Diazinon	0.032	U	0.032	0.0055	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Dichlofenthion	0.032	U	0.032	0.0041	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Dichlorvos	0.064	U	0.064	0.0062	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Dimethoate	0.064	U	0.064	0.0086	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Disulfoton	0.064	U	0.064	0.016	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
EPN	0.032	U	0.032	0.0044	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Ethion	0.017	U	0.017	0.0052	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Ethoprop	0.017	U	0.017	0.0041	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Ethyl Parathion	0.032	U	0.032	0.0053	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Famphur	0.064	U	0.064	0.0081	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Fensulfothion	0.32	U	0.32	0.012	mg/Kg		03/18/13 14:54	03/28/13 15:20	1

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: MB 640-100288/1-A
Matrix: Solid
Analysis Batch: 100656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fenthion	0.032	U	0.032	0.0046	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Malathion	0.032	U	0.032	0.0080	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Merphos	0.032	U	0.032	0.011	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Methyl parathion	0.017	U	0.017	0.0053	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Mevinphos	0.064	U	0.064	0.0045	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Monochrotophos	0.32	U	0.32	0.045	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Naled	0.32	U	0.32	0.021	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Phorate	0.032	U	0.032	0.0053	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Ronnel	0.032	U	0.032	0.0041	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Simazine	0.064	U	0.064	0.0031	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Stirophos	0.032	U	0.032	0.0062	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Sulfotepp	0.017	U	0.017	0.0084	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Terbufos	0.017	U	0.017	0.016	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Thionazin	0.032	U	0.032	0.0097	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Tokuthion	0.032	U	0.032	0.0053	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Trichloronate	0.32	U	0.32	0.0074	mg/Kg		03/18/13 14:54	03/28/13 15:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate (TPP)	*89*		*35 - 134*	*03/18/13 14:54*	*03/28/13 15:20*	*1*

Lab Sample ID: LCS 640-100288/2-A
Matrix: Solid
Analysis Batch: 100656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	0.656	0.519		mg/Kg		79	56 - 119
Azinphos-methyl	0.164	0.154		mg/Kg		94	52 - 122
Bolstar	0.164	0.151		mg/Kg		92	55 - 141
Chlorpyrifos	0.164	0.132		mg/Kg		80	40 - 132
Coumaphos	0.164	0.157	J	mg/Kg		96	47 - 160
Demeton, Total	0.328	0.277		mg/Kg		84	31 - 118
Diazinon	0.164	0.129		mg/Kg		79	36 - 113
Dichlofenthion	0.164	0.139		mg/Kg		85	36 - 114
Dichlorvos	0.164	0.110		mg/Kg		67	10 - 154
EPN	0.164	0.200		mg/Kg		122	68 - 159
Ethion	0.164	0.135		mg/Kg		83	49 - 128
Ethoprop	0.164	0.137		mg/Kg		83	23 - 134
Ethyl Parathion	0.164	0.149		mg/Kg		91	53 - 126
Famphur	0.164	0.156		mg/Kg		95	53 - 118
Fensulfothion	0.164	0.173	J	mg/Kg		106	33 - 168
Fenthion	0.164	0.137		mg/Kg		84	41 - 136
Malathion	0.164	0.134		mg/Kg		82	45 - 125
Methyl parathion	0.164	0.149		mg/Kg		91	44 - 126
Mevinphos	0.164	0.149		mg/Kg		91	10 - 156
Monochrotophos	0.656	0.639		mg/Kg		97	15 - 167
Naled	0.656	0.484		mg/Kg		74	13 - 102
Phorate	0.164	0.125		mg/Kg		76	17 - 142
Ronnel	0.164	0.149		mg/Kg		91	36 - 134

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: LCS 640-100288/2-A
Matrix: Solid
Analysis Batch: 100656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Simazine	0.656	0.392		mg/Kg		60	42 - 127
Tokuthion	0.164	0.140		mg/Kg		86	48 - 142

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate (TPP)	*80*		*35 - 134*

Lab Sample ID: LCS 640-100288/6-A
Matrix: Solid
Analysis Batch: 100667

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbophenthion	0.0650	0.0464	J	mg/Kg		71	50 - 130
Chlorpyrifos-methyl	0.0650	0.0476		mg/Kg		73	50 - 130
Dimethoate	0.0650	0.0546	J	mg/Kg		84	50 - 130
Disulfoton	0.0650	0.0462	J	mg/Kg		71	50 - 130
Merphos	0.130	0.103		mg/Kg		79	50 - 130
Sulfotepp	0.0325	0.0233		mg/Kg		72	50 - 130
Terbufos	0.0650	0.0493		mg/Kg		76	50 - 130
Thionazin	0.0650	0.0501		mg/Kg		77	29 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate (TPP)	*75*		*35 - 134*

Lab Sample ID: LCSD 640-100288/3-A
Matrix: Solid
Analysis Batch: 100656

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100288

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Atrazine	0.666	0.481		mg/Kg		72	56 - 119	8	30
Azinphos-methyl	0.167	0.145		mg/Kg		87	52 - 122	6	30
Bolstar	0.167	0.134		mg/Kg		81	55 - 141	11	30
Chlorpyrifos	0.167	0.124		mg/Kg		74	40 - 132	6	30
Coumaphos	0.167	0.148	J	mg/Kg		89	47 - 160	6	30
Demeton, Total	0.333	0.266		mg/Kg		80	31 - 118	4	41
Diazinon	0.167	0.121		mg/Kg		73	36 - 113	7	38
Dichlofenthion	0.167	0.127		mg/Kg		76	36 - 114	9	33
Dichlorvos	0.167	0.0968		mg/Kg		58	10 - 154	12	51
EPN	0.167	0.182		mg/Kg		109	68 - 159	10	30
Ethion	0.167	0.121		mg/Kg		73	49 - 128	11	30
Ethoprop	0.167	0.131		mg/Kg		79	23 - 134	4	45
Ethyl Parathion	0.167	0.139		mg/Kg		83	53 - 126	7	30
Famphur	0.167	0.140		mg/Kg		84	53 - 118	10	30
Fensulfothion	0.167	0.154	J	mg/Kg		92	33 - 168	12	30
Fenthion	0.167	0.127		mg/Kg		76	41 - 136	8	30
Malathion	0.167	0.126		mg/Kg		76	45 - 125	6	30
Methyl parathion	0.167	0.138		mg/Kg		83	44 - 126	8	30
Mevinphos	0.167	0.142		mg/Kg		85	10 - 156	5	50
Monochrotophos	0.666	0.522		mg/Kg		78	15 - 167	20	60

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: LCSD 640-100288/3-A
Matrix: Solid
Analysis Batch: 100656

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100288

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naled			0.666	0.492		mg/Kg		74	13 - 102	2	53
Phorate			0.167	0.118		mg/Kg		71	17 - 142	6	46
Ronnel			0.167	0.128		mg/Kg		77	36 - 134	15	35
Simazine			0.666	0.364		mg/Kg		55	42 - 127	8	31
Tokuthion			0.167	0.125		mg/Kg		75	48 - 142	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Triphenylphosphate (TPP)	*85*		*35 - 134*

Lab Sample ID: LCSD 640-100288/7-A
Matrix: Solid
Analysis Batch: 100667

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100288

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbophenthion			0.0661	0.0440	J	mg/Kg		67	50 - 130	5	50
Chlorpyrifos-methyl			0.0661	0.0456		mg/Kg		69	50 - 130	4	50
Dimethoate			0.0661	0.0524	J	mg/Kg		79	50 - 130	4	50
Disulfoton			0.0661	0.0442	J	mg/Kg		67	50 - 130	4	50
Merphos			0.132	0.102		mg/Kg		77	50 - 130	1	50
Sulfotepp			0.0331	0.0227		mg/Kg		69	50 - 130	3	50
Terbufos			0.0661	0.0473		mg/Kg		71	50 - 130	4	50
Thionazin			0.0661	0.0490		mg/Kg		74	29 - 130	2	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Triphenylphosphate (TPP)	*80*		*35 - 134*

Lab Sample ID: 680-88339-2 MS
Matrix: Solid
Analysis Batch: 100675

Client Sample ID: DDSB-5-8-10-20130314-01
Prep Type: Total/NA
Prep Batch: 100288

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	0.080	U	0.802	0.329		mg/Kg	☼	41	19 - 121
Azinphos-methyl	0.080	U	0.201	0.101		mg/Kg	☼	50	28 - 106
Bolstar	0.040	U	0.201	0.109		mg/Kg	☼	54	37 - 130
Chlorpyrifos	0.040	U	0.201	0.0938		mg/Kg	☼	47	26 - 127
Coumaphos	0.40	U	0.201	0.116	J	mg/Kg	☼	58	28 - 139
Demeton, Total	0.10	U	0.401	0.162		mg/Kg	☼	40	10 - 124
Diazinon	0.040	U	0.201	0.0866		mg/Kg	☼	43	18 - 121
Dichlofenthion	0.040	U	0.201	0.0945		mg/Kg	☼	47	24 - 104
Dichlorvos	0.080	U	0.201	0.0632	J	mg/Kg	☼	31	10 - 139
EPN	0.040	U	0.201	0.137		mg/Kg	☼	68	39 - 146
Ethion	0.021	U	0.201	0.0953		mg/Kg	☼	48	40 - 118
Ethoprop	0.021	U	0.201	0.0883		mg/Kg	☼	44	10 - 130
Ethyl Parathion	0.040	U	0.201	0.101		mg/Kg	☼	50	42 - 124
Famphur	0.080	U	0.201	0.0794		mg/Kg	☼	40	24 - 105
Fensulfothion	0.40	U	0.201	0.0909	J	mg/Kg	☼	45	10 - 150
Fenthion	0.040	U	0.201	0.0875		mg/Kg	☼	44	21 - 133
Malathion	0.040	U	0.201	0.0833		mg/Kg	☼	42	30 - 119

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: 680-88339-2 MS
Matrix: Solid
Analysis Batch: 100675

Client Sample ID: DDSB-5-8-10-20130314-01
Prep Type: Total/NA
Prep Batch: 100288

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl parathion	0.021	U	0.201	0.0907		mg/Kg	☼	45	32 - 119
Mevinphos	0.080	U	0.201	0.0721	J	mg/Kg	☼	36	10 - 129
Monochrotophos	0.40	U	0.802	0.160	J	mg/Kg	☼	20	10 - 128
Naled	0.40	U	0.802	0.272	J	mg/Kg	☼	34	10 - 121
Phorate	0.040	U	0.201	0.0850		mg/Kg	☼	42	10 - 150
Ronnel	0.040	U	0.201	0.104		mg/Kg	☼	52	18 - 128
Simazine	0.080	U	0.802	0.236		mg/Kg	☼	29	10 - 120
Tokuthion	0.040	U	0.201	0.104		mg/Kg	☼	52	39 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Triphenylphosphate (TPP)	*44*		*35 - 134*

Lab Sample ID: 680-88339-2 MSD
Matrix: Solid
Analysis Batch: 100675

Client Sample ID: DDSB-5-8-10-20130314-01
Prep Type: Total/NA
Prep Batch: 100288

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Atrazine	0.080	U	0.799	0.426		mg/Kg	☼	53	19 - 121	26	60
Azinphos-methyl	0.080	U	0.200	0.126		mg/Kg	☼	63	28 - 106	22	40
Bolstar	0.040	U	0.200	0.137		mg/Kg	☼	69	37 - 130	23	30
Chlorpyrifos	0.040	U	0.200	0.125		mg/Kg	☼	63	26 - 127	29	40
Coumaphos	0.40	U	0.200	0.135	J	mg/Kg	☼	67	28 - 139	15	36
Demeton, Total	0.10	U	0.400	0.232		mg/Kg	☼	58	10 - 124	35	54
Diazinon	0.040	U	0.200	0.117		mg/Kg	☼	58	18 - 121	30	60
Dichlofenthion	0.040	U	0.200	0.129	F	mg/Kg	☼	64	24 - 104	31	30
Dichlorvos	0.080	U	0.200	0.0820		mg/Kg	☼	41	10 - 139	26	60
EPN	0.040	U	0.200	0.167		mg/Kg	☼	83	39 - 146	20	30
Ethion	0.021	U	0.200	0.120		mg/Kg	☼	60	40 - 118	23	33
Ethoprop	0.021	U	0.200	0.125		mg/Kg	☼	62	10 - 130	34	60
Ethyl Parathion	0.040	U	0.200	0.133		mg/Kg	☼	67	42 - 124	28	40
Famphur	0.080	U	0.200	0.104		mg/Kg	☼	52	24 - 105	26	38
Fensulfothion	0.40	U	0.200	0.116	J	mg/Kg	☼	58	10 - 150	24	60
Fenthion	0.040	U	0.200	0.123		mg/Kg	☼	61	21 - 133	34	36
Malathion	0.040	U	0.200	0.114		mg/Kg	☼	57	30 - 119	31	32
Methyl parathion	0.021	U	0.200	0.127		mg/Kg	☼	64	32 - 119	34	42
Mevinphos	0.080	U	0.200	0.103		mg/Kg	☼	52	10 - 129	36	60
Monochrotophos	0.40	U	0.799	0.213	J	mg/Kg	☼	27	10 - 128	29	60
Naled	0.40	U	0.799	0.412		mg/Kg	☼	52	10 - 121	41	60
Phorate	0.040	U	0.200	0.115		mg/Kg	☼	58	10 - 150	30	60
Ronnel	0.040	U	0.200	0.141		mg/Kg	☼	70	18 - 128	30	57
Simazine	0.080	U	0.799	0.311		mg/Kg	☼	39	10 - 120	27	60
Tokuthion	0.040	U	0.200	0.133		mg/Kg	☼	67	39 - 135	25	37

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Triphenylphosphate (TPP)	*44*		*35 - 134*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 680-269729/1-A
Matrix: Solid
Analysis Batch: 270010

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 269729

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	20	U	20	10	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Antimony	2.0	U	2.0	0.53	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Arsenic	2.0	U	2.0	0.59	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Barium	1.0	U	1.0	0.30	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Beryllium	0.40	U	0.40	0.020	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Cadmium	0.50	U	0.50	0.10	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Calcium	50	U	50	20	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Chromium	1.0	U	1.0	0.50	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Cobalt	1.0	U	1.0	0.12	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Copper	2.5	U	2.5	1.1	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Iron	20	U	20	7.0	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Lead	1.0	U	1.0	0.53	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Magnesium	50	U	50	2.4	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Manganese	1.0	U	1.0	0.30	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Nickel	4.0	U	4.0	0.31	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Potassium	100	U	100	8.0	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Selenium	2.5	U	2.5	1.0	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Silver	1.0	U	1.0	0.096	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Sodium	200	U	200	82	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Thallium	2.5	U	2.5	0.99	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Vanadium	1.0	U	1.0	0.24	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Zinc	2.0	U	2.0	1.2	mg/Kg		03/18/13 13:13	03/19/13 16:17	1

Lab Sample ID: LCS 680-269729/3-A
Matrix: Solid
Analysis Batch: 270010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269729

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	192	202		mg/Kg		105	75 - 125
Antimony	19.2	18.5		mg/Kg		96	75 - 125
Arsenic	19.2	21.2		mg/Kg		110	75 - 125
Barium	19.2	19.2		mg/Kg		100	75 - 125
Beryllium	19.2	19.4		mg/Kg		101	75 - 125
Cadmium	19.2	19.2		mg/Kg		100	75 - 125
Calcium	1920	1880		mg/Kg		98	75 - 125
Chromium	19.2	19.3		mg/Kg		100	75 - 125
Cobalt	19.2	19.0		mg/Kg		99	75 - 125
Copper	19.2	19.3		mg/Kg		100	75 - 125
Iron	1920	1980		mg/Kg		103	75 - 125
Lead	19.2	19.0		mg/Kg		99	75 - 125
Magnesium	1920	1920		mg/Kg		100	75 - 125
Manganese	192	196		mg/Kg		102	75 - 125
Nickel	19.2	19.3		mg/Kg		100	75 - 125
Potassium	1920	1900		mg/Kg		99	75 - 125
Selenium	19.2	19.2		mg/Kg		100	75 - 125
Silver	19.2	19.7		mg/Kg		103	75 - 125
Sodium	1920	1660		mg/Kg		86	75 - 125
Thallium	3.85	4.62		mg/Kg		120	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 680-269729/3-A
Matrix: Solid
Analysis Batch: 270010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269729

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	19.2	19.3		mg/Kg		100	75 - 125
Zinc	19.2	18.3		mg/Kg		95	75 - 125

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 680-269698/1-A
Matrix: Solid
Analysis Batch: 270183

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 269698

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	U	0.020	0.0082	mg/Kg		03/18/13 11:09	03/20/13 18:10	1

Lab Sample ID: LCS 680-269698/2-A
Matrix: Solid
Analysis Batch: 270183

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269698

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.245	0.248		mg/Kg		101	80 - 120

Lab Sample ID: MB 680-269705/1-A
Matrix: Solid
Analysis Batch: 270183

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 269705

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	U	0.020	0.0082	mg/Kg		03/18/13 11:25	03/20/13 19:19	1

Lab Sample ID: LCS 680-269705/2-A
Matrix: Solid
Analysis Batch: 270183

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269705

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.240	0.240		mg/Kg		100	80 - 120

Lab Sample ID: MB 680-270241/1-A
Matrix: Solid
Analysis Batch: 270366

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 270241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	U	0.020	0.0080	mg/Kg		03/21/13 16:41	03/22/13 12:04	1

Lab Sample ID: LCS 680-270241/2-A
Matrix: Solid
Analysis Batch: 270366

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 270241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.245	0.243		mg/Kg		99	80 - 120

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 680-269690/1-A
Matrix: Solid
Analysis Batch: 270007

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 269690

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.99	U	0.99	0.30	mg/Kg		03/18/13 10:55	03/20/13 12:22	1

Lab Sample ID: LCS 680-269690/2-A
Matrix: Solid
Analysis Batch: 270007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269690

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	19.6	19.5		mg/Kg		100	80 - 120

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 680-269701/1-A
Matrix: Solid
Analysis Batch: 269753

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 269701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.50	U	0.50	0.21	mg/Kg		03/18/13 09:30	03/18/13 14:15	1

Lab Sample ID: LCS 680-269701/2-A
Matrix: Solid
Analysis Batch: 269753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	5.00	4.78		mg/Kg		96	75 - 125

QC Association Summary

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

GC/MS VOA

Prep Batch: 269957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88339-2	DDSB-5-8-10-20130314-01	Total/NA	Solid	5035	
680-88339-3	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	5035	
680-88339-4	DDSB-6-16-20-10-20130314-01	Total/NA	Solid	5035	

Analysis Batch: 270151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88339-2	DDSB-5-8-10-20130314-01	Total/NA	Solid	8260B	269957
LCS 680-270151/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 680-270151/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 680-270151/7	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 270344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88339-3	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	8260B	269957
LCS 680-270344/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 680-270344/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 680-270344/7	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 270346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88339-4	DDSB-6-16-20-10-20130314-01	Total/NA	Solid	8260B	269957
LCS 680-270346/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 680-270346/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 680-270346/7	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 271096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88339-1	TRIP BLANK	Total/NA	Water	8260B	
680-88339-5	TB-05-20130314-01	Total/NA	Water	8260B	
LCS 680-271096/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-271096/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-271096/7	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 180202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88339-2	DDSB-5-8-10-20130314-01	Total/NA	Solid	3541	
680-88339-3	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	3541	
680-88339-4	DDSB-6-16-20-10-20130314-01	Total/NA	Solid	3541	
LCS 500-180202/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-180202/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 180723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-180202/2-A	Lab Control Sample	Total/NA	Solid	8270C	180202
MB 500-180202/1-A	Method Blank	Total/NA	Solid	8270C	180202

GC/MS Semi VOA (Continued)

Analysis Batch: 180871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88339-2	DDSB-5-8-10-20130314-01	Total/NA	Solid	8270C	180202
680-88339-3	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	8270C	180202
680-88339-4	DDSB-6-16-20-10-20130314-01	Total/NA	Solid	8270C	180202

GC Semi VOA

Prep Batch: 100288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88339-2	DDSB-5-8-10-20130314-01	Total/NA	Solid	3550B	
680-88339-2 MS	DDSB-5-8-10-20130314-01	Total/NA	Solid	3550B	
680-88339-2 MSD	DDSB-5-8-10-20130314-01	Total/NA	Solid	3550B	
680-88339-3	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	3550B	
680-88339-4	DDSB-6-16-20-10-20130314-01	Total/NA	Solid	3550B	
LCS 640-100288/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCS 640-100288/6-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 640-100288/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	
LCSD 640-100288/7-A	Lab Control Sample Dup	Total/NA	Solid	3550B	
MB 640-100288/1-A	Method Blank	Total/NA	Solid	3550B	

Analysis Batch: 100656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 640-100288/2-A	Lab Control Sample	Total/NA	Solid	8141A	100288
LCSD 640-100288/3-A	Lab Control Sample Dup	Total/NA	Solid	8141A	100288
MB 640-100288/1-A	Method Blank	Total/NA	Solid	8141A	100288

Analysis Batch: 100667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88339-2	DDSB-5-8-10-20130314-01	Total/NA	Solid	8141A	100288
680-88339-3	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	8141A	100288
680-88339-4	DDSB-6-16-20-10-20130314-01	Total/NA	Solid	8141A	100288
LCS 640-100288/6-A	Lab Control Sample	Total/NA	Solid	8141A	100288
LCSD 640-100288/7-A	Lab Control Sample Dup	Total/NA	Solid	8141A	100288

Analysis Batch: 100675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88339-2 MS	DDSB-5-8-10-20130314-01	Total/NA	Solid	8141A	100288
680-88339-2 MSD	DDSB-5-8-10-20130314-01	Total/NA	Solid	8141A	100288

Prep Batch: 180225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88339-2	DDSB-5-8-10-20130314-01	Total/NA	Solid	3541	
680-88339-3	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	3541	
680-88339-3 MS	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	3541	
680-88339-3 MS	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	3541	
680-88339-3 MSD	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	3541	
680-88339-3 MSD	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	3541	
680-88339-4	DDSB-6-16-20-10-20130314-01	Total/NA	Solid	3541	
LCS 500-180225/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-180225/3-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-180225/1-A	Method Blank	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Analysis Batch: 180342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88339-2	DDSB-5-8-10-20130314-01	Total/NA	Solid	8082	180225
680-88339-3	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	8082	180225
680-88339-3 MS	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	8082	180225
680-88339-3 MSD	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	8082	180225
680-88339-4	DDSB-6-16-20-10-20130314-01	Total/NA	Solid	8082	180225
LCS 500-180225/3-A	Lab Control Sample	Total/NA	Solid	8082	180225
MB 500-180225/1-A	Method Blank	Total/NA	Solid	8082	180225

Analysis Batch: 180355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88339-2	DDSB-5-8-10-20130314-01	Total/NA	Solid	8081A	180225
680-88339-3	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	8081A	180225
680-88339-3 MS	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	8081A	180225
680-88339-3 MSD	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	8081A	180225
680-88339-4	DDSB-6-16-20-10-20130314-01	Total/NA	Solid	8081A	180225
LCS 500-180225/2-A	Lab Control Sample	Total/NA	Solid	8081A	180225
MB 500-180225/1-A	Method Blank	Total/NA	Solid	8081A	180225

Metals

Prep Batch: 269698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88339-2	DDSB-5-8-10-20130314-01	Total/NA	Solid	7471A	
LCS 680-269698/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 680-269698/1-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 269705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88339-4	DDSB-6-16-20-10-20130314-01	Total/NA	Solid	7471A	
LCS 680-269705/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 680-269705/1-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 269729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88339-2	DDSB-5-8-10-20130314-01	Total/NA	Solid	3050B	
680-88339-3	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	3050B	
680-88339-4	DDSB-6-16-20-10-20130314-01	Total/NA	Solid	3050B	
LCS 680-269729/3-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 680-269729/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 270010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88339-2	DDSB-5-8-10-20130314-01	Total/NA	Solid	6010B	269729
680-88339-3	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	6010B	269729
680-88339-4	DDSB-6-16-20-10-20130314-01	Total/NA	Solid	6010B	269729
LCS 680-269729/3-A	Lab Control Sample	Total/NA	Solid	6010B	269729
MB 680-269729/1-A	Method Blank	Total/NA	Solid	6010B	269729

Metals (Continued)

Analysis Batch: 270183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88339-2	DDSB-5-8-10-20130314-01	Total/NA	Solid	7471A	269698
680-88339-4	DDSB-6-16-20-10-20130314-01	Total/NA	Solid	7471A	269705
LCS 680-269698/2-A	Lab Control Sample	Total/NA	Solid	7471A	269698
LCS 680-269705/2-A	Lab Control Sample	Total/NA	Solid	7471A	269705
MB 680-269698/1-A	Method Blank	Total/NA	Solid	7471A	269698
MB 680-269705/1-A	Method Blank	Total/NA	Solid	7471A	269705

Prep Batch: 270241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88339-3	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	7471A	
LCS 680-270241/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 680-270241/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 270366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88339-3	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	7471A	270241
LCS 680-270241/2-A	Lab Control Sample	Total/NA	Solid	7471A	270241
MB 680-270241/1-A	Method Blank	Total/NA	Solid	7471A	270241

General Chemistry

Prep Batch: 269690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88339-2	DDSB-5-8-10-20130314-01	Total/NA	Solid	3060A	
680-88339-3	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	3060A	
680-88339-4	DDSB-6-16-20-10-20130314-01	Total/NA	Solid	3060A	
LCS 680-269690/2-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 680-269690/1-A	Method Blank	Total/NA	Solid	3060A	

Prep Batch: 269701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88339-2	DDSB-5-8-10-20130314-01	Total/NA	Solid	9012A	
680-88339-3	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	9012A	
680-88339-4	DDSB-6-16-20-10-20130314-01	Total/NA	Solid	9012A	
LCS 680-269701/2-A	Lab Control Sample	Total/NA	Solid	9012A	
MB 680-269701/1-A	Method Blank	Total/NA	Solid	9012A	

Analysis Batch: 269753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88339-2	DDSB-5-8-10-20130314-01	Total/NA	Solid	9012A	269701
680-88339-3	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	9012A	269701
680-88339-4	DDSB-6-16-20-10-20130314-01	Total/NA	Solid	9012A	269701
LCS 680-269701/2-A	Lab Control Sample	Total/NA	Solid	9012A	269701
MB 680-269701/1-A	Method Blank	Total/NA	Solid	9012A	269701

Analysis Batch: 270007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88339-2	DDSB-5-8-10-20130314-01	Total/NA	Solid	7196A	269690
680-88339-3	DDSB-6-0-2-10-20130314-01	Total/NA	Solid	7196A	269690
680-88339-4	DDSB-6-16-20-10-20130314-01	Total/NA	Solid	7196A	269690

General Chemistry (Continued)

Analysis Batch: 270007 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-269690/2-A	Lab Control Sample	Total/NA	Solid	7196A	269690
MB 680-269690/1-A	Method Blank	Total/NA	Solid	7196A	269690

Client Sample ID: TRIP BLANK

Lab Sample ID: 680-88339-1

Date Collected: 03/14/13 00:00
Matrix: Water
Date Received: 03/14/13 16:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	271096	03/28/13 14:16	JD	TAL SAV

Client Sample ID: DDSB-5-8-10-20130314-01

Lab Sample ID: 680-88339-2

Date Collected: 03/14/13 08:30
Matrix: Solid
Date Received: 03/14/13 16:05
Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.744 g	5 mL	269957	03/20/13 11:18	FS	TAL SAV
Total/NA	Analysis	8260B		1			270151	03/20/13 22:35	RB	TAL SAV
Total/NA	Prep	3541			15.3387 g	0.5 mL	180202	03/18/13 16:41	DEA	TAL CHI
Total/NA	Analysis	8270C		1			180871	03/25/13 17:22	KDL	TAL CHI
Total/NA	Prep	3541			15.6337 g	5.0 mL	180225	03/19/13 07:15	STW	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 14:18	GMO	TAL CHI
Total/NA	Prep	3541			15.6337 g	5.0 mL	180225	03/19/13 07:15	STW	TAL CHI
Total/NA	Analysis	8081A		1			180355	03/21/13 02:26	PG	TAL CHI
Total/NA	Prep	3550B			00030.04 g	10.0 mL	100288	03/18/13 14:54	QC	TAL TAL
Total/NA	Analysis	8141A		1			100667	04/01/13 11:49	MLT	TAL TAL
Total/NA	Prep	3050B			1.04 g	100 mL	269729	03/18/13 13:13	BB	TAL SAV
Total/NA	Analysis	6010B		1			270010	03/19/13 17:06	BCB	TAL SAV
Total/NA	Prep	7471A			0.58 g	50 mL	269698	03/18/13 11:09	UU	TAL SAV
Total/NA	Analysis	7471A		1			270183	03/20/13 18:15	BCB	TAL SAV
Total/NA	Prep	9012A			1.01 g	50 mL	269701	03/18/13 09:30	DAM	TAL SAV
Total/NA	Analysis	9012A		1			269753	03/18/13 14:17	DAM	TAL SAV
Total/NA	Prep	3060A			1.18 g	100 mL	269690	03/18/13 10:55	BB	TAL SAV
Total/NA	Analysis	7196A		1			270007	03/20/13 12:27	JE	TAL SAV

Client Sample ID: DDSB-6-0-2-10-20130314-01

Lab Sample ID: 680-88339-3

Date Collected: 03/14/13 09:00
Matrix: Solid
Date Received: 03/14/13 16:05
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.888 g	5 mL	269957	03/20/13 11:18	FS	TAL SAV
Total/NA	Analysis	8260B		1			270344	03/21/13 15:56	RB	TAL SAV
Total/NA	Prep	3541			15.6641 g	0.5 mL	180202	03/18/13 16:41	DEA	TAL CHI
Total/NA	Analysis	8270C		1			180871	03/25/13 17:39	KDL	TAL CHI
Total/NA	Prep	3541			15.4770 g	5.0 mL	180225	03/19/13 07:15	STW	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 14:32	GMO	TAL CHI
Total/NA	Prep	3541			15.4770 g	5.0 mL	180225	03/19/13 07:15	STW	TAL CHI
Total/NA	Analysis	8081A		1			180355	03/21/13 02:46	PG	TAL CHI
Total/NA	Prep	3550B			00030.85 g	10.0 mL	100288	03/18/13 14:54	QC	TAL TAL
Total/NA	Analysis	8141A		1			100667	04/01/13 12:03	MLT	TAL TAL
Total/NA	Prep	3550B			00030.85 g	10.0 mL	100288	03/18/13 14:54	QC	TAL TAL
Total/NA	Analysis	8141A		1			100667	04/01/13 12:03	MLT	TAL TAL

Lab Chronicle

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Client Sample ID: DDSB-6-0-2-10-20130314-01

Lab Sample ID: 680-88339-3

Date Collected: 03/14/13 09:00
Date Received: 03/14/13 16:05

Matrix: Solid
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.08 g	100 mL	269729	03/18/13 13:13	BB	TAL SAV
Total/NA	Analysis	6010B		1			270010	03/19/13 17:23	BCB	TAL SAV
Total/NA	Prep	7471A			0.55 g	50 mL	270241	03/21/13 16:41	UU	TAL SAV
Total/NA	Analysis	7471A		1			270366	03/22/13 12:55	BCB	TAL SAV
Total/NA	Prep	9012A			1.02 g	50 mL	269701	03/18/13 09:30	DAM	TAL SAV
Total/NA	Analysis	9012A		1			269753	03/18/13 14:18	DAM	TAL SAV
Total/NA	Prep	3060A			1.11 g	100 mL	269690	03/18/13 10:55	BB	TAL SAV
Total/NA	Analysis	7196A		1			270007	03/20/13 12:23	JE	TAL SAV

Client Sample ID: DDSB-6-16-20-10-20130314-01

Lab Sample ID: 680-88339-4

Date Collected: 03/14/13 10:00
Date Received: 03/14/13 16:05

Matrix: Solid
Percent Solids: 78.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.554 g	5 mL	269957	03/20/13 11:18	FS	TAL SAV
Total/NA	Analysis	8260B		1			270346	03/21/13 20:22	RB	TAL SAV
Total/NA	Prep	3541			15.7696 g	0.5 mL	180202	03/18/13 16:41	DEA	TAL CHI
Total/NA	Analysis	8270C		1			180871	03/25/13 17:57	KDL	TAL CHI
Total/NA	Prep	3541			15.4131 g	5.0 mL	180225	03/19/13 07:15	STW	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 15:15	GMO	TAL CHI
Total/NA	Prep	3541			15.4131 g	5.0 mL	180225	03/19/13 07:15	STW	TAL CHI
Total/NA	Analysis	8081A		1			180355	03/21/13 03:48	PG	TAL CHI
Total/NA	Prep	3550B			00030.02 g	10.0 mL	100288	03/18/13 14:54	QC	TAL TAL
Total/NA	Analysis	8141A		1			100667	04/01/13 12:18	MLT	TAL TAL
Total/NA	Prep	3050B			1.13 g	100 mL	269729	03/18/13 13:13	BB	TAL SAV
Total/NA	Analysis	6010B		1			270010	03/19/13 17:28	BCB	TAL SAV
Total/NA	Prep	7471A			0.54 g	50 mL	269705	03/18/13 11:25	UU	TAL SAV
Total/NA	Analysis	7471A		1			270183	03/20/13 19:50	BCB	TAL SAV
Total/NA	Prep	9012A			1.01 g	50 mL	269701	03/18/13 09:30	DAM	TAL SAV
Total/NA	Analysis	9012A		1			269753	03/18/13 14:22	DAM	TAL SAV
Total/NA	Prep	3060A			1.04 g	100 mL	269690	03/18/13 10:55	BB	TAL SAV
Total/NA	Analysis	7196A		1			270007	03/20/13 12:23	JE	TAL SAV

Client Sample ID: TB-05-20130314-01

Lab Sample ID: 680-88339-5

Date Collected: 03/14/13 00:00
Date Received: 03/14/13 16:05

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	271096	03/28/13 13:48	JD	TAL SAV

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Don Downing	Lab PM: Gulizia, Lidya	Carrier Tracking No(s):	COC No: 680-46469-20896.1
Client Contact: Mr. James Morrison	Phone: 678-230-7604	E-Mail: lidya.gulizia@testamericainc.com		Page:
Company: ERM-Southeast, Inc.				Job #:
Address: The Towers at Wildwood Plaza 3200 Windy Hill Road Suite 150	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30339				
Phone: 404-816-6168(Tel)	PO #: 176740			
Email: jim.morrison@erm.com	WO #: 176740			
Project Name: Macon MGP Due Dil. REV Soils 03/13	Project #: 68010916			
Site: Macon MGP Due Diligence Soil Event	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - 8260 VOC (FP) - DD (SAV)	6010B / 7471 Metals / 7196A Cr+6 / 9012 CN (SAV)	8141A - 8141 OP PESTS (TAL)	8081A OC PEST/ 8082 PCB / 8270C SVOC (CHI)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				E/F	N	N	N		
TRIP BLANK				Solid			3					
DDSB-5-8-10-20130314-01	3-14-13	0930	G	Solid			3	1	1	1		
DDSB-6-0-2-20130314-01	3-14-13	0900	G	Solid			3	1	1	1		
DDSB-6-18-20-20130314-01	3-14-13	~~0915~~ 1000	G	Solid			3	1	1	1		
TB-05-20130314-01	3-14-13			~~Solid~~ Water			3					
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								4.2/0.4
				Solid								2.9/2.6/3.2/2.7

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	3-14-13	FRM	[signature]	3/14/13 1510	TA
2	[signature]	03/14/13 16:05	TA	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 3/14/13 1605	Company TMSV

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 680-88339

Login Sample Receipt Checklist

Client: ERM-Southeast, Inc.

Job Number: 680-88339-2
SDG Number: AGL88339-2

Login Number: 88339
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	6 coolers range 0.4-4.2 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ERM-Southeast, Inc.

Job Number: 680-88339-2
SDG Number: AGL88339-2

Login Number: 88339
List Number: 1
Creator: Lunt, Jeff T

List Source: TestAmerica Chicago
List Creation: 03/15/13 11:24 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: ERM-Southeast, Inc.

Job Number: 680-88339-2
SDG Number: AGL88339-2

Login Number: 88339
List Number: 1
Creator: Delp, Eric

List Source: TestAmerica Tallahassee
List Creation: 03/15/13 01:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	05-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	03-31-13
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAP	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13

Certification Summary

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88339-2
SDG: AGL88339-2

Laboratory: TestAmerica Chicago (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAP	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-13
Kentucky (UST)	State Program	4	66	04-11-13
Louisiana	NELAP	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-13
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAP	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13

Laboratory: TestAmerica Tallahassee

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E81005	06-30-13
Georgia	State Program	4		06-30-13
Louisiana	NELAP	6	30663	06-30-13
New Jersey	NELAP	2	FL012	06-30-13
Texas	NELAP	6	T104704459-11-2	03-31-14
USDA	Federal		P330-08-00158	08-05-14

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-88399-1
TestAmerica Sample Delivery Group: AGL88399-1
Client Project/Site: Macon MGP Due Diligence Soil MAR 2013

For:
ERM-Southeast, Inc.
The Towers at Wildwood Plaza
3200 Windy Hill Road
Suite 1500W
Atlanta, Georgia 30339

Attn: Mr. James Morrison

Authorized for release by:
4/4/2013 5:19:04 PM

Lidya Gulizia
Project Manager II
lidya.gulizia@testamericainc.com

Table of Contents

Job ID: 680-88399-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: ERM-Southeast, Inc.

Project: Macon MGP Due Diligence Soil MAR 2013

Report Number: 680-88399-1

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

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

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

RECEIPT

The samples were received on 03/15/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.6 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples DDSB-7-0-2-20130314-01 (680-88399-2), DDSB-7-11-13-20130314-01 (680-88399-3), DDSB-8-0-2-20130314-01 (680-88399-4), DDSB-8-8-11-20130314-01 (680-88399-5), DDSB-9-0-2-20130314-01 (680-88399-6) and DDSB-9-10-12-20130314-01 (680-88399-7) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were prepared on 03/21/2013 and analyzed on 03/23/2013 and 03/24/2013.

Sample TB-01-20130314-01 (680-88399-1) was analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 03/19/2013.

The method blank for batch 270459 contained napthalene above the method detection limit (MDL). This target analyte concentration was less than one-half the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.No other difficulties were encountered during the volatiles analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples DDSB-7-0-2-20130314-01 (680-88399-2), DDSB-7-11-13-20130314-01 (680-88399-3), DDSB-8-0-2-20130314-01 (680-88399-4), DDSB-8-8-11-20130314-01 (680-88399-5), DDSB-9-0-2-20130314-01 (680-88399-6) and DDSB-9-10-12-20130314-01 (680-88399-7) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/18/2013 and analyzed on 03/25/2013 and 03/28/2013.

A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 4 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 18202 had 3 analytes {Benzidine at 6%; Benzoic Acid at 0%; and Dinoseb at 45%} outside control limits, but within marginal exceedence; therefore, corrective action was not performed. These results have been reported and qualified. DDSB-7-0-2-20130314-01 (680-88399-2), DDSB-7-11-13-20130314-01 (680-88399-3), DDSB-8-0-2-20130314-01 (680-88399-4), DDSB-8-8-11-20130314-01 (680-88399-5), DDSB-9-0-2-20130314-01 (680-88399-6), DDSB-9-10-12-20130314-01 (680-88399-7)

Job ID: 680-88399-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

The reference method specifies +/- 30 second retention time difference between the midpoint in the initial calibration (ICAL) and the continuing calibration verification (CCV). The CCV's and samples run on instrument CMS23 exceeded these criteria: DDSB-7-0-2-20130314-01 (680-88399-2), DDSB-7-11-13-20130314-01 (680-88399-3), DDSB-8-0-2-20130314-01 (680-88399-4), DDSB-8-8-11-20130314-01 (680-88399-5), DDSB-9-0-2-20130314-01 (680-88399-6), DDSB-9-10-12-20130314-01 (680-88399-7). This retention time shift is due to normal and reasonable column maintenance and does affect the instrument's chromatography resolution, sensitivity, or identification of target analytes. System tetention times have been updated for proper analyte identification.DDSB-7-0-2-20130314-01 (680-88399-2), DDSB-7-11-13-20130314-01 (680-88399-3), DDSB-8-0-2-20130314-01 (680-88399-4), DDSB-8-8-11-20130314-01 (680-88399-5), DDSB-9-0-2-20130314-01 (680-88399-6), DDSB-9-10-12-20130314-01 (680-88399-7)

The continuing calibration verification (CCV) associated with batch 500-180723/2 recovered above the upper control limit for Di-n-octyl phthalate at 29.2%D. The continuing calibration verification (CCV) associated with batch 500-180871/2 recovered above the upper control limit for Di-n-octyl phthalate at 28.5%D and Pentachlorophenol at 25.3%D. The continuing calibration verification (CCV) associated with batch 500-181265/2 recovered above the upper control limit for Pentachlorophenol at 22.9%D.The samples associated with these CCV's were non-detects for the affected analytes; therefore, the data have been reported. DDSB-7-0-2-20130314-01 (680-88399-2), DDSB-7-11-13-20130314-01 (680-88399-3), DDSB-8-0-2-20130314-01 (680-88399-4), DDSB-8-8-11-20130314-01 (680-88399-5), DDSB-9-0-2-20130314-01 (680-88399-6), DDSB-9-10-12-20130314-01 (680-88399-7)

Samples DDSB-8-0-2-20130314-01 (680-88399-4)[5X] and DDSB-9-0-2-20130314-01 (680-88399-6)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the semivolatiles analyses.

All other quality control parameters were within the acceptance limits.

ORGANOCHLORINE PESTICIDES

Samples DDSB-7-0-2-20130314-01 (680-88399-2), DDSB-7-11-13-20130314-01 (680-88399-3), DDSB-8-0-2-20130314-01 (680-88399-4), DDSB-8-8-11-20130314-01 (680-88399-5), DDSB-9-0-2-20130314-01 (680-88399-6) and DDSB-9-10-12-20130314-01 (680-88399-7) were analyzed for organochlorine pesticides in accordance with EPA SW-846 Method 8081A. The samples were prepared on 03/18/2013 and analyzed on 03/20/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

The following samples were diluted due to the abundance of non-target analytes: DDSB-8-0-2-20130314-01 (680-88399-4), DDSB-9-0-2-20130314-01 (680-88399-6), DDSB-9-10-12-20130314-01 (680-88399-7). Elevated reporting limits (RLs) are provided.

TCX and/or DCB surrogate recovery for the following samples were outside control limits: DDSB-8-0-2-20130314-01 (680-88399-4), DDSB-9-0-2-20130314-01 (680-88399-6). Evidence of matrix interference is present; therefore, re-extraction and re-analysis was not performed.

Numerous matrix spike and matrix spike duplicate recoveries for batch 180211 were outside control limits due to sample matrix interferences which required sample dilution. The associated laboratory control sample (LCS) met acceptance criteria.DDSB-8-0-2-20130314-01 (680-88399-4)

The grand mean exception, as outlined in EPA Method 8000B, was applied to the continuing calibration verification (CCV) standard associated with batch 180355. This rule states that when one or more compounds in the CCV fail to meet acceptance criteria, the initial calibration (ICAL) may be used for quantitation if the average %D (the grand mean) of all the compounds in the CCV is less than or equal to 15%D. Compounds affected: Heptachlor, Toxaphene (peaks 4 and 5), and Chlordane (peaks 3 and 5).DDSB-7-0-2-20130314-01 (680-88399-2), DDSB-7-11-13-20130314-01 (680-88399-3), DDSB-8-0-2-20130314-01 (680-88399-4), DDSB-8-8-11-20130314-01 (680-88399-5), DDSB-9-0-2-20130314-01 (680-88399-6), DDSB-9-10-12-20130314-01 (680-88399-7)

Samples DDSB-8-0-2-20130314-01 (680-88399-4)[10X], DDSB-9-0-2-20130314-01 (680-88399-6)[10X] and DDSB-9-10-12-20130314-01 (680-88399-7)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Job ID: 680-88399-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

No other difficulties were encountered during the pesticides analyses.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples DDSB-7-0-2-20130314-01 (680-88399-2), DDSB-7-11-13-20130314-01 (680-88399-3), DDSB-8-0-2-20130314-01 (680-88399-4), DDSB-8-8-11-20130314-01 (680-88399-5), DDSB-9-0-2-20130314-01 (680-88399-6) and DDSB-9-10-12-20130314-01 (680-88399-7) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 03/18/2013 and analyzed on 03/20/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

No difficulties were encountered during the PCBs analyses.

All quality control parameters were within the acceptance limits.

ORGANOPHOSPHORUS PESTICIDES

Samples DDSB-7-0-2-20130314-01 (680-88399-2), DDSB-7-11-13-20130314-01 (680-88399-3), DDSB-8-0-2-20130314-01 (680-88399-4), DDSB-8-8-11-20130314-01 (680-88399-5), DDSB-9-0-2-20130314-01 (680-88399-6) and DDSB-9-10-12-20130314-01 (680-88399-7) were analyzed for organophosphorus pesticides in accordance with EPA SW-846 Method 8141A. The samples were prepared on 03/18/2013 and analyzed on 04/01/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

The grand mean exception, as outlined in EPA Method 8000B, was applied to the continuing calibration verification (CCV) standard associated with batch 640-100242 and 640-100288. This rule states that when one or more compounds in the CCV fail to meet acceptance criteria, the initial calibration (ICAL) may be used for quantitation if the average %D (the grand mean) of all the compounds in the CCV is less than or equal to 15 %D.

The one set of matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 640-100288 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. Sample 680-88399B2 was used for the MS/MSD.

No other difficulties were encountered during the pesticides analyses.

All other quality control parameters were within the acceptance limits.

TOTAL METALS (ICP)

Samples DDSB-7-0-2-20130314-01 (680-88399-2), DDSB-7-11-13-20130314-01 (680-88399-3), DDSB-8-0-2-20130314-01 (680-88399-4), DDSB-8-8-11-20130314-01 (680-88399-5), DDSB-9-0-2-20130314-01 (680-88399-6) and DDSB-9-10-12-20130314-01 (680-88399-7) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 03/20/2013 and 03/21/2013 and analyzed on 03/21/2013 and 03/22/2013.

The following samples were digested at a reduced sample weight due to a vigorous reaction with the hydrogen peroxide additon during initial digestion: DDSB-7-0-2-20130314-01 (680-88399-2), DDSB-8-0-2-20130314-01 (680-88399-4), DDSB-9-0-2-20130314-01 (680-88399-6).

Due to the high concentration of aluminum and iron, the matrix spike / matrix spike duplicate (MS/MSD) for batch 680-269986 be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-269986 were outside control limits for silver, calcium, potassium, magnesium, manganese, thallium, vanadium, barium, chromium, copper, lead, antimony, and zinc. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Job ID: 680-88399-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 680-269986 was outside control limits for alumium, barium, calcium, chromium, iron, lead, vanadium, and zinc. Non-homogeneity of the sample matrix is suspected.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples DDSB-7-0-2-20130314-01 (680-88399-2), DDSB-7-11-13-20130314-01 (680-88399-3), DDSB-8-0-2-20130314-01 (680-88399-4), DDSB-8-8-11-20130314-01 (680-88399-5), DDSB-9-0-2-20130314-01 (680-88399-6) and DDSB-9-10-12-20130314-01 (680-88399-7) were analyzed for total mercury in accordance with EPA SW-846 Method 7471A. The samples were prepared on 03/18/2013 and 03/21/2013 and analyzed on 03/20/2013 and 03/22/2013.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM

Samples DDSB-7-0-2-20130314-01 (680-88399-2), DDSB-7-11-13-20130314-01 (680-88399-3), DDSB-8-0-2-20130314-01 (680-88399-4), DDSB-8-8-11-20130314-01 (680-88399-5), DDSB-9-0-2-20130314-01 (680-88399-6) and DDSB-9-10-12-20130314-01 (680-88399-7) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 3060A/7196A. The samples were prepared on 03/18/2013 and analyzed on 03/20/2013.

To verify the absence of an interference, EPA Method 7196A requires the sample to be diluted until the post digestive spike (PDS) recovery is within 85-115%. For this reason, the following sample(s) was diluted: (680-88273-9 DU), SIA4BT5-08A (0-2') (680-88273-9). Elevated reporting limits (RLs) are provided.

The matrix spike (MS) recoveries for batch 269690 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other difficulties were encountered during the hexavalent chromium analyses.

All other quality control parameters were within the acceptance limits.

TOTAL CYANIDE

Samples DDSB-7-0-2-20130314-01 (680-88399-2), DDSB-7-11-13-20130314-01 (680-88399-3), DDSB-8-0-2-20130314-01 (680-88399-4), DDSB-8-8-11-20130314-01 (680-88399-5), DDSB-9-0-2-20130314-01 (680-88399-6) and DDSB-9-10-12-20130314-01 (680-88399-7) were analyzed for total and amenable cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared on 03/20/2013 and analyzed on 03/21/2013.

No difficulties were encountered during the cyanide analyses.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88399-1	TB-01-20130314-01	Water	03/14/13 00:00	03/15/13 15:38
680-88399-2	DDSB-7-0-2-20130314-01	Solid	03/14/13 15:34	03/15/13 15:38
680-88399-3	DDSB-7-11-13-20130314-01	Solid	03/14/13 15:55	03/15/13 15:38
680-88399-4	DDSB-8-0-2-20130314-01	Solid	03/14/13 16:20	03/15/13 15:38
680-88399-5	DDSB-8-8-11-20130314-01	Solid	03/14/13 16:40	03/15/13 15:38
680-88399-6	DDSB-9-0-2-20130314-01	Solid	03/14/13 17:15	03/15/13 15:38
680-88399-7	DDSB-9-10-12-20130314-01	Solid	03/14/13 17:40	03/15/13 15:38

Method Summary

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8081A	Organochlorine Pesticides (GC)	SW846	TAL CHI
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
8141A	Organophosphorous Pesticides (GC)	SW846	TAL TAL
6010B	Metals (ICP)	SW846	TAL SAV
7471A	Mercury (CVAA)	SW846	TAL SAV
7196A	Chromium, Hexavalent	SW846	TAL SAV
9012A	Cyanide, Total and/or Amenable	SW846	TAL SAV

Protocol References:

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
X	Surrogate is outside control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: TB-01-20130314-01
Date Collected: 03/14/13 00:00
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			03/19/13 13:00	1
Benzene	1.0	U	1.0	0.25	ug/L			03/19/13 13:00	1
Bromobenzene	1.0	U	1.0	0.16	ug/L			03/19/13 13:00	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/19/13 13:00	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			03/19/13 13:00	1
Bromoform	1.0	U	1.0	0.50	ug/L			03/19/13 13:00	1
Bromomethane	1.0	U	1.0	0.80	ug/L			03/19/13 13:00	1
2-Butanone	10	U	10	1.0	ug/L			03/19/13 13:00	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			03/19/13 13:00	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			03/19/13 13:00	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			03/19/13 13:00	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			03/19/13 13:00	1
Chloroethane	1.0	U	1.0	1.0	ug/L			03/19/13 13:00	1
Chloroform	1.0	U	1.0	0.14	ug/L			03/19/13 13:00	1
Chloromethane	1.0	U	1.0	0.33	ug/L			03/19/13 13:00	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/L			03/19/13 13:00	1
4-Chlorotoluene	1.0	U	1.0	0.27	ug/L			03/19/13 13:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			03/19/13 13:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			03/19/13 13:00	1
Cyclohexane	1.0	U	1.0	0.25	ug/L			03/19/13 13:00	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			03/19/13 13:00	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			03/19/13 13:00	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			03/19/13 13:00	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			03/19/13 13:00	1
1,3-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			03/19/13 13:00	1
1,4-Dichlorobenzene	1.0	U	1.0	0.28	ug/L			03/19/13 13:00	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			03/19/13 13:00	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			03/19/13 13:00	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			03/19/13 13:00	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			03/19/13 13:00	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			03/19/13 13:00	1
1,3-Dichloropropane	1.0	U	1.0	0.13	ug/L			03/19/13 13:00	1
2,2-Dichloropropane	1.0	U	1.0	0.12	ug/L			03/19/13 13:00	1
1,1-Dichloropropene	1.0	U	1.0	0.25	ug/L			03/19/13 13:00	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/19/13 13:00	1
Hexachlorobutadiene	1.0	U	1.0	0.40	ug/L			03/19/13 13:00	1
2-Hexanone	10	U	10	1.0	ug/L			03/19/13 13:00	1
Isopropylbenzene	1.0	U	1.0	0.10	ug/L			03/19/13 13:00	1
Methyl acetate	1.0	U	1.0	0.19	ug/L			03/19/13 13:00	1
Methylcyclohexane	1.0	U	1.0	0.10	ug/L			03/19/13 13:00	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			03/19/13 13:00	1
4-Methyl-2-pentanone	10	U	10	1.0	ug/L			03/19/13 13:00	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			03/19/13 13:00	1
Naphthalene	5.0	U	5.0	1.0	ug/L			03/19/13 13:00	1
n-Butylbenzene	1.0	U	1.0	0.10	ug/L			03/19/13 13:00	1
N-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/19/13 13:00	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/19/13 13:00	1
sec-Butylbenzene	1.0	U	1.0	0.16	ug/L			03/19/13 13:00	1
Styrene	1.0	U	1.0	0.11	ug/L			03/19/13 13:00	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: TB-01-20130314-01
Date Collected: 03/14/13 00:00
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	1.0	0.12	ug/L			03/19/13 13:00	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			03/19/13 13:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			03/19/13 13:00	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/19/13 13:00	1
Toluene	1.0	U	1.0	0.33	ug/L			03/19/13 13:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			03/19/13 13:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			03/19/13 13:00	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			03/19/13 13:00	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.25	ug/L			03/19/13 13:00	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			03/19/13 13:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			03/19/13 13:00	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			03/19/13 13:00	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			03/19/13 13:00	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			03/19/13 13:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			03/19/13 13:00	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			03/19/13 13:00	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			03/19/13 13:00	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			03/19/13 13:00	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			03/19/13 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*70 - 130*		*03/19/13 13:00*	*1*
Dibromofluoromethane	*108*		*70 - 130*		*03/19/13 13:00*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*03/19/13 13:00*	*1*

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-7-0-2-20130314-01
Date Collected: 03/14/13 15:34
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-2
Matrix: Solid
Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.6	U	2.6	0.57	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Benzene	**0.32**		0.26	0.038	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Bromobenzene	0.26	U	0.26	0.088	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Bromochloromethane	0.26	U	0.26	0.17	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Bromodichloromethane	0.26	U	0.26	0.050	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Bromoform	0.26	U	0.26	0.078	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Bromomethane	0.26	U	0.26	0.078	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
2-Butanone	1.3	U	1.3	0.12	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Carbon disulfide	0.26	U	0.26	0.057	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Carbon tetrachloride	0.26	U	0.26	0.043	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Chlorobenzene	0.26	U	0.26	0.050	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Chlorodibromomethane	0.26	U	0.26	0.088	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Chloroethane	0.26	U	0.26	0.14	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Chloroform	0.26	U	0.26	0.057	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Chloromethane	0.26	U	0.26	0.052	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
2-Chlorotoluene	0.26	U	0.26	0.10	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
4-Chlorotoluene	0.26	U	0.26	0.088	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
cis-1,2-Dichloroethene	0.26	U	0.26	0.073	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
cis-1,3-Dichloropropene	0.26	U	0.26	0.043	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Cyclohexane	**0.51**	**J**	0.52	0.067	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
1,2-Dibromo-3-Chloropropane	0.52	U	0.52	0.23	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
1,2-Dibromoethane	0.26	U	0.26	0.078	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Dibromomethane	0.26	U	0.26	0.088	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
1,2-Dichlorobenzene	0.26	U	0.26	0.067	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
1,3-Dichlorobenzene	0.26	U	0.26	0.083	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
1,4-Dichlorobenzene	0.26	U	0.26	0.038	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Dichlorodifluoromethane	0.26	U	0.26	0.049	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
1,1-Dichloroethane	0.26	U	0.26	0.057	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
1,2-Dichloroethane	0.26	U	0.26	0.057	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
1,1-Dichloroethene	0.26	U	0.26	0.078	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
1,2-Dichloropropane	0.26	U	0.26	0.045	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
2,2-Dichloropropane	0.26	U	0.26	0.057	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
1,3-Dichloropropane	0.26	U	0.26	0.093	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
1,1-Dichloropropene	0.26	U	0.26	0.049	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Ethylbenzene	**0.11**	**J**	0.26	0.067	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Hexachlorobutadiene	0.26	U	0.26	0.16	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
2-Hexanone	1.3	U	1.3	0.17	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Isopropylbenzene	0.26	U	0.26	0.099	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Methyl acetate	0.52	U	0.52	0.26	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Methylcyclohexane	**1.1**		0.52	0.045	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Methylene Chloride	0.26	U	0.26	0.051	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
4-Methyl-2-pentanone	1.3	U	1.3	0.22	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Methyl tert-butyl ether	0.52	U	0.52	0.052	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Naphthalene	**0.55**	**B**	0.26	0.062	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
n-Butylbenzene	0.26	U	0.26	0.12	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
N-Propylbenzene	0.26	U	0.26	0.14	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
p-Isopropyltoluene	0.26	U	0.26	0.11	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
sec-Butylbenzene	0.26	U	0.26	0.11	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Styrene	0.26	U	0.26	0.048	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40

Client Sample ID: DDSB-7-0-2-20130314-01
Date Collected: 03/14/13 15:34
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-2
Matrix: Solid
Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.26	U	0.26	0.093	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
1,1,2,2-Tetrachloroethane	0.26	U	0.26	0.083	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
1,1,1,2-Tetrachloroethane	0.26	U	0.26	0.12	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Tetrachloroethene	0.26	U	0.26	0.099	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Toluene	**0.99**		0.26	0.044	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
trans-1,2-Dichloroethene	0.26	U	0.26	0.033	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
trans-1,3-Dichloropropene	0.26	U	0.26	0.045	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
1,2,4-Trichlorobenzene	0.26	U	0.26	0.046	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
1,2,3-Trichlorobenzene	0.26	U	0.26	0.083	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
1,1,1-Trichloroethane	0.26	U	0.26	0.031	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
1,1,2-Trichloroethane	0.26	U	0.26	0.067	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Trichloroethene	0.26	U	0.26	0.067	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Trichlorofluoromethane	0.26	U	0.26	0.062	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
1,2,3-Trichloropropane	0.26	U	0.26	0.12	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
1,1,2-Trichloro-1,2,2-trifluoroethane	0.26	U	0.26	0.067	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
1,2,4-Trimethylbenzene	**0.25**	**J**	0.26	0.073	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
1,3,5-Trimethylbenzene	0.26	U	0.26	0.088	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Vinyl chloride	0.26	U	0.26	0.078	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40
Xylenes, Total	**1.1**		0.52	0.057	mg/Kg	☼	03/21/13 14:22	03/23/13 04:16	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*83*		*65 - 130*	*03/21/13 14:22*	*03/23/13 04:16*	*40*
Dibromofluoromethane	*87*		*65 - 130*	*03/21/13 14:22*	*03/23/13 04:16*	*40*
Toluene-d8 (Surr)	*88*		*65 - 130*	*03/21/13 14:22*	*03/23/13 04:16*	*40*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.042**		0.041	0.012	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Acenaphthylene	**0.044**		0.041	0.0095	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Acetophenone	0.41	U	0.41	0.075	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
2-Acetylaminofluorene	0.21	U	0.21	0.038	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
alpha,alpha-Dimethyl phenethylamine	1.7	U	1.7	0.49	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
4-Aminobiphenyl	0.21	U	0.21	0.084	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Aniline	0.83	U	0.83	0.37	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Anthracene	**0.097**		0.041	0.0097	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Aramite	0.21	U	0.21	0.041	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Benzenethiol	0.83	U	0.83	0.41	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Benzidine	0.83	U *	0.83	0.41	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Benzo[a]anthracene	**0.29**		0.041	0.0086	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Benzo[a]pyrene	**0.24**		0.041	0.0075	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Benzo[b]fluoranthene	**0.29**		0.041	0.0080	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Benzo[g,h,i]perylene	**0.18**		0.041	0.014	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Benzoic acid	**0.57**	**J ***	2.1	0.57	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Benzo[k]fluoranthene	**0.19**		0.041	0.0098	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Benzyl alcohol	0.41	U	0.41	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Bis(2-chloroethoxy)methane	0.21	U	0.21	0.046	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Bis(2-chloroethyl)ether	0.21	U	0.21	0.061	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Bis(2-ethylhexyl) phthalate	0.21	U	0.21	0.055	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
4-Bromophenyl phenyl ether	0.21	U	0.21	0.046	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Butyl benzyl phthalate	0.21	U	0.21	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1

Client Sample ID: DDSB-7-0-2-20130314-01
Date Collected: 03/14/13 15:34
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-2
Matrix: Solid
Percent Solids: 79.7

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	0.41	U	0.41	0.095	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
4-Chloroaniline	0.83	U	0.83	0.13	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
4-Chloro-3-methylphenol	0.41	U	0.41	0.20	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
2-Chloronaphthalene	0.21	U	0.21	0.046	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
2-Chlorophenol	0.21	U	0.21	0.059	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
4-Chlorophenyl phenyl ether	0.21	U	0.21	0.065	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Chrysene	**0.34**		0.041	0.0093	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Diallate	0.21	U	0.21	0.041	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Dibenz(a,h)anthracene	**0.054**		0.041	0.012	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Dibenz[a,j]acridine	0.21	U	0.21	0.023	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Dibenzofuran	**0.55**		0.21	0.050	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
1,2-Dichlorobenzene	0.21	U	0.21	0.045	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
1,3-Dichlorobenzene	0.21	U	0.21	0.043	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
1,4-Dichlorobenzene	0.21	U	0.21	0.043	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
3,3'-Dichlorobenzidine	0.21	U	0.21	0.034	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
2,4-Dichlorophenol	0.41	U	0.41	0.13	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
2,6-Dichlorophenol	0.21	U	0.21	0.059	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Diethyl phthalate	0.21	U	0.21	0.069	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Diethylstilbestrol	0.83	U	0.83	0.10	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Dimethoate	0.41	U	0.41	0.093	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
7,12-Dimethylbenz(a)anthracene	0.21	U	0.21	0.050	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
3,3'-Dimethylbenzidine	0.83	U	0.83	0.21	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
2,4-Dimethylphenol	0.41	U	0.41	0.13	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Dimethyl phthalate	0.21	U	0.21	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Di-n-butyl phthalate	0.21	U	0.21	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
1,4-Dinitrobenzene	0.21	U	0.21	0.032	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
4,6-Dinitro-2-methylphenol	0.41	U	0.41	0.10	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
2,4-Dinitrophenol	0.83	U	0.83	0.21	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
2,4-Dinitrotoluene	0.21	U	0.21	0.063	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
2,6-Dinitrotoluene	0.21	U	0.21	0.049	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Di-n-octyl phthalate	0.21	U	0.21	0.084	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Dinoseb	0.41	U *	0.41	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
1,4-Dioxane	0.83	U	0.83	0.28	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Diphenylamine	0.21	U	0.21	0.047	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
1,2-Diphenylhydrazine	0.21	U	0.21	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Disulfoton	0.41	U	0.41	0.062	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Ethyl 4,4'-Dichlorobenzilate	0.21	U	0.21	0.026	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Ethyl methanesulfonate	0.21	U	0.21	0.023	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Ethyl Parathion	0.41	U	0.41	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Famphur	0.41	U	0.41	0.067	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Fluoranthene	**0.44**		0.041	0.017	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Fluorene	0.041	U	0.041	0.0094	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Hexachlorobenzene	0.083	U	0.083	0.0081	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Hexachlorobutadiene	0.21	U	0.21	0.054	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Hexachlorocyclopentadiene	0.83	U	0.83	0.19	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Hexachloroethane	0.21	U	0.21	0.044	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Hexachlorophene	4.1	U	4.1	1.5	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Hexachloropropene	0.41	U	0.41	0.16	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Indeno[1,2,3-cd]pyrene	**0.13**		0.041	0.014	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1

Client Sample ID: DDSB-7-0-2-20130314-01
Date Collected: 03/14/13 15:34
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-2
Matrix: Solid
Percent Solids: 79.7

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	0.21	U	0.21	0.046	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Isosafrole	0.21	U	0.21	0.022	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Kepone	0.83	U	0.83	0.41	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Malathion	0.41	U	0.41	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
m-Dinitrobenzene	0.21	U	0.21	0.039	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Methapyrilene	1.7	U	1.7	0.21	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
3-Methylcholanthrene	0.21	U	0.21	0.017	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Methyl methanesulfonate	0.21	U	0.21	0.034	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
2-Methylnaphthalene	**1.7**		0.21	0.054	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Methyl parathion	0.41	U	0.41	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
2-Methylphenol	0.21	U	0.21	0.055	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
3 & 4 Methylphenol	0.21	U	0.21	0.078	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Naphthalene	**0.97**		0.041	0.0079	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
1,4-Naphthoquinone	0.83	U	0.83	0.41	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
1-Naphthylamine	0.21	U	0.21	0.032	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
2-Naphthylamine	0.21	U	0.21	0.056	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
2-Nitroaniline	0.21	U	0.21	0.074	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
3-Nitroaniline	0.41	U	0.41	0.080	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
4-Nitroaniline	0.41	U	0.41	0.085	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Nitrobenzene	0.041	U	0.041	0.013	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
5-Nitro-o-toluidine	0.21	U	0.21	0.039	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
2-Nitrophenol	0.41	U	0.41	0.065	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
4-Nitrophenol	0.83	U	0.83	0.22	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
4-Nitroquinoline-1-oxide	0.83	U	0.83	0.39	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
N-Nitrosodiethylamine	0.41	U	0.41	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
N-Nitrosodimethylamine	0.83	U	0.83	0.45	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
N-Nitrosodi-n-butylamine	0.21	U	0.21	0.074	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
N-Nitrosodi-n-propylamine	0.21	U	0.21	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
N-Nitrosodiphenylamine	0.21	U	0.21	0.056	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
N-Nitrosomethylethylamine	0.83	U	0.83	0.34	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
N-Nitrosomorpholine	0.21	U	0.21	0.038	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
N-Nitrosopiperidine	0.41	U	0.41	0.038	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
N-Nitrosopyrrolidine	0.21	U	0.21	0.047	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
o,o',o''-Triethylphosphorothioate	0.41	U	0.41	0.063	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
o-Toluidine	0.21	U	0.21	0.040	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
2,2'-oxybis[1-chloropropane]	0.21	U	0.21	0.046	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
p-Dimethylamino azobenzene	0.21	U	0.21	0.022	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Pentachlorobenzene	0.21	U	0.21	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Pentachloronitrobenzene	0.21	U	0.21	0.029	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Pentachlorophenol	0.83	U	0.83	0.21	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Phenacetin	0.21	U	0.21	0.043	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Phenanthrene	**0.92**		0.041	0.017	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Phenol	0.21	U	0.21	0.065	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Phorate	0.41	U	0.41	0.087	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
2-Picoline	0.41	U	0.41	0.16	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
p-Phenylene diamine	1.7	U	1.7	0.087	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Pronamide	0.21	U	0.21	0.033	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Pyrene	**0.43**		0.041	0.015	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Pyridine	0.83	U	0.83	0.49	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1

Client Sample ID: DDSB-7-0-2-20130314-01
Date Collected: 03/14/13 15:34
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-2
Matrix: Solid
Percent Solids: 79.7

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole	0.21	U	0.21	0.020	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Sulfotepp	0.41	U	0.41	0.082	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
sym-Trinitrobenzene	0.83	U	0.83	0.42	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
1,2,4,5-Tetrachlorobenzene	0.21	U	0.21	0.049	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
2,3,4,6-Tetrachlorophenol	0.21	U	0.21	0.056	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
Thionazin	0.41	U	0.41	0.092	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
1,2,4-Trichlorobenzene	0.21	U	0.21	0.047	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
2,4,5-Trichlorophenol	0.41	U	0.41	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1
2,4,6-Trichlorophenol	0.41	U	0.41	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*30 - 119*	*03/18/13 16:41*	*03/25/13 18:14*	*1*
2-Fluorophenol	*57*		*30 - 110*	*03/18/13 16:41*	*03/25/13 18:14*	*1*
Nitrobenzene-d5	*56*		*30 - 115*	*03/18/13 16:41*	*03/25/13 18:14*	*1*
Phenol-d5	*61*		*31 - 110*	*03/18/13 16:41*	*03/25/13 18:14*	*1*
Terphenyl-d14	*70*		*36 - 134*	*03/18/13 16:41*	*03/25/13 18:14*	*1*
2,4,6-Tribromophenol	*69*		*35 - 137*	*03/18/13 16:41*	*03/25/13 18:14*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0021	U	0.0021	0.00084	mg/Kg	☼	03/18/13 18:27	03/20/13 20:58	1
alpha-BHC	0.0021	U	0.0021	0.00051	mg/Kg	☼	03/18/13 18:27	03/20/13 20:58	1
beta-BHC	0.0021	U	0.0021	0.00063	mg/Kg	☼	03/18/13 18:27	03/20/13 20:58	1
Chlordane (technical)	0.0081	U	0.0081	0.0039	mg/Kg	☼	03/18/13 18:27	03/20/13 20:58	1
4,4'-DDD	0.0021	U	0.0021	0.00040	mg/Kg	☼	03/18/13 18:27	03/20/13 20:58	1
4,4'-DDE	0.0021	U	0.0021	0.00034	mg/Kg	☼	03/18/13 18:27	03/20/13 20:58	1
4,4'-DDT	0.0021	U	0.0021	0.0011	mg/Kg	☼	03/18/13 18:27	03/20/13 20:58	1
delta-BHC	0.0021	U	0.0021	0.00064	mg/Kg	☼	03/18/13 18:27	03/20/13 20:58	1
Dieldrin	0.0021	U	0.0021	0.00028	mg/Kg	☼	03/18/13 18:27	03/20/13 20:58	1
Endosulfan I	0.0021	U	0.0021	0.00089	mg/Kg	☼	03/18/13 18:27	03/20/13 20:58	1
Endosulfan II	0.0021	U	0.0021	0.00033	mg/Kg	☼	03/18/13 18:27	03/20/13 20:58	1
Endosulfan sulfate	0.0021	U	0.0021	0.00037	mg/Kg	☼	03/18/13 18:27	03/20/13 20:58	1
Endrin	0.0021	U	0.0021	0.00028	mg/Kg	☼	03/18/13 18:27	03/20/13 20:58	1
Endrin aldehyde	0.0021	U	0.0021	0.00034	mg/Kg	☼	03/18/13 18:27	03/20/13 20:58	1
Endrin ketone	0.0021	U	0.0021	0.00046	mg/Kg	☼	03/18/13 18:27	03/20/13 20:58	1
gamma-BHC (Lindane)	0.0021	U	0.0021	0.00044	mg/Kg	☼	03/18/13 18:27	03/20/13 20:58	1
Heptachlor	0.0021	U	0.0021	0.00085	mg/Kg	☼	03/18/13 18:27	03/20/13 20:58	1
Heptachlor epoxide	0.0021	U	0.0021	0.00072	mg/Kg	☼	03/18/13 18:27	03/20/13 20:58	1
Isodrin	0.0021	U	0.0021	0.00094	mg/Kg	☼	03/18/13 18:27	03/20/13 20:58	1
Methoxychlor	0.010	U	0.010	0.00039	mg/Kg	☼	03/18/13 18:27	03/20/13 20:58	1
Toxaphene	0.020	U	0.020	0.0085	mg/Kg	☼	03/18/13 18:27	03/20/13 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*56 - 128*	*03/18/13 18:27*	*03/20/13 20:58*	*1*
Tetrachloro-m-xylene	*55*		*45 - 112*	*03/18/13 18:27*	*03/20/13 20:58*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.020	U	0.020	0.0072	mg/Kg	☼	03/18/13 18:27	03/20/13 16:54	1
PCB-1221	0.020	U	0.020	0.0089	mg/Kg	☼	03/18/13 18:27	03/20/13 16:54	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-7-0-2-20130314-01
Date Collected: 03/14/13 15:34
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-2
Matrix: Solid
Percent Solids: 79.7

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	0.020	U	0.020	0.0088	mg/Kg	☼	03/18/13 18:27	03/20/13 16:54	1
PCB-1242	0.020	U	0.020	0.0066	mg/Kg	☼	03/18/13 18:27	03/20/13 16:54	1
PCB-1248	0.020	U	0.020	0.0080	mg/Kg	☼	03/18/13 18:27	03/20/13 16:54	1
PCB-1254	0.020	U	0.020	0.0044	mg/Kg	☼	03/18/13 18:27	03/20/13 16:54	1
PCB-1260	0.020	U	0.020	0.0099	mg/Kg	☼	03/18/13 18:27	03/20/13 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*50 - 116*	*03/18/13 18:27*	*03/20/13 16:54*	*1*
DCB Decachlorobiphenyl	*101*		*48 - 142*	*03/18/13 18:27*	*03/20/13 16:54*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.081	U	0.081	0.0036	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Azinphos-methyl	0.081	U	0.081	0.018	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Bolstar	0.041	U	0.041	0.0058	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Carbophenthion	0.081	U	0.081	0.0065	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Chlorpyrifos	0.041	U	0.041	0.0084	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Chlorpyrifos-methyl	0.041	U	0.041	0.015	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Coumaphos	0.41	U	0.41	0.027	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Demeton-O	0.10	U	0.10	0.0032	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Demeton-S	0.10	U	0.10	0.0069	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Demeton, Total	0.10	U	0.10	0.0095	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Diazinon	0.041	U	0.041	0.0070	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Dichlofenthion	0.041	U	0.041	0.0052	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Dichlorvos	0.081	U	0.081	0.0079	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Dimethoate	0.081	U	0.081	0.011	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Disulfoton	0.081	U	0.081	0.020	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
EPN	0.041	U	0.041	0.0055	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Ethion	0.021	U	0.021	0.0065	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Ethoprop	0.021	U	0.021	0.0052	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Ethyl Parathion	0.041	U	0.041	0.0068	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Famphur	0.081	U	0.081	0.010	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Fensulfothion	0.41	U	0.41	0.015	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Fenthion	0.041	U	0.041	0.0058	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Malathion	0.041	U	0.041	0.010	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Merphos	0.041	U	0.041	0.014	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Methyl parathion	0.021	U	0.021	0.0067	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Mevinphos	0.081	U	0.081	0.0057	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Monochrotophos	0.41	U	0.41	0.057	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Naled	0.41	U	0.41	0.027	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Phorate	0.041	U	0.041	0.0067	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Ronnel	0.041	U	0.041	0.0052	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Simazine	0.081	U	0.081	0.0039	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Stirophos	0.041	U	0.041	0.0079	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Sulfotepp	0.021	U	0.021	0.011	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Terbufos	0.021	U	0.021	0.020	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Thionazin	0.041	U	0.041	0.012	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Tokuthion	0.041	U	0.041	0.0067	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1
Trichloronate	0.41	U	0.41	0.0094	mg/Kg	☼	03/18/13 14:54	04/01/13 11:34	1

Client Sample ID: DDSB-7-0-2-20130314-01
Date Collected: 03/14/13 15:34
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-2
Matrix: Solid
Percent Solids: 79.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate (TPP)	*81*		*35 - 134*	*03/18/13 14:54*	*04/01/13 11:34*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7400**		48	24	mg/Kg	☼	03/21/13 11:26	03/22/13 23:18	1
Antimony	4.8	U	4.8	1.3	mg/Kg	☼	03/21/13 11:26	03/22/13 23:18	1
Arsenic	**14**		4.8	1.4	mg/Kg	☼	03/21/13 11:26	03/22/13 23:18	1
Barium	**240**		2.4	0.72	mg/Kg	☼	03/21/13 11:26	03/22/13 23:18	1
Beryllium	**0.86**	**J**	0.97	0.048	mg/Kg	☼	03/21/13 11:26	03/22/13 23:18	1
Cadmium	1.2	U	1.2	0.24	mg/Kg	☼	03/21/13 11:26	03/22/13 23:18	1
Calcium	**4600**		120	48	mg/Kg	☼	03/21/13 11:26	03/22/13 23:18	1
Chromium	**10**		2.4	1.2	mg/Kg	☼	03/21/13 11:26	03/22/13 23:18	1
Cobalt	**5.8**		2.4	0.29	mg/Kg	☼	03/21/13 11:26	03/22/13 23:18	1
Copper	**40**		6.0	2.7	mg/Kg	☼	03/21/13 11:26	03/22/13 23:18	1
Iron	**15000**		48	17	mg/Kg	☼	03/21/13 11:26	03/22/13 23:18	1
Lead	**29**		2.4	1.3	mg/Kg	☼	03/21/13 11:26	03/22/13 23:18	1
Magnesium	**550**		120	5.8	mg/Kg	☼	03/21/13 11:26	03/22/13 23:18	1
Manganese	**120**		2.4	0.72	mg/Kg	☼	03/21/13 11:26	03/22/13 23:18	1
Nickel	**12**		9.7	0.75	mg/Kg	☼	03/21/13 11:26	03/22/13 23:18	1
Potassium	**370**		240	19	mg/Kg	☼	03/21/13 11:26	03/22/13 23:18	1
Selenium	6.0	U	6.0	2.4	mg/Kg	☼	03/21/13 11:26	03/22/13 23:18	1
Silver	2.4	U	2.4	0.23	mg/Kg	☼	03/21/13 11:26	03/22/13 23:18	1
Sodium	480	U	480	200	mg/Kg	☼	03/21/13 11:26	03/22/13 23:18	1
Thallium	6.0	U	6.0	2.4	mg/Kg	☼	03/21/13 11:26	03/22/13 23:18	1
Vanadium	**26**		2.4	0.58	mg/Kg	☼	03/21/13 11:26	03/22/13 23:18	1
Zinc	**69**		4.8	2.9	mg/Kg	☼	03/21/13 11:26	03/22/13 23:18	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**		0.021	0.0087	mg/Kg	☼	03/18/13 11:25	03/20/13 19:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	1.2	U	1.2	0.37	mg/Kg	☼	03/18/13 10:55	03/20/13 12:23	1
Cyanide, Total	**0.87**		0.63	0.26	mg/Kg	☼	03/20/13 10:30	03/21/13 09:15	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-7-11-13-20130314-01
Date Collected: 03/14/13 15:55
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-3
Matrix: Solid
Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.050	U	0.050	0.011	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Benzene	0.0050	U	0.0050	0.00072	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Bromobenzene	0.0050	U	0.0050	0.0017	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Bromochloromethane	0.0050	U	0.0050	0.0033	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Bromodichloromethane	0.0050	U	0.0050	0.00096	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Bromoform	0.0050	U	0.0050	0.0015	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Bromomethane	0.0050	U	0.0050	0.0015	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
2-Butanone	0.025	U	0.025	0.0024	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Carbon disulfide	0.0050	U	0.0050	0.0011	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Carbon tetrachloride	0.0050	U	0.0050	0.00082	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Chlorobenzene	0.0050	U	0.0050	0.00095	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Chlorodibromomethane	0.0050	U	0.0050	0.0017	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Chloroethane	0.0050	U	0.0050	0.0027	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Chloroform	0.0050	U	0.0050	0.0011	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Chloromethane	0.0050	U	0.0050	0.00099	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
2-Chlorotoluene	0.0050	U	0.0050	0.0020	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
4-Chlorotoluene	0.0050	U	0.0050	0.0017	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
cis-1,2-Dichloroethene	0.0050	U	0.0050	0.0014	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
cis-1,3-Dichloropropene	0.0050	U	0.0050	0.00082	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Cyclohexane	0.0099	U	0.0099	0.0013	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
1,2-Dibromo-3-Chloropropane	0.0099	U	0.0099	0.0044	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
1,2-Dibromoethane	0.0050	U	0.0050	0.0015	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Dibromomethane	0.0050	U	0.0050	0.0017	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
1,2-Dichlorobenzene	0.0050	U	0.0050	0.0013	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
1,3-Dichlorobenzene	0.0050	U	0.0050	0.0016	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
1,4-Dichlorobenzene	0.0050	U	0.0050	0.00073	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Dichlorodifluoromethane	0.0050	U	0.0050	0.00093	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
1,1-Dichloroethane	0.0050	U	0.0050	0.0011	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
1,2-Dichloroethane	0.0050	U	0.0050	0.0011	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
1,1-Dichloroethene	0.0050	U	0.0050	0.0015	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
1,2-Dichloropropane	0.0050	U	0.0050	0.00085	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
2,2-Dichloropropane	0.0050	U	0.0050	0.0011	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
1,3-Dichloropropane	0.0050	U	0.0050	0.0018	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
1,1-Dichloropropene	0.0050	U	0.0050	0.00094	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Ethylbenzene	0.0050	U	0.0050	0.0013	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Hexachlorobutadiene	0.0050	U	0.0050	0.0031	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
2-Hexanone	0.025	U	0.025	0.0033	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Isopropylbenzene	0.0050	U	0.0050	0.0019	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Methyl acetate	0.0099	U	0.0099	0.0050	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Methylcyclohexane	0.0099	U	0.0099	0.00085	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Methylene Chloride	0.0050	U	0.0050	0.00097	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
4-Methyl-2-pentanone	0.025	U	0.025	0.0042	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Methyl tert-butyl ether	0.0099	U	0.0099	0.00099	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Naphthalene	0.0050	U	0.0050	0.0012	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
n-Butylbenzene	0.0050	U	0.0050	0.0024	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
N-Propylbenzene	0.0050	U	0.0050	0.0027	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
p-Isopropyltoluene	0.0050	U	0.0050	0.0022	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
sec-Butylbenzene	0.0050	U	0.0050	0.0021	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Styrene	0.0050	U	0.0050	0.00092	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1

Client Sample ID: DDSB-7-11-13-20130314-01
Date Collected: 03/14/13 15:55
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-3
Matrix: Solid
Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.0050	U	0.0050	0.0018	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
1,1,2,2-Tetrachloroethane	0.0050	U	0.0050	0.0016	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
1,1,1,2-Tetrachloroethane	0.0050	U	0.0050	0.0024	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Tetrachloroethene	0.0050	U	0.0050	0.0019	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Toluene	0.0050	U	0.0050	0.00083	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
trans-1,2-Dichloroethene	0.0050	U	0.0050	0.00062	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
trans-1,3-Dichloropropene	0.0050	U	0.0050	0.00086	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
1,2,4-Trichlorobenzene	0.0050	U	0.0050	0.00088	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
1,2,3-Trichlorobenzene	0.0050	U	0.0050	0.0016	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
1,1,1-Trichloroethane	0.0050	U	0.0050	0.00058	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
1,1,2-Trichloroethane	0.0050	U	0.0050	0.0013	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Trichloroethene	0.0050	U	0.0050	0.0013	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Trichlorofluoromethane	0.0050	U	0.0050	0.0012	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
1,2,3-Trichloropropane	0.0050	U	0.0050	0.0024	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0050	U	0.0050	0.0013	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
1,2,4-Trimethylbenzene	0.0050	U	0.0050	0.0014	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
1,3,5-Trimethylbenzene	0.0050	U	0.0050	0.0017	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Vinyl chloride	0.0050	U	0.0050	0.0015	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1
Xylenes, Total	0.0099	U	0.0099	0.0011	mg/Kg	☼	03/21/13 14:22	03/23/13 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*65 - 130*	*03/21/13 14:22*	*03/23/13 22:02*	*1*
Dibromofluoromethane	*90*		*65 - 130*	*03/21/13 14:22*	*03/23/13 22:02*	*1*
Toluene-d8 (Surr)	*97*		*65 - 130*	*03/21/13 14:22*	*03/23/13 22:02*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.041	U	0.041	0.012	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Acenaphthylene	0.041	U	0.041	0.0095	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Acetophenone	0.41	U	0.41	0.075	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
2-Acetylaminofluorene	0.21	U	0.21	0.038	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
alpha,alpha-Dimethyl phenethylamine	1.7	U	1.7	0.49	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
4-Aminobiphenyl	0.21	U	0.21	0.084	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Aniline	0.83	U	0.83	0.37	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Anthracene	0.041	U	0.041	0.0097	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Aramite	0.21	U	0.21	0.041	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Benzenethiol	0.83	U	0.83	0.41	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Benzidine	0.83	U *	0.83	0.41	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Benzo[a]anthracene	0.041	U	0.041	0.0087	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Benzo[a]pyrene	0.041	U	0.041	0.0075	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Benzo[b]fluoranthene	0.041	U	0.041	0.0080	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Benzo[g,h,i]perylene	0.041	U	0.041	0.014	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Benzoic acid	2.1	U *	2.1	0.57	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Benzo[k]fluoranthene	0.041	U	0.041	0.0099	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Benzyl alcohol	0.41	U	0.41	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Bis(2-chloroethoxy)methane	0.21	U	0.21	0.046	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Bis(2-chloroethyl)ether	0.21	U	0.21	0.061	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Bis(2-ethylhexyl) phthalate	0.21	U	0.21	0.055	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
4-Bromophenyl phenyl ether	0.21	U	0.21	0.046	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Butyl benzyl phthalate	0.21	U	0.21	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-7-11-13-20130314-01
Date Collected: 03/14/13 15:55
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-3
Matrix: Solid
Percent Solids: 77.0

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	0.41	U	0.41	0.095	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
4-Chloroaniline	0.83	U	0.83	0.13	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
4-Chloro-3-methylphenol	0.41	U	0.41	0.20	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
2-Chloronaphthalene	0.21	U	0.21	0.047	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
2-Chlorophenol	0.21	U	0.21	0.059	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
4-Chlorophenyl phenyl ether	0.21	U	0.21	0.065	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Chrysene	0.041	U	0.041	0.0093	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Diallate	0.21	U	0.21	0.041	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Dibenz(a,h)anthracene	0.041	U	0.041	0.012	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Dibenz[a,j]acridine	0.21	U	0.21	0.023	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Dibenzofuran	0.21	U	0.21	0.050	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
1,2-Dichlorobenzene	0.21	U	0.21	0.045	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
1,3-Dichlorobenzene	0.21	U	0.21	0.043	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
1,4-Dichlorobenzene	0.21	U	0.21	0.043	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
3,3'-Dichlorobenzidine	0.21	U	0.21	0.034	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
2,4-Dichlorophenol	0.41	U	0.41	0.13	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
2,6-Dichlorophenol	0.21	U	0.21	0.059	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Diethyl phthalate	0.21	U	0.21	0.069	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Diethylstilbestrol	0.83	U	0.83	0.10	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Dimethoate	0.41	U	0.41	0.093	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
7,12-Dimethylbenz(a)anthracene	0.21	U	0.21	0.050	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
3,3'-Dimethylbenzidine	0.83	U	0.83	0.22	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
2,4-Dimethylphenol	0.41	U	0.41	0.13	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Dimethyl phthalate	0.21	U	0.21	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Di-n-butyl phthalate	0.21	U	0.21	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
1,4-Dinitrobenzene	0.21	U	0.21	0.032	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
4,6-Dinitro-2-methylphenol	0.41	U	0.41	0.10	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
2,4-Dinitrophenol	0.83	U	0.83	0.21	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
2,4-Dinitrotoluene	0.21	U	0.21	0.063	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
2,6-Dinitrotoluene	0.21	U	0.21	0.049	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Di-n-octyl phthalate	0.21	U	0.21	0.084	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Dinoseb	0.41	U *	0.41	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
1,4-Dioxane	0.83	U	0.83	0.28	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Diphenylamine	0.21	U	0.21	0.048	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
1,2-Diphenylhydrazine	0.21	U	0.21	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Disulfoton	0.41	U	0.41	0.062	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Ethyl 4,4'-Dichlorobenzilate	0.21	U	0.21	0.026	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Ethyl methanesulfonate	0.21	U	0.21	0.023	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Ethyl Parathion	0.41	U	0.41	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Famphur	0.41	U	0.41	0.067	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Fluoranthene	0.041	U	0.041	0.017	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Fluorene	0.041	U	0.041	0.0094	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Hexachlorobenzene	0.083	U	0.083	0.0081	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Hexachlorobutadiene	0.21	U	0.21	0.054	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Hexachlorocyclopentadiene	0.83	U	0.83	0.19	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Hexachloroethane	0.21	U	0.21	0.044	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Hexachlorophene	4.1	U	4.1	1.5	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Hexachloropropene	0.41	U	0.41	0.16	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Indeno[1,2,3-cd]pyrene	0.041	U	0.041	0.014	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-7-11-13-20130314-01
Date Collected: 03/14/13 15:55
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-3
Matrix: Solid
Percent Solids: 77.0

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	0.21	U	0.21	0.046	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Isosafrole	0.21	U	0.21	0.022	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Kepone	0.83	U	0.83	0.41	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Malathion	0.41	U	0.41	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
m-Dinitrobenzene	0.21	U	0.21	0.039	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Methapyrilene	1.7	U	1.7	0.22	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
3-Methylcholanthrene	0.21	U	0.21	0.017	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Methyl methanesulfonate	0.21	U	0.21	0.034	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
2-Methylnaphthalene	0.21	U	0.21	0.054	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Methyl parathion	0.41	U	0.41	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
2-Methylphenol	0.21	U	0.21	0.055	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
3 & 4 Methylphenol	0.21	U	0.21	0.078	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Naphthalene	0.041	U	0.041	0.0080	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
1,4-Naphthoquinone	0.83	U	0.83	0.41	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
1-Naphthylamine	0.21	U	0.21	0.032	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
2-Naphthylamine	0.21	U	0.21	0.056	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
2-Nitroaniline	0.21	U	0.21	0.074	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
3-Nitroaniline	0.41	U	0.41	0.080	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
4-Nitroaniline	0.41	U	0.41	0.085	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Nitrobenzene	0.041	U	0.041	0.013	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
5-Nitro-o-toluidine	0.21	U	0.21	0.039	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
2-Nitrophenol	0.41	U	0.41	0.065	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
4-Nitrophenol	0.83	U	0.83	0.22	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
4-Nitroquinoline-1-oxide	0.83	U	0.83	0.39	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
N-Nitrosodiethylamine	0.41	U	0.41	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
N-Nitrosodimethylamine	0.83	U	0.83	0.45	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
N-Nitrosodi-n-butylamine	0.21	U	0.21	0.074	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
N-Nitrosodi-n-propylamine	0.21	U	0.21	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
N-Nitrosodiphenylamine	0.21	U	0.21	0.056	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
N-Nitrosomethylethylamine	0.83	U	0.83	0.34	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
N-Nitrosomorpholine	0.21	U	0.21	0.038	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
N-Nitrosopiperidine	0.41	U	0.41	0.038	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
N-Nitrosopyrrolidine	0.21	U	0.21	0.047	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
o,o',o''-Triethylphosphorothioate	0.41	U	0.41	0.064	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
o-Toluidine	0.21	U	0.21	0.040	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
2,2'-oxybis[1-chloropropane]	0.21	U	0.21	0.046	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
p-Dimethylamino azobenzene	0.21	U	0.21	0.022	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Pentachlorobenzene	0.21	U	0.21	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Pentachloronitrobenzene	0.21	U	0.21	0.029	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Pentachlorophenol	0.83	U	0.83	0.21	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Phenacetin	0.21	U	0.21	0.043	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Phenanthrene	0.041	U	0.041	0.017	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Phenol	0.21	U	0.21	0.065	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Phorate	0.41	U	0.41	0.087	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
2-Picoline	0.41	U	0.41	0.16	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
p-Phenylene diamine	1.7	U	1.7	0.087	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Pronamide	0.21	U	0.21	0.033	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Pyrene	0.041	U	0.041	0.015	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Pyridine	0.83	U	0.83	0.49	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1

Client Sample ID: DDSB-7-11-13-20130314-01
Date Collected: 03/14/13 15:55
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-3
Matrix: Solid
Percent Solids: 77.0

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole	0.21	U	0.21	0.020	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Sulfotepp	0.41	U	0.41	0.083	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
sym-Trinitrobenzene	0.83	U	0.83	0.42	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
1,2,4,5-Tetrachlorobenzene	0.21	U	0.21	0.049	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
2,3,4,6-Tetrachlorophenol	0.21	U	0.21	0.056	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
Thionazin	0.41	U	0.41	0.092	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
1,2,4-Trichlorobenzene	0.21	U	0.21	0.047	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
2,4,5-Trichlorophenol	0.41	U	0.41	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1
2,4,6-Trichlorophenol	0.41	U	0.41	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*38*		*30 - 119*	*03/18/13 16:41*	*03/25/13 18:32*	*1*
2-Fluorophenol	*41*		*30 - 110*	*03/18/13 16:41*	*03/25/13 18:32*	*1*
Nitrobenzene-d5	*38*		*30 - 115*	*03/18/13 16:41*	*03/25/13 18:32*	*1*
Phenol-d5	*42*		*31 - 110*	*03/18/13 16:41*	*03/25/13 18:32*	*1*
Terphenyl-d14	*62*		*36 - 134*	*03/18/13 16:41*	*03/25/13 18:32*	*1*
2,4,6-Tribromophenol	*60*		*35 - 137*	*03/18/13 16:41*	*03/25/13 18:32*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0022	U	0.0022	0.00090	mg/Kg	☼	03/18/13 18:27	03/20/13 21:18	1
alpha-BHC	0.0022	U	0.0022	0.00055	mg/Kg	☼	03/18/13 18:27	03/20/13 21:18	1
beta-BHC	0.0022	U	0.0022	0.00067	mg/Kg	☼	03/18/13 18:27	03/20/13 21:18	1
Chlordane (technical)	0.0087	U	0.0087	0.0042	mg/Kg	☼	03/18/13 18:27	03/20/13 21:18	1
4,4'-DDD	0.0022	U	0.0022	0.00043	mg/Kg	☼	03/18/13 18:27	03/20/13 21:18	1
4,4'-DDE	0.0022	U	0.0022	0.00036	mg/Kg	☼	03/18/13 18:27	03/20/13 21:18	1
4,4'-DDT	0.0022	U	0.0022	0.0011	mg/Kg	☼	03/18/13 18:27	03/20/13 21:18	1
delta-BHC	0.0022	U	0.0022	0.00068	mg/Kg	☼	03/18/13 18:27	03/20/13 21:18	1
Dieldrin	0.0022	U	0.0022	0.00030	mg/Kg	☼	03/18/13 18:27	03/20/13 21:18	1
Endosulfan I	0.0022	U	0.0022	0.00095	mg/Kg	☼	03/18/13 18:27	03/20/13 21:18	1
Endosulfan II	0.0022	U	0.0022	0.00035	mg/Kg	☼	03/18/13 18:27	03/20/13 21:18	1
Endosulfan sulfate	0.0022	U	0.0022	0.00040	mg/Kg	☼	03/18/13 18:27	03/20/13 21:18	1
Endrin	0.0022	U	0.0022	0.00030	mg/Kg	☼	03/18/13 18:27	03/20/13 21:18	1
Endrin aldehyde	0.0022	U	0.0022	0.00036	mg/Kg	☼	03/18/13 18:27	03/20/13 21:18	1
Endrin ketone	0.0022	U	0.0022	0.00049	mg/Kg	☼	03/18/13 18:27	03/20/13 21:18	1
gamma-BHC (Lindane)	0.0022	U	0.0022	0.00047	mg/Kg	☼	03/18/13 18:27	03/20/13 21:18	1
Heptachlor	0.0022	U	0.0022	0.00091	mg/Kg	☼	03/18/13 18:27	03/20/13 21:18	1
Heptachlor epoxide	0.0022	U	0.0022	0.00077	mg/Kg	☼	03/18/13 18:27	03/20/13 21:18	1
Isodrin	0.0022	U	0.0022	0.0010	mg/Kg	☼	03/18/13 18:27	03/20/13 21:18	1
Methoxychlor	0.011	U	0.011	0.00042	mg/Kg	☼	03/18/13 18:27	03/20/13 21:18	1
Toxaphene	0.022	U	0.022	0.0091	mg/Kg	☼	03/18/13 18:27	03/20/13 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*77*		*56 - 128*	*03/18/13 18:27*	*03/20/13 21:18*	*1*
Tetrachloro-m-xylene	*58*		*45 - 112*	*03/18/13 18:27*	*03/20/13 21:18*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.022	U	0.022	0.0077	mg/Kg	☼	03/18/13 18:27	03/20/13 17:08	1
PCB-1221	0.022	U	0.022	0.0095	mg/Kg	☼	03/18/13 18:27	03/20/13 17:08	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-7-11-13-20130314-01
Date Collected: 03/14/13 15:55
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-3
Matrix: Solid
Percent Solids: 77.0

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	0.022	U	0.022	0.0094	mg/Kg	☼	03/18/13 18:27	03/20/13 17:08	1
PCB-1242	0.022	U	0.022	0.0071	mg/Kg	☼	03/18/13 18:27	03/20/13 17:08	1
PCB-1248	0.022	U	0.022	0.0085	mg/Kg	☼	03/18/13 18:27	03/20/13 17:08	1
PCB-1254	0.022	U	0.022	0.0047	mg/Kg	☼	03/18/13 18:27	03/20/13 17:08	1
PCB-1260	0.022	U	0.022	0.011	mg/Kg	☼	03/18/13 18:27	03/20/13 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*50 - 116*	*03/18/13 18:27*	*03/20/13 17:08*	*1*
DCB Decachlorobiphenyl	*89*		*48 - 142*	*03/18/13 18:27*	*03/20/13 17:08*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.083	U	0.083	0.0036	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Azinphos-methyl	0.083	U	0.083	0.019	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Bolstar	0.042	U	0.042	0.0059	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Carbophenthion	0.083	U	0.083	0.0067	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Chlorpyrifos	0.042	U	0.042	0.0086	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Chlorpyrifos-methyl	0.042	U	0.042	0.015	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Coumaphos	0.42	U	0.42	0.028	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Demeton-O	0.10	U	0.10	0.0033	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Demeton-S	0.10	U	0.10	0.0070	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Demeton, Total	0.10	U	0.10	0.0097	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Diazinon	0.042	U	0.042	0.0072	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Dichlofenthion	0.042	U	0.042	0.0053	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Dichlorvos	0.083	U	0.083	0.0081	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Dimethoate	0.083	U	0.083	0.011	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Disulfoton	0.083	U	0.083	0.020	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
EPN	0.042	U	0.042	0.0057	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Ethion	0.021	U	0.021	0.0067	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Ethoprop	0.021	U	0.021	0.0053	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Ethyl Parathion	0.042	U	0.042	0.0069	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Famphur	0.083	U	0.083	0.010	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Fensulfothion	0.42	U	0.42	0.015	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Fenthion	0.042	U	0.042	0.0059	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Malathion	0.042	U	0.042	0.010	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Merphos	0.042	U	0.042	0.014	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Methyl parathion	0.021	U	0.021	0.0068	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Mevinphos	0.083	U	0.083	0.0058	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Monochrotophos	0.42	U	0.42	0.058	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Naled	0.42	U	0.42	0.028	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Phorate	0.042	U	0.042	0.0068	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Ronnel	0.042	U	0.042	0.0053	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Simazine	0.083	U	0.083	0.0040	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Stirophos	0.042	U	0.042	0.0081	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Sulfotepp	0.021	U	0.021	0.011	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Terbufos	0.021	U	0.021	0.020	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Thionazin	0.042	U	0.042	0.013	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Tokuthion	0.042	U	0.042	0.0068	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1
Trichloronate	0.42	U	0.42	0.0096	mg/Kg	☼	03/18/13 14:54	04/01/13 12:33	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-7-11-13-20130314-01
Date Collected: 03/14/13 15:55
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-3
Matrix: Solid
Percent Solids: 77.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate (TPP)	65		35 - 134	03/18/13 14:54	04/01/13 12:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19000**		25	13	mg/Kg	☼	03/20/13 12:29	03/21/13 16:52	1
Antimony	2.5	U	2.5	0.67	mg/Kg	☼	03/20/13 12:29	03/21/13 16:52	1
Arsenic	**1.4**	**J**	2.5	0.75	mg/Kg	☼	03/20/13 12:29	03/21/13 16:52	1
Barium	**80**		1.3	0.38	mg/Kg	☼	03/20/13 12:29	03/21/13 16:52	1
Beryllium	**0.55**		0.51	0.025	mg/Kg	☼	03/20/13 12:29	03/21/13 16:52	1
Cadmium	0.64	U	0.64	0.13	mg/Kg	☼	03/20/13 12:29	03/21/13 16:52	1
Calcium	**450**		64	25	mg/Kg	☼	03/20/13 12:29	03/21/13 16:52	1
Chromium	**30**		1.3	0.64	mg/Kg	☼	03/20/13 12:29	03/21/13 16:52	1
Cobalt	**2.4**		1.3	0.15	mg/Kg	☼	03/20/13 12:29	03/21/13 16:52	1
Copper	**15**		3.2	1.4	mg/Kg	☼	03/20/13 12:29	03/21/13 16:52	1
Iron	**29000**		25	8.9	mg/Kg	☼	03/20/13 12:29	03/21/13 16:52	1
Lead	**13**		1.3	0.67	mg/Kg	☼	03/20/13 12:29	03/21/13 16:52	1
Magnesium	**1900**		64	3.1	mg/Kg	☼	03/20/13 12:29	03/21/13 16:52	1
Manganese	**72**		1.3	0.38	mg/Kg	☼	03/20/13 12:29	03/21/13 16:52	1
Nickel	**6.4**		5.1	0.39	mg/Kg	☼	03/20/13 12:29	03/21/13 16:52	1
Potassium	**2400**		130	10	mg/Kg	☼	03/20/13 12:29	03/21/13 16:52	1
Selenium	3.2	U	3.2	1.3	mg/Kg	☼	03/20/13 12:29	03/21/13 16:52	1
Silver	1.3	U	1.3	0.12	mg/Kg	☼	03/20/13 12:29	03/21/13 16:52	1
Sodium	250	U	250	100	mg/Kg	☼	03/20/13 12:29	03/21/13 16:52	1
Thallium	3.2	U	3.2	1.3	mg/Kg	☼	03/20/13 12:29	03/21/13 16:52	1
Vanadium	**65**		1.3	0.31	mg/Kg	☼	03/20/13 12:29	03/21/13 16:52	1
Zinc	**30**		2.5	1.5	mg/Kg	☼	03/20/13 12:29	03/21/13 16:52	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.010**	**J**	0.022	0.0092	mg/Kg	☼	03/18/13 11:25	03/20/13 19:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	1.2	U	1.2	0.37	mg/Kg	☼	03/18/13 10:55	03/20/13 12:23	1
Cyanide, Total	0.62	U	0.62	0.26	mg/Kg	☼	03/20/13 10:30	03/21/13 09:16	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-8-0-2-20130314-01
Date Collected: 03/14/13 16:20
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-4
Matrix: Solid
Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**1.3**	**J**	3.3	0.73	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Benzene	**2.0**		0.33	0.048	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Bromobenzene	0.33	U	0.33	0.11	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Bromochloromethane	0.33	U	0.33	0.22	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Bromodichloromethane	0.33	U	0.33	0.064	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Bromoform	0.33	U	0.33	0.099	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Bromomethane	0.33	U	0.33	0.099	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
2-Butanone	1.7	U	1.7	0.16	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Carbon disulfide	0.33	U	0.33	0.073	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Carbon tetrachloride	0.33	U	0.33	0.055	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Chlorobenzene	0.33	U	0.33	0.064	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Chlorodibromomethane	0.33	U	0.33	0.11	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Chloroethane	0.33	U	0.33	0.18	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Chloroform	0.33	U	0.33	0.073	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Chloromethane	**0.095**	**J**	0.33	0.066	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
2-Chlorotoluene	0.33	U	0.33	0.13	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
4-Chlorotoluene	0.33	U	0.33	0.11	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
cis-1,2-Dichloroethene	0.33	U	0.33	0.093	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
cis-1,3-Dichloropropene	0.33	U	0.33	0.055	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Cyclohexane	**4.6**		0.66	0.086	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
1,2-Dibromo-3-Chloropropane	0.66	U	0.66	0.29	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
1,2-Dibromoethane	0.33	U	0.33	0.099	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Dibromomethane	0.33	U	0.33	0.11	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
1,2-Dichlorobenzene	0.33	U	0.33	0.086	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
1,3-Dichlorobenzene	0.33	U	0.33	0.11	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
1,4-Dichlorobenzene	0.33	U	0.33	0.049	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Dichlorodifluoromethane	0.33	U	0.33	0.062	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
1,1-Dichloroethane	0.33	U	0.33	0.073	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
1,2-Dichloroethane	0.33	U	0.33	0.073	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
1,1-Dichloroethene	0.33	U	0.33	0.099	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
1,2-Dichloropropane	0.33	U	0.33	0.057	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
2,2-Dichloropropane	0.33	U	0.33	0.073	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
1,3-Dichloropropane	0.33	U	0.33	0.12	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
1,1-Dichloropropene	0.33	U	0.33	0.063	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Ethylbenzene	**1.2**		0.33	0.086	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Hexachlorobutadiene	0.33	U	0.33	0.21	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
2-Hexanone	1.7	U	1.7	0.22	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Isopropylbenzene	**0.37**		0.33	0.13	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Methyl acetate	0.66	U	0.66	0.33	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Methylcyclohexane	**10**		0.66	0.057	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Methylene Chloride	0.33	U	0.33	0.065	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
4-Methyl-2-pentanone	1.7	U	1.7	0.28	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Methyl tert-butyl ether	0.66	U	0.66	0.066	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Naphthalene	**4.3**		0.33	0.079	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
n-Butylbenzene	**0.28**	**J**	0.33	0.16	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
N-Propylbenzene	**0.45**		0.33	0.18	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
p-Isopropyltoluene	**0.20**	**J**	0.33	0.15	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
sec-Butylbenzene	0.33	U	0.33	0.14	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Styrene	0.33	U	0.33	0.062	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40

Client Sample ID: DDSB-8-0-2-20130314-01
Date Collected: 03/14/13 16:20
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-4
Matrix: Solid
Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.33	U	0.33	0.12	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
1,1,2,2-Tetrachloroethane	0.33	U	0.33	0.11	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
1,1,1,2-Tetrachloroethane	0.33	U	0.33	0.16	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Tetrachloroethene	0.33	U	0.33	0.13	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Toluene	**9.4**		0.33	0.056	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
trans-1,2-Dichloroethene	0.33	U	0.33	0.042	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
trans-1,3-Dichloropropene	0.33	U	0.33	0.058	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
1,2,4-Trichlorobenzene	0.33	U	0.33	0.059	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
1,2,3-Trichlorobenzene	0.33	U	0.33	0.11	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
1,1,1-Trichloroethane	0.33	U	0.33	0.039	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
1,1,2-Trichloroethane	0.33	U	0.33	0.086	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Trichloroethene	0.33	U	0.33	0.086	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Trichlorofluoromethane	0.33	U	0.33	0.079	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
1,2,3-Trichloropropane	0.33	U	0.33	0.16	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
1,1,2-Trichloro-1,2,2-trifluoroethane	0.33	U	0.33	0.086	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
1,2,4-Trimethylbenzene	**2.7**		0.33	0.093	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
1,3,5-Trimethylbenzene	**0.72**		0.33	0.11	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Vinyl chloride	0.33	U	0.33	0.099	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40
Xylenes, Total	**11**		0.66	0.073	mg/Kg	☼	03/21/13 14:22	03/24/13 14:51	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*65 - 130*	*03/21/13 14:22*	*03/24/13 14:51*	*40*
Dibromofluoromethane	*98*		*65 - 130*	*03/21/13 14:22*	*03/24/13 14:51*	*40*
Toluene-d8 (Surr)	*94*		*65 - 130*	*03/21/13 14:22*	*03/24/13 14:51*	*40*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.045**		0.039	0.012	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Acenaphthylene	0.039	U	0.039	0.0090	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Acetophenone	0.39	U	0.39	0.070	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
2-Acetylaminofluorene	0.20	U	0.20	0.036	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
alpha,alpha-Dimethyl phenethylamine	1.6	U	1.6	0.46	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
4-Aminobiphenyl	0.20	U	0.20	0.079	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Aniline	0.79	U	0.79	0.35	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Anthracene	**0.20**		0.039	0.0092	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Aramite	0.20	U	0.20	0.039	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Benzenethiol	0.79	U	0.79	0.39	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Benzidine	0.79	U *	0.79	0.39	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Benzo[a]anthracene	**0.42**		0.039	0.0082	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Benzo[a]pyrene	**0.26**		0.039	0.0071	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Benzo[b]fluoranthene	**0.36**		0.039	0.0076	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Benzo[g,h,i]perylene	**0.25**		0.039	0.013	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Benzoic acid	**0.89**	**J ***	2.0	0.54	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Benzo[k]fluoranthene	**0.16**		0.039	0.0093	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Benzyl alcohol	0.39	U	0.39	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Bis(2-chloroethoxy)methane	0.20	U	0.20	0.043	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Bis(2-chloroethyl)ether	0.20	U	0.20	0.058	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Bis(2-ethylhexyl) phthalate	0.20	U	0.20	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
4-Bromophenyl phenyl ether	0.20	U	0.20	0.044	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Butyl benzyl phthalate	0.20	U	0.20	0.049	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1

Client Sample ID: DDSB-8-0-2-20130314-01
Date Collected: 03/14/13 16:20
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-4
Matrix: Solid
Percent Solids: 85.0

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	0.39	U	0.39	0.090	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
4-Chloroaniline	0.79	U	0.79	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
4-Chloro-3-methylphenol	0.39	U	0.39	0.19	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
2-Chloronaphthalene	0.20	U	0.20	0.044	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
2-Chlorophenol	0.20	U	0.20	0.056	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
4-Chlorophenyl phenyl ether	0.20	U	0.20	0.061	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Chrysene	**0.52**		0.039	0.0088	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Diallate	0.20	U	0.20	0.039	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Dibenz(a,h)anthracene	**0.068**		0.039	0.011	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Dibenz[a,j]acridine	0.20	U	0.20	0.021	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Dibenzofuran	**1.4**		0.20	0.047	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
1,2-Dichlorobenzene	0.20	U	0.20	0.043	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
1,3-Dichlorobenzene	0.20	U	0.20	0.041	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
1,4-Dichlorobenzene	0.20	U	0.20	0.041	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
3,3'-Dichlorobenzidine	0.20	U	0.20	0.033	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
2,4-Dichlorophenol	0.39	U	0.39	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
2,6-Dichlorophenol	0.20	U	0.20	0.055	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Diethyl phthalate	0.20	U	0.20	0.065	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Diethylstilbestrol	0.79	U	0.79	0.097	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Dimethoate	0.39	U	0.39	0.088	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
7,12-Dimethylbenz(a)anthracene	0.20	U	0.20	0.048	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
3,3'-Dimethylbenzidine	0.79	U	0.79	0.20	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
2,4-Dimethylphenol	**0.19**	**J**	0.39	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Dimethyl phthalate	0.20	U	0.20	0.049	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Di-n-butyl phthalate	0.20	U	0.20	0.049	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
1,4-Dinitrobenzene	0.20	U	0.20	0.030	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
4,6-Dinitro-2-methylphenol	0.39	U	0.39	0.095	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
2,4-Dinitrophenol	0.79	U	0.79	0.20	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
2,4-Dinitrotoluene	0.20	U	0.20	0.060	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
2,6-Dinitrotoluene	0.20	U	0.20	0.046	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Di-n-octyl phthalate	0.20	U	0.20	0.079	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Dinoseb	0.39	U *	0.39	0.10	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
1,4-Dioxane	0.79	U	0.79	0.26	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Diphenylamine	0.20	U	0.20	0.045	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
1,2-Diphenylhydrazine	0.20	U	0.20	0.049	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Disulfoton	0.39	U	0.39	0.059	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Ethyl 4,4'-Dichlorobenzilate	0.20	U	0.20	0.025	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Ethyl methanesulfonate	0.20	U	0.20	0.022	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Ethyl Parathion	0.39	U	0.39	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Famphur	0.39	U	0.39	0.063	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Fluoranthene	**0.55**		0.039	0.016	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Fluorene	0.039	U	0.039	0.0089	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Hexachlorobenzene	0.079	U	0.079	0.0077	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Hexachlorobutadiene	0.20	U	0.20	0.051	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Hexachlorocyclopentadiene	0.79	U	0.79	0.18	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Hexachloroethane	0.20	U	0.20	0.042	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Hexachlorophene	3.9	U	3.9	1.4	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Hexachloropropene	0.39	U	0.39	0.16	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Indeno[1,2,3-cd]pyrene	**0.11**		0.039	0.013	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1

Client Sample ID: DDSB-8-0-2-20130314-01
Date Collected: 03/14/13 16:20
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-4
Matrix: Solid
Percent Solids: 85.0

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	0.20	U	0.20	0.043	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Isosafrole	0.20	U	0.20	0.021	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Kepone	0.79	U	0.79	0.39	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Malathion	0.39	U	0.39	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
m-Dinitrobenzene	0.20	U	0.20	0.037	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Methapyrilene	1.6	U	1.6	0.20	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
3-Methylcholanthrene	0.20	U	0.20	0.016	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Methyl methanesulfonate	0.20	U	0.20	0.032	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Methyl parathion	0.39	U	0.39	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
2-Methylphenol	0.20	U	0.20	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
3 & 4 Methylphenol	**0.11**	**J**	0.20	0.074	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
1,4-Naphthoquinone	0.79	U	0.79	0.39	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
1-Naphthylamine	0.20	U	0.20	0.030	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
2-Naphthylamine	0.20	U	0.20	0.053	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
2-Nitroaniline	0.20	U	0.20	0.070	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
3-Nitroaniline	0.39	U	0.39	0.075	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
4-Nitroaniline	0.39	U	0.39	0.080	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Nitrobenzene	0.039	U	0.039	0.012	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
5-Nitro-o-toluidine	0.20	U	0.20	0.037	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
2-Nitrophenol	0.39	U	0.39	0.061	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
4-Nitrophenol	0.79	U	0.79	0.21	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
4-Nitroquinoline-1-oxide	0.79	U	0.79	0.37	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
N-Nitrosodiethylamine	0.39	U	0.39	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
N-Nitrosodimethylamine	0.79	U	0.79	0.43	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
N-Nitrosodi-n-butylamine	0.20	U	0.20	0.070	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
N-Nitrosodi-n-propylamine	0.20	U	0.20	0.050	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
N-Nitrosodiphenylamine	0.20	U	0.20	0.053	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
N-Nitrosomethylethylamine	0.79	U	0.79	0.32	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
N-Nitrosomorpholine	0.20	U	0.20	0.036	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
N-Nitrosopiperidine	0.39	U	0.39	0.036	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
N-Nitrosopyrrolidine	0.20	U	0.20	0.045	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
o,o',o''-Triethylphosphorothioate	0.39	U	0.39	0.060	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
o-Toluidine	0.20	U	0.20	0.038	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
2,2'-oxybis[1-chloropropane]	0.20	U	0.20	0.043	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
p-Dimethylamino azobenzene	0.20	U	0.20	0.021	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Pentachlorobenzene	0.20	U	0.20	0.049	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Pentachloronitrobenzene	0.20	U	0.20	0.028	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Pentachlorophenol	0.79	U	0.79	0.20	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Phenacetin	0.20	U	0.20	0.041	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Phenanthrene	**2.3**		0.039	0.016	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Phenol	0.20	U	0.20	0.062	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Phorate	0.39	U	0.39	0.082	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
2-Picoline	0.39	U	0.39	0.15	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
p-Phenylene diamine	1.6	U	1.6	0.082	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Pronamide	0.20	U	0.20	0.032	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Pyrene	**0.56**		0.039	0.014	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Pyridine	0.79	U	0.79	0.46	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Safrole	0.20	U	0.20	0.019	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Sulfotepp	0.39	U	0.39	0.078	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-8-0-2-20130314-01
Date Collected: 03/14/13 16:20
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-4
Matrix: Solid
Percent Solids: 85.0

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sym-Trinitrobenzene	0.79	U	0.79	0.40	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
1,2,4,5-Tetrachlorobenzene	0.20	U	0.20	0.046	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
2,3,4,6-Tetrachlorophenol	0.20	U	0.20	0.053	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
Thionazin	0.39	U	0.39	0.087	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
1,2,4-Trichlorobenzene	0.20	U	0.20	0.044	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
2,4,5-Trichlorophenol	0.39	U	0.39	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1
2,4,6-Trichlorophenol	0.39	U	0.39	0.049	mg/Kg	☼	03/18/13 16:41	03/25/13 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*30 - 119*	*03/18/13 16:41*	*03/25/13 18:49*	*1*
2-Fluorophenol	*54*		*30 - 110*	*03/18/13 16:41*	*03/25/13 18:49*	*1*
Nitrobenzene-d5	*57*		*30 - 115*	*03/18/13 16:41*	*03/25/13 18:49*	*1*
Phenol-d5	*60*		*31 - 110*	*03/18/13 16:41*	*03/25/13 18:49*	*1*
Terphenyl-d14	*72*		*36 - 134*	*03/18/13 16:41*	*03/25/13 18:49*	*1*
2,4,6-Tribromophenol	*74*		*35 - 137*	*03/18/13 16:41*	*03/25/13 18:49*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**8.4**		0.98	0.25	mg/Kg	☼	03/18/13 16:41	03/28/13 19:23	5
Naphthalene	**5.3**		0.19	0.038	mg/Kg	☼	03/18/13 16:41	03/28/13 19:23	5

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.019	U	0.019	0.0079	mg/Kg	☼	03/18/13 18:27	03/20/13 21:39	10
alpha-BHC	0.019	U	0.019	0.0049	mg/Kg	☼	03/18/13 18:27	03/20/13 21:39	10
beta-BHC	0.019	U	0.019	0.0059	mg/Kg	☼	03/18/13 18:27	03/20/13 21:39	10
Chlordane (technical)	0.077	U	0.077	0.037	mg/Kg	☼	03/18/13 18:27	03/20/13 21:39	10
4,4'-DDD	0.019	U	0.019	0.0038	mg/Kg	☼	03/18/13 18:27	03/20/13 21:39	10
4,4'-DDE	0.019	U	0.019	0.0032	mg/Kg	☼	03/18/13 18:27	03/20/13 21:39	10
4,4'-DDT	0.019	U	0.019	0.010	mg/Kg	☼	03/18/13 18:27	03/20/13 21:39	10
delta-BHC	0.019	U	0.019	0.0060	mg/Kg	☼	03/18/13 18:27	03/20/13 21:39	10
Dieldrin	0.019	U	0.019	0.0026	mg/Kg	☼	03/18/13 18:27	03/20/13 21:39	10
Endosulfan I	0.019	U	0.019	0.0084	mg/Kg	☼	03/18/13 18:27	03/20/13 21:39	10
Endosulfan II	0.019	U	0.019	0.0031	mg/Kg	☼	03/18/13 18:27	03/20/13 21:39	10
Endosulfan sulfate	0.019	U	0.019	0.0035	mg/Kg	☼	03/18/13 18:27	03/20/13 21:39	10
Endrin	0.019	U	0.019	0.0026	mg/Kg	☼	03/18/13 18:27	03/20/13 21:39	10
Endrin aldehyde	0.019	U	0.019	0.0032	mg/Kg	☼	03/18/13 18:27	03/20/13 21:39	10
Endrin ketone	0.019	U	0.019	0.0043	mg/Kg	☼	03/18/13 18:27	03/20/13 21:39	10
gamma-BHC (Lindane)	0.019	U	0.019	0.0042	mg/Kg	☼	03/18/13 18:27	03/20/13 21:39	10
Heptachlor	0.019	U	0.019	0.0080	mg/Kg	☼	03/18/13 18:27	03/20/13 21:39	10
Heptachlor epoxide	0.019	U	0.019	0.0068	mg/Kg	☼	03/18/13 18:27	03/20/13 21:39	10
Isodrin	0.019	U	0.019	0.0089	mg/Kg	☼	03/18/13 18:27	03/20/13 21:39	10
Methoxychlor	0.095	U	0.095	0.0037	mg/Kg	☼	03/18/13 18:27	03/20/13 21:39	10
Toxaphene	0.19	U	0.19	0.081	mg/Kg	☼	03/18/13 18:27	03/20/13 21:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*52*	*X*	*56 - 128*	*03/18/13 18:27*	*03/20/13 21:39*	*10*
Tetrachloro-m-xylene	*63*		*45 - 112*	*03/18/13 18:27*	*03/20/13 21:39*	*10*

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-8-0-2-20130314-01
Date Collected: 03/14/13 16:20
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-4
Matrix: Solid
Percent Solids: 85.0

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.019	U	0.019	0.0068	mg/Kg	☼	03/18/13 18:27	03/20/13 17:22	1
PCB-1221	0.019	U	0.019	0.0084	mg/Kg	☼	03/18/13 18:27	03/20/13 17:22	1
PCB-1232	0.019	U	0.019	0.0083	mg/Kg	☼	03/18/13 18:27	03/20/13 17:22	1
PCB-1242	0.019	U	0.019	0.0063	mg/Kg	☼	03/18/13 18:27	03/20/13 17:22	1
PCB-1248	0.019	U	0.019	0.0075	mg/Kg	☼	03/18/13 18:27	03/20/13 17:22	1
PCB-1254	0.019	U	0.019	0.0041	mg/Kg	☼	03/18/13 18:27	03/20/13 17:22	1
PCB-1260	0.019	U	0.019	0.0094	mg/Kg	☼	03/18/13 18:27	03/20/13 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*50 - 116*	*03/18/13 18:27*	*03/20/13 17:22*	*1*
DCB Decachlorobiphenyl	*74*		*48 - 142*	*03/18/13 18:27*	*03/20/13 17:22*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.077	U	0.077	0.0034	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Azinphos-methyl	0.077	U	0.077	0.017	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Bolstar	0.038	U	0.038	0.0055	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Carbophenthion	0.077	U	0.077	0.0062	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Chlorpyrifos	0.038	U	0.038	0.0079	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Chlorpyrifos-methyl	0.038	U	0.038	0.014	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Coumaphos	0.38	U	0.38	0.026	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Demeton-O	0.097	U	0.097	0.0030	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Demeton-S	0.097	U	0.097	0.0065	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Demeton, Total	0.097	U	0.097	0.0090	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Diazinon	0.038	U	0.038	0.0066	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Dichlofenthion	0.038	U	0.038	0.0049	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Dichlorvos	0.077	U	0.077	0.0074	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Dimethoate	0.077	U	0.077	0.010	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Disulfoton	0.077	U	0.077	0.019	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
EPN	0.038	U	0.038	0.0052	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Ethion	0.020	U	0.020	0.0062	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Ethoprop	0.020	U	0.020	0.0049	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Ethyl Parathion	0.038	U	0.038	0.0064	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Famphur	0.077	U	0.077	0.0097	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Fensulfothion	0.38	U	0.38	0.014	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Fenthion	**0.0056**	**J p**	0.038	0.0055	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Malathion	0.038	U	0.038	0.0095	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Merphos	0.038	U	0.038	0.013	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Methyl parathion	0.020	U	0.020	0.0063	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Mevinphos	0.077	U	0.077	0.0054	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Monochrotophos	0.38	U	0.38	0.054	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Naled	0.38	U	0.38	0.026	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Phorate	0.038	U	0.038	0.0063	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Ronnel	0.038	U	0.038	0.0049	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Simazine	0.077	U	0.077	0.0037	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Stirophos	0.038	U	0.038	0.0074	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Sulfotepp	0.020	U	0.020	0.010	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Terbufos	0.020	U	0.020	0.019	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Thionazin	0.038	U	0.038	0.012	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1
Tokuthion	0.038	U	0.038	0.0063	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-8-0-2-20130314-01
Date Collected: 03/14/13 16:20
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-4
Matrix: Solid
Percent Solids: 85.0

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloronate	0.38	U	0.38	0.0088	mg/Kg	☼	03/18/13 14:54	04/01/13 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate (TPP)	*72*		*35 - 134*	*03/18/13 14:54*	*04/01/13 12:48*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2800**		46	23	mg/Kg	☼	03/21/13 11:26	03/22/13 23:35	1
Antimony	4.6	U	4.6	1.2	mg/Kg	☼	03/21/13 11:26	03/22/13 23:35	1
Arsenic	**11**		4.6	1.4	mg/Kg	☼	03/21/13 11:26	03/22/13 23:35	1
Barium	**58**		2.3	0.69	mg/Kg	☼	03/21/13 11:26	03/22/13 23:35	1
Beryllium	**0.41**	**J**	0.92	0.046	mg/Kg	☼	03/21/13 11:26	03/22/13 23:35	1
Cadmium	1.2	U	1.2	0.23	mg/Kg	☼	03/21/13 11:26	03/22/13 23:35	1
Calcium	**840**		120	46	mg/Kg	☼	03/21/13 11:26	03/22/13 23:35	1
Chromium	**5.8**		2.3	1.2	mg/Kg	☼	03/21/13 11:26	03/22/13 23:35	1
Cobalt	**1.9**	**J**	2.3	0.28	mg/Kg	☼	03/21/13 11:26	03/22/13 23:35	1
Copper	**13**		5.8	2.5	mg/Kg	☼	03/21/13 11:26	03/22/13 23:35	1
Iron	**11000**		46	16	mg/Kg	☼	03/21/13 11:26	03/22/13 23:35	1
Lead	**23**		2.3	1.2	mg/Kg	☼	03/21/13 11:26	03/22/13 23:35	1
Magnesium	**150**		120	5.5	mg/Kg	☼	03/21/13 11:26	03/22/13 23:35	1
Manganese	**42**		2.3	0.69	mg/Kg	☼	03/21/13 11:26	03/22/13 23:35	1
Nickel	**4.7**	**J**	9.2	0.72	mg/Kg	☼	03/21/13 11:26	03/22/13 23:35	1
Potassium	**290**		230	18	mg/Kg	☼	03/21/13 11:26	03/22/13 23:35	1
Selenium	**2.7**	**J**	5.8	2.3	mg/Kg	☼	03/21/13 11:26	03/22/13 23:35	1
Silver	2.3	U	2.3	0.22	mg/Kg	☼	03/21/13 11:26	03/22/13 23:35	1
Sodium	460	U	460	190	mg/Kg	☼	03/21/13 11:26	03/22/13 23:35	1
Thallium	5.8	U	5.8	2.3	mg/Kg	☼	03/21/13 11:26	03/22/13 23:35	1
Vanadium	**12**		2.3	0.55	mg/Kg	☼	03/21/13 11:26	03/22/13 23:35	1
Zinc	**28**		4.6	2.8	mg/Kg	☼	03/21/13 11:26	03/22/13 23:35	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.062**		0.023	0.0093	mg/Kg	☼	03/21/13 09:33	03/22/13 17:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	1.2	U	1.2	0.35	mg/Kg	☼	03/18/13 10:55	03/20/13 12:23	1
Cyanide, Total	**0.65**		0.58	0.24	mg/Kg	☼	03/20/13 10:30	03/21/13 09:17	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-8-8-11-20130314-01
Date Collected: 03/14/13 16:40
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-5
Matrix: Solid
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.050	U	0.050	0.011	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Benzene	0.0050	U	0.0050	0.00072	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Bromobenzene	0.0050	U	0.0050	0.0017	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Bromochloromethane	0.0050	U	0.0050	0.0033	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Bromodichloromethane	0.0050	U	0.0050	0.00096	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Bromoform	0.0050	U	0.0050	0.0015	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Bromomethane	0.0050	U	0.0050	0.0015	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
2-Butanone	0.025	U	0.025	0.0024	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Carbon disulfide	0.0050	U	0.0050	0.0011	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Carbon tetrachloride	0.0050	U	0.0050	0.00082	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Chlorobenzene	0.0050	U	0.0050	0.00095	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Chlorodibromomethane	0.0050	U	0.0050	0.0017	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Chloroethane	0.0050	U	0.0050	0.0027	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Chloroform	0.0050	U	0.0050	0.0011	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Chloromethane	0.0050	U	0.0050	0.00099	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
2-Chlorotoluene	0.0050	U	0.0050	0.0020	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
4-Chlorotoluene	0.0050	U	0.0050	0.0017	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
cis-1,2-Dichloroethene	0.0050	U	0.0050	0.0014	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
cis-1,3-Dichloropropene	0.0050	U	0.0050	0.00082	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Cyclohexane	0.0099	U	0.0099	0.0013	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
1,2-Dibromo-3-Chloropropane	0.0099	U	0.0099	0.0044	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
1,2-Dibromoethane	0.0050	U	0.0050	0.0015	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Dibromomethane	0.0050	U	0.0050	0.0017	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
1,2-Dichlorobenzene	0.0050	U	0.0050	0.0013	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
1,3-Dichlorobenzene	0.0050	U	0.0050	0.0016	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
1,4-Dichlorobenzene	0.0050	U	0.0050	0.00073	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Dichlorodifluoromethane	0.0050	U	0.0050	0.00093	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
1,1-Dichloroethane	0.0050	U	0.0050	0.0011	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
1,2-Dichloroethane	0.0050	U	0.0050	0.0011	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
1,1-Dichloroethene	0.0050	U	0.0050	0.0015	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
1,2-Dichloropropane	0.0050	U	0.0050	0.00085	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
2,2-Dichloropropane	0.0050	U	0.0050	0.0011	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
1,3-Dichloropropane	0.0050	U	0.0050	0.0018	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
1,1-Dichloropropene	0.0050	U	0.0050	0.00094	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Ethylbenzene	0.0050	U	0.0050	0.0013	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Hexachlorobutadiene	0.0050	U	0.0050	0.0031	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
2-Hexanone	0.025	U	0.025	0.0033	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Isopropylbenzene	0.0050	U	0.0050	0.0019	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Methyl acetate	0.0099	U	0.0099	0.0050	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Methylcyclohexane	0.0099	U	0.0099	0.00085	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Methylene Chloride	0.0050	U	0.0050	0.00097	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
4-Methyl-2-pentanone	0.025	U	0.025	0.0042	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Methyl tert-butyl ether	0.0099	U	0.0099	0.00099	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Naphthalene	0.0050	U	0.0050	0.0012	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
n-Butylbenzene	0.0050	U	0.0050	0.0024	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
N-Propylbenzene	0.0050	U	0.0050	0.0027	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
p-Isopropyltoluene	0.0050	U	0.0050	0.0022	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
sec-Butylbenzene	0.0050	U	0.0050	0.0021	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Styrene	0.0050	U	0.0050	0.00092	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-8-8-11-20130314-01
Date Collected: 03/14/13 16:40
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-5
Matrix: Solid
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.0050	U	0.0050	0.0018	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
1,1,2,2-Tetrachloroethane	0.0050	U	0.0050	0.0016	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
1,1,1,2-Tetrachloroethane	0.0050	U	0.0050	0.0024	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Tetrachloroethene	0.0050	U	0.0050	0.0019	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Toluene	0.0050	U	0.0050	0.00083	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
trans-1,2-Dichloroethene	0.0050	U	0.0050	0.00063	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
trans-1,3-Dichloropropene	0.0050	U	0.0050	0.00086	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
1,2,4-Trichlorobenzene	0.0050	U	0.0050	0.00088	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
1,2,3-Trichlorobenzene	0.0050	U	0.0050	0.0016	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
1,1,1-Trichloroethane	0.0050	U	0.0050	0.00059	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
1,1,2-Trichloroethane	0.0050	U	0.0050	0.0013	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Trichloroethene	0.0050	U	0.0050	0.0013	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Trichlorofluoromethane	0.0050	U	0.0050	0.0012	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
1,2,3-Trichloropropane	0.0050	U	0.0050	0.0024	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0050	U	0.0050	0.0013	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
1,2,4-Trimethylbenzene	0.0050	U	0.0050	0.0014	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
1,3,5-Trimethylbenzene	0.0050	U	0.0050	0.0017	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Vinyl chloride	0.0050	U	0.0050	0.0015	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1
Xylenes, Total	0.0099	U	0.0099	0.0011	mg/Kg	☼	03/21/13 14:22	03/23/13 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*65 - 130*	*03/21/13 14:22*	*03/23/13 22:24*	*1*
Dibromofluoromethane	*99*		*65 - 130*	*03/21/13 14:22*	*03/23/13 22:24*	*1*
Toluene-d8 (Surr)	*97*		*65 - 130*	*03/21/13 14:22*	*03/23/13 22:24*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.041	U	0.041	0.012	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Acenaphthylene	0.041	U	0.041	0.0095	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Acetophenone	0.41	U	0.41	0.075	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
2-Acetylaminofluorene	0.21	U	0.21	0.038	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
alpha,alpha-Dimethyl phenethylamine	1.7	U	1.7	0.49	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
4-Aminobiphenyl	0.21	U	0.21	0.084	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Aniline	0.84	U	0.84	0.37	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Anthracene	0.041	U	0.041	0.0097	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Aramite	0.21	U	0.21	0.041	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Benzenethiol	0.84	U	0.84	0.41	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Benzidine	0.84	U *	0.84	0.41	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Benzo[a]anthracene	0.041	U	0.041	0.0087	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Benzo[a]pyrene	0.041	U	0.041	0.0075	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Benzo[b]fluoranthene	0.041	U	0.041	0.0080	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Benzo[g,h,i]perylene	0.041	U	0.041	0.014	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Benzoic acid	2.1	U *	2.1	0.57	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Benzo[k]fluoranthene	0.041	U	0.041	0.0099	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Benzyl alcohol	0.41	U	0.41	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Bis(2-chloroethoxy)methane	0.21	U	0.21	0.046	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Bis(2-chloroethyl)ether	0.21	U	0.21	0.061	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Bis(2-ethylhexyl) phthalate	0.21	U	0.21	0.055	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
4-Bromophenyl phenyl ether	0.21	U	0.21	0.046	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Butyl benzyl phthalate	0.21	U	0.21	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1

Client Sample ID: DDSB-8-8-11-20130314-01
Date Collected: 03/14/13 16:40
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-5
Matrix: Solid
Percent Solids: 79.2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	0.41	U	0.41	0.096	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
4-Chloroaniline	0.84	U	0.84	0.13	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
4-Chloro-3-methylphenol	0.41	U	0.41	0.20	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
2-Chloronaphthalene	0.21	U	0.21	0.047	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
2-Chlorophenol	0.21	U	0.21	0.059	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
4-Chlorophenyl phenyl ether	0.21	U	0.21	0.065	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Chrysene	0.041	U	0.041	0.0094	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Diallate	0.21	U	0.21	0.041	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Dibenz(a,h)anthracene	0.041	U	0.041	0.012	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Dibenz[a,j]acridine	0.21	U	0.21	0.023	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Dibenzofuran	0.21	U	0.21	0.050	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
1,2-Dichlorobenzene	0.21	U	0.21	0.045	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
1,3-Dichlorobenzene	0.21	U	0.21	0.044	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
1,4-Dichlorobenzene	0.21	U	0.21	0.044	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
3,3'-Dichlorobenzidine	0.21	U	0.21	0.035	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
2,4-Dichlorophenol	0.41	U	0.41	0.13	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
2,6-Dichlorophenol	0.21	U	0.21	0.059	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Diethyl phthalate	0.21	U	0.21	0.069	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Diethylstilbestrol	0.84	U	0.84	0.10	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Dimethoate	0.41	U	0.41	0.093	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
7,12-Dimethylbenz(a)anthracene	0.21	U	0.21	0.051	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
3,3'-Dimethylbenzidine	0.84	U	0.84	0.22	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
2,4-Dimethylphenol	0.41	U	0.41	0.13	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Dimethyl phthalate	0.21	U	0.21	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Di-n-butyl phthalate	0.21	U	0.21	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
1,4-Dinitrobenzene	0.21	U	0.21	0.032	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
4,6-Dinitro-2-methylphenol	0.41	U	0.41	0.10	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
2,4-Dinitrophenol	0.84	U	0.84	0.21	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
2,4-Dinitrotoluene	0.21	U	0.21	0.063	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
2,6-Dinitrotoluene	0.21	U	0.21	0.049	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Di-n-octyl phthalate	0.21	U	0.21	0.084	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Dinoseb	0.41	U *	0.41	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
1,4-Dioxane	0.84	U	0.84	0.28	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Diphenylamine	0.21	U	0.21	0.048	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
1,2-Diphenylhydrazine	0.21	U	0.21	0.053	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Disulfoton	0.41	U	0.41	0.063	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Ethyl 4,4'-Dichlorobenzilate	0.21	U	0.21	0.026	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Ethyl methanesulfonate	0.21	U	0.21	0.023	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Ethyl Parathion	0.41	U	0.41	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Famphur	0.41	U	0.41	0.067	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Fluoranthene	0.041	U	0.041	0.017	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Fluorene	0.041	U	0.041	0.0094	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Hexachlorobenzene	0.084	U	0.084	0.0082	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Hexachlorobutadiene	0.21	U	0.21	0.054	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Hexachlorocyclopentadiene	0.84	U	0.84	0.19	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Hexachloroethane	0.21	U	0.21	0.044	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Hexachlorophene	4.1	U	4.1	1.5	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Hexachloropropene	0.41	U	0.41	0.16	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Indeno[1,2,3-cd]pyrene	0.041	U	0.041	0.014	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-8-8-11-20130314-01
Date Collected: 03/14/13 16:40
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-5
Matrix: Solid
Percent Solids: 79.2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	0.21	U	0.21	0.046	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Isosafrole	0.21	U	0.21	0.022	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Kepone	0.84	U	0.84	0.41	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Malathion	0.41	U	0.41	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
m-Dinitrobenzene	0.21	U	0.21	0.039	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Methapyrilene	1.7	U	1.7	0.22	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
3-Methylcholanthrene	0.21	U	0.21	0.017	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Methyl methanesulfonate	0.21	U	0.21	0.034	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
2-Methylnaphthalene	0.21	U	0.21	0.054	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Methyl parathion	0.41	U	0.41	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
2-Methylphenol	0.21	U	0.21	0.055	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
3 & 4 Methylphenol	0.21	U	0.21	0.078	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Naphthalene	0.041	U	0.041	0.0080	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
1,4-Naphthoquinone	0.84	U	0.84	0.41	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
1-Naphthylamine	0.21	U	0.21	0.032	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
2-Naphthylamine	0.21	U	0.21	0.056	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
2-Nitroaniline	0.21	U	0.21	0.075	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
3-Nitroaniline	0.41	U	0.41	0.080	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
4-Nitroaniline	0.41	U	0.41	0.085	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Nitrobenzene	0.041	U	0.041	0.013	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
5-Nitro-o-toluidine	0.21	U	0.21	0.039	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
2-Nitrophenol	0.41	U	0.41	0.065	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
4-Nitrophenol	0.84	U	0.84	0.22	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
4-Nitroquinoline-1-oxide	0.84	U	0.84	0.39	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
N-Nitrosodiethylamine	0.41	U	0.41	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
N-Nitrosodimethylamine	0.84	U	0.84	0.45	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
N-Nitrosodi-n-butylamine	0.21	U	0.21	0.074	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
N-Nitrosodi-n-propylamine	0.21	U	0.21	0.053	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
N-Nitrosodiphenylamine	0.21	U	0.21	0.056	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
N-Nitrosomethylethylamine	0.84	U	0.84	0.34	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
N-Nitrosomorpholine	0.21	U	0.21	0.039	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
N-Nitrosopiperidine	0.41	U	0.41	0.038	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
N-Nitrosopyrrolidine	0.21	U	0.21	0.048	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
o,o',o''-Triethylphosphorothioate	0.41	U	0.41	0.064	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
o-Toluidine	0.21	U	0.21	0.040	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
2,2'-oxybis[1-chloropropane]	0.21	U	0.21	0.046	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
p-Dimethylamino azobenzene	0.21	U	0.21	0.022	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Pentachlorobenzene	0.21	U	0.21	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Pentachloronitrobenzene	0.21	U	0.21	0.029	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Pentachlorophenol	0.84	U	0.84	0.21	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Phenacetin	0.21	U	0.21	0.043	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Phenanthrene	0.041	U	0.041	0.017	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Phenol	0.21	U	0.21	0.066	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Phorate	0.41	U	0.41	0.088	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
2-Picoline	0.41	U	0.41	0.16	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
p-Phenylene diamine	1.7	U	1.7	0.087	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Pronamide	0.21	U	0.21	0.034	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Pyrene	0.041	U	0.041	0.015	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Pyridine	0.84	U	0.84	0.49	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1

Client Sample ID: DDSB-8-8-11-20130314-01
Date Collected: 03/14/13 16:40
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-5
Matrix: Solid
Percent Solids: 79.2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole	0.21	U	0.21	0.020	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Sulfotepp	0.41	U	0.41	0.083	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
sym-Trinitrobenzene	0.84	U	0.84	0.42	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
1,2,4,5-Tetrachlorobenzene	0.21	U	0.21	0.049	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
2,3,4,6-Tetrachlorophenol	0.21	U	0.21	0.057	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
Thionazin	0.41	U	0.41	0.092	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
1,2,4-Trichlorobenzene	0.21	U	0.21	0.047	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
2,4,5-Trichlorophenol	0.41	U	0.41	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1
2,4,6-Trichlorophenol	0.41	U	0.41	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*48*		*30 - 119*	*03/18/13 16:41*	*03/25/13 19:07*	*1*
2-Fluorophenol	*52*		*30 - 110*	*03/18/13 16:41*	*03/25/13 19:07*	*1*
Nitrobenzene-d5	*49*		*30 - 115*	*03/18/13 16:41*	*03/25/13 19:07*	*1*
Phenol-d5	*53*		*31 - 110*	*03/18/13 16:41*	*03/25/13 19:07*	*1*
Terphenyl-d14	*70*		*36 - 134*	*03/18/13 16:41*	*03/25/13 19:07*	*1*
2,4,6-Tribromophenol	*68*		*35 - 137*	*03/18/13 16:41*	*03/25/13 19:07*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0020	U	0.0020	0.00083	mg/Kg	☼	03/18/13 18:27	03/20/13 22:40	1
alpha-BHC	0.0020	U	0.0020	0.00051	mg/Kg	☼	03/18/13 18:27	03/20/13 22:40	1
beta-BHC	0.0020	U	0.0020	0.00062	mg/Kg	☼	03/18/13 18:27	03/20/13 22:40	1
Chlordane (technical)	0.0081	U	0.0081	0.0039	mg/Kg	☼	03/18/13 18:27	03/20/13 22:40	1
4,4'-DDD	0.0020	U	0.0020	0.00040	mg/Kg	☼	03/18/13 18:27	03/20/13 22:40	1
4,4'-DDE	0.0020	U	0.0020	0.00033	mg/Kg	☼	03/18/13 18:27	03/20/13 22:40	1
4,4'-DDT	0.0020	U	0.0020	0.0011	mg/Kg	☼	03/18/13 18:27	03/20/13 22:40	1
delta-BHC	0.0020	U	0.0020	0.00063	mg/Kg	☼	03/18/13 18:27	03/20/13 22:40	1
Dieldrin	0.0020	U	0.0020	0.00028	mg/Kg	☼	03/18/13 18:27	03/20/13 22:40	1
Endosulfan I	0.0020	U	0.0020	0.00088	mg/Kg	☼	03/18/13 18:27	03/20/13 22:40	1
Endosulfan II	0.0020	U	0.0020	0.00033	mg/Kg	☼	03/18/13 18:27	03/20/13 22:40	1
Endosulfan sulfate	0.0020	U	0.0020	0.00037	mg/Kg	☼	03/18/13 18:27	03/20/13 22:40	1
Endrin	0.0020	U	0.0020	0.00028	mg/Kg	☼	03/18/13 18:27	03/20/13 22:40	1
Endrin aldehyde	0.0020	U	0.0020	0.00034	mg/Kg	☼	03/18/13 18:27	03/20/13 22:40	1
Endrin ketone	0.0020	U	0.0020	0.00045	mg/Kg	☼	03/18/13 18:27	03/20/13 22:40	1
gamma-BHC (Lindane)	0.0020	U	0.0020	0.00044	mg/Kg	☼	03/18/13 18:27	03/20/13 22:40	1
Heptachlor	0.0020	U	0.0020	0.00084	mg/Kg	☼	03/18/13 18:27	03/20/13 22:40	1
Heptachlor epoxide	0.0020	U	0.0020	0.00071	mg/Kg	☼	03/18/13 18:27	03/20/13 22:40	1
Isodrin	0.0020	U	0.0020	0.00093	mg/Kg	☼	03/18/13 18:27	03/20/13 22:40	1
Methoxychlor	0.010	U	0.010	0.00039	mg/Kg	☼	03/18/13 18:27	03/20/13 22:40	1
Toxaphene	0.020	U	0.020	0.0085	mg/Kg	☼	03/18/13 18:27	03/20/13 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*56 - 128*	*03/18/13 18:27*	*03/20/13 22:40*	*1*
Tetrachloro-m-xylene	*49*		*45 - 112*	*03/18/13 18:27*	*03/20/13 22:40*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.020	U	0.020	0.0071	mg/Kg	☼	03/18/13 18:27	03/20/13 18:05	1
PCB-1221	0.020	U	0.020	0.0088	mg/Kg	☼	03/18/13 18:27	03/20/13 18:05	1

Client Sample ID: DDSB-8-8-11-20130314-01
Date Collected: 03/14/13 16:40
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-5
Matrix: Solid
Percent Solids: 79.2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	0.020	U	0.020	0.0087	mg/Kg	☼	03/18/13 18:27	03/20/13 18:05	1
PCB-1242	0.020	U	0.020	0.0066	mg/Kg	☼	03/18/13 18:27	03/20/13 18:05	1
PCB-1248	0.020	U	0.020	0.0079	mg/Kg	☼	03/18/13 18:27	03/20/13 18:05	1
PCB-1254	0.020	U	0.020	0.0043	mg/Kg	☼	03/18/13 18:27	03/20/13 18:05	1
PCB-1260	0.020	U	0.020	0.0098	mg/Kg	☼	03/18/13 18:27	03/20/13 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*50 - 116*	*03/18/13 18:27*	*03/20/13 18:05*	*1*
DCB Decachlorobiphenyl	*75*		*48 - 142*	*03/18/13 18:27*	*03/20/13 18:05*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.082	U	0.082	0.0036	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Azinphos-methyl	0.082	U	0.082	0.019	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Bolstar	0.041	U	0.041	0.0059	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Carbophenthion	0.082	U	0.082	0.0066	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Chlorpyrifos	0.041	U	0.041	0.0085	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Chlorpyrifos-methyl	0.041	U	0.041	0.015	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Coumaphos	0.41	U	0.41	0.027	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Demeton-O	0.10	U	0.10	0.0032	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Demeton-S	0.10	U	0.10	0.0070	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Demeton, Total	0.10	U	0.10	0.0096	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Diazinon	0.041	U	0.041	0.0071	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Dichlofenthion	0.041	U	0.041	0.0052	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Dichlorvos	0.082	U	0.082	0.0080	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Dimethoate	0.082	U	0.082	0.011	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Disulfoton	0.082	U	0.082	0.020	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
EPN	0.041	U	0.041	0.0056	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Ethion	0.021	U	0.021	0.0066	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Ethoprop	0.021	U	0.021	0.0052	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Ethyl Parathion	0.041	U	0.041	0.0069	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Famphur	0.082	U	0.082	0.010	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Fensulfothion	0.41	U	0.41	0.015	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Fenthion	0.041	U	0.041	0.0059	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Malathion	0.041	U	0.041	0.010	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Merphos	0.041	U	0.041	0.014	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Methyl parathion	0.021	U	0.021	0.0067	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Mevinphos	0.082	U	0.082	0.0057	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Monochrotophos	0.41	U	0.41	0.057	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Naled	0.41	U	0.41	0.027	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Phorate	0.041	U	0.041	0.0067	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Ronnel	0.041	U	0.041	0.0052	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Simazine	0.082	U	0.082	0.0040	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Stirophos	0.041	U	0.041	0.0080	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Sulfotepp	0.021	U	0.021	0.011	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Terbufos	0.021	U	0.021	0.020	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Thionazin	0.041	U	0.041	0.012	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Tokuthion	0.041	U	0.041	0.0067	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1
Trichloronate	0.41	U	0.41	0.0095	mg/Kg	☼	03/18/13 14:54	04/01/13 13:03	1

Client Sample ID: DDSB-8-8-11-20130314-01

Date Collected: 03/14/13 16:40
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-5

Matrix: Solid
Percent Solids: 79.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate (TPP)	*50*		*35 - 134*	*03/18/13 14:54*	*04/01/13 13:03*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**18000**		24	12	mg/Kg	☼	03/20/13 12:29	03/21/13 16:58	1
Antimony	**0.77**	**J**	2.4	0.63	mg/Kg	☼	03/20/13 12:29	03/21/13 16:58	1
Arsenic	**1.8**	**J**	2.4	0.70	mg/Kg	☼	03/20/13 12:29	03/21/13 16:58	1
Barium	**36**		1.2	0.35	mg/Kg	☼	03/20/13 12:29	03/21/13 16:58	1
Beryllium	**0.35**	**J**	0.47	0.024	mg/Kg	☼	03/20/13 12:29	03/21/13 16:58	1
Cadmium	0.59	U	0.59	0.12	mg/Kg	☼	03/20/13 12:29	03/21/13 16:58	1
Calcium	**490**		59	24	mg/Kg	☼	03/20/13 12:29	03/21/13 16:58	1
Chromium	**24**		1.2	0.59	mg/Kg	☼	03/20/13 12:29	03/21/13 16:58	1
Cobalt	**1.8**		1.2	0.14	mg/Kg	☼	03/20/13 12:29	03/21/13 16:58	1
Copper	**9.9**		3.0	1.3	mg/Kg	☼	03/20/13 12:29	03/21/13 16:58	1
Iron	**21000**		24	8.3	mg/Kg	☼	03/20/13 12:29	03/21/13 16:58	1
Lead	**11**		1.2	0.63	mg/Kg	☼	03/20/13 12:29	03/21/13 16:58	1
Magnesium	**1100**		59	2.8	mg/Kg	☼	03/20/13 12:29	03/21/13 16:58	1
Manganese	**66**		1.2	0.35	mg/Kg	☼	03/20/13 12:29	03/21/13 16:58	1
Nickel	**5.0**		4.7	0.37	mg/Kg	☼	03/20/13 12:29	03/21/13 16:58	1
Potassium	**1300**		120	9.4	mg/Kg	☼	03/20/13 12:29	03/21/13 16:58	1
Selenium	3.0	U	3.0	1.2	mg/Kg	☼	03/20/13 12:29	03/21/13 16:58	1
Silver	1.2	U	1.2	0.11	mg/Kg	☼	03/20/13 12:29	03/21/13 16:58	1
Sodium	240	U	240	97	mg/Kg	☼	03/20/13 12:29	03/21/13 16:58	1
Thallium	**1.2**	**J**	3.0	1.2	mg/Kg	☼	03/20/13 12:29	03/21/13 16:58	1
Vanadium	**51**		1.2	0.28	mg/Kg	☼	03/20/13 12:29	03/21/13 16:58	1
Zinc	**21**		2.4	1.4	mg/Kg	☼	03/20/13 12:29	03/21/13 16:58	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.028**		0.024	0.010	mg/Kg	☼	03/18/13 11:25	03/20/13 19:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	1.2	U	1.2	0.37	mg/Kg	☼	03/18/13 10:55	03/20/13 12:23	1
Cyanide, Total	0.61	U	0.61	0.26	mg/Kg	☼	03/20/13 10:30	03/21/13 09:18	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-9-0-2-20130314-01
Date Collected: 03/14/13 17:15
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-6
Matrix: Solid
Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	41	U	41	8.9	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Benzene	**2.8**	**J**	4.1	0.59	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Bromobenzene	4.1	U	4.1	1.4	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Bromochloromethane	4.1	U	4.1	2.7	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Bromodichloromethane	4.1	U	4.1	0.79	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Bromoform	4.1	U	4.1	1.2	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Bromomethane	4.1	U	4.1	1.2	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
2-Butanone	20	U	20	1.9	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Carbon disulfide	4.1	U	4.1	0.89	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Carbon tetrachloride	4.1	U	4.1	0.67	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Chlorobenzene	4.1	U	4.1	0.78	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Chlorodibromomethane	4.1	U	4.1	1.4	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Chloroethane	4.1	U	4.1	2.2	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Chloroform	4.1	U	4.1	0.89	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Chloromethane	4.1	U	4.1	0.81	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
2-Chlorotoluene	4.1	U	4.1	1.6	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
4-Chlorotoluene	4.1	U	4.1	1.4	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
cis-1,2-Dichloroethene	4.1	U	4.1	1.1	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
cis-1,3-Dichloropropene	4.1	U	4.1	0.67	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Cyclohexane	**17**		8.1	1.1	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
1,2-Dibromo-3-Chloropropane	8.1	U	8.1	3.6	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
1,2-Dibromoethane	4.1	U	4.1	1.2	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Dibromomethane	4.1	U	4.1	1.4	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
1,2-Dichlorobenzene	4.1	U	4.1	1.1	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
1,3-Dichlorobenzene	4.1	U	4.1	1.3	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
1,4-Dichlorobenzene	4.1	U	4.1	0.60	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Dichlorodifluoromethane	4.1	U	4.1	0.76	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
1,1-Dichloroethane	4.1	U	4.1	0.89	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
1,2-Dichloroethane	4.1	U	4.1	0.89	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
1,1-Dichloroethene	4.1	U	4.1	1.2	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
1,2-Dichloropropane	4.1	U	4.1	0.70	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
2,2-Dichloropropane	4.1	U	4.1	0.89	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
1,3-Dichloropropane	4.1	U	4.1	1.5	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
1,1-Dichloropropene	4.1	U	4.1	0.77	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Ethylbenzene	**1.8**	**J**	4.1	1.1	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Hexachlorobutadiene	4.1	U	4.1	2.5	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
2-Hexanone	20	U	20	2.7	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Isopropylbenzene	4.1	U	4.1	1.5	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Methyl acetate	8.1	U	8.1	4.1	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Methylcyclohexane	**39**		8.1	0.70	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Methylene Chloride	4.1	U	4.1	0.79	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
4-Methyl-2-pentanone	20	U	20	3.4	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Methyl tert-butyl ether	8.1	U	8.1	0.81	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Naphthalene	**16**		4.1	0.97	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
n-Butylbenzene	4.1	U	4.1	1.9	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
N-Propylbenzene	4.1	U	4.1	2.2	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
p-Isopropyltoluene	4.1	U	4.1	1.8	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
sec-Butylbenzene	4.1	U	4.1	1.7	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Styrene	4.1	U	4.1	0.75	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500

Client Sample ID: DDSB-9-0-2-20130314-01
Date Collected: 03/14/13 17:15
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-6
Matrix: Solid
Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	4.1	U	4.1	1.5	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
1,1,2,2-Tetrachloroethane	4.1	U	4.1	1.3	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
1,1,1,2-Tetrachloroethane	4.1	U	4.1	1.9	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Tetrachloroethene	4.1	U	4.1	1.5	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Toluene	**17**		4.1	0.68	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
trans-1,2-Dichloroethene	4.1	U	4.1	0.51	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
trans-1,3-Dichloropropene	4.1	U	4.1	0.71	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
1,2,4-Trichlorobenzene	4.1	U	4.1	0.72	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
1,2,3-Trichlorobenzene	4.1	U	4.1	1.3	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
1,1,1-Trichloroethane	4.1	U	4.1	0.48	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
1,1,2-Trichloroethane	4.1	U	4.1	1.1	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Trichloroethene	4.1	U	4.1	1.1	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Trichlorofluoromethane	4.1	U	4.1	0.97	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
1,2,3-Trichloropropane	4.1	U	4.1	1.9	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
1,1,2-Trichloro-1,2,2-trifluoroethane	4.1	U	4.1	1.1	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
1,2,4-Trimethylbenzene	**6.3**		4.1	1.1	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
1,3,5-Trimethylbenzene	**2.1**	**J**	4.1	1.4	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Vinyl chloride	4.1	U	4.1	1.2	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500
Xylenes, Total	**24**		8.1	0.89	mg/Kg	☼	03/21/13 14:22	03/24/13 15:13	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*65 - 130*	*03/21/13 14:22*	*03/24/13 15:13*	*500*
Dibromofluoromethane	*105*		*65 - 130*	*03/21/13 14:22*	*03/24/13 15:13*	*500*
Toluene-d8 (Surr)	*94*		*65 - 130*	*03/21/13 14:22*	*03/24/13 15:13*	*500*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.037	U	0.037	0.011	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Acenaphthylene	0.037	U	0.037	0.0085	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Acetophenone	0.37	U	0.37	0.067	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
2-Acetylaminofluorene	0.19	U	0.19	0.034	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
alpha,alpha-Dimethyl phenethylamine	1.5	U	1.5	0.44	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
4-Aminobiphenyl	0.19	U	0.19	0.075	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Aniline	0.75	U	0.75	0.34	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Anthracene	**0.10**		0.037	0.0087	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Aramite	0.19	U	0.19	0.037	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Benzenethiol	0.75	U	0.75	0.37	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Benzidine	0.75	U *	0.75	0.37	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Benzo[a]anthracene	**0.37**		0.037	0.0078	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Benzo[a]pyrene	**0.21**		0.037	0.0068	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Benzo[b]fluoranthene	**0.28**		0.037	0.0072	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Benzo[g,h,i]perylene	**0.18**		0.037	0.013	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Benzoic acid	**0.71**	**J ***	1.9	0.51	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Benzo[k]fluoranthene	**0.13**		0.037	0.0089	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Benzyl alcohol	0.37	U	0.37	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Bis(2-chloroethoxy)methane	0.19	U	0.19	0.041	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Bis(2-chloroethyl)ether	0.19	U	0.19	0.055	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Bis(2-ethylhexyl) phthalate	0.19	U	0.19	0.049	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
4-Bromophenyl phenyl ether	0.19	U	0.19	0.042	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Butyl benzyl phthalate	0.19	U	0.19	0.047	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1

Client Sample ID: DDSB-9-0-2-20130314-01
Date Collected: 03/14/13 17:15
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-6
Matrix: Solid
Percent Solids: 88.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	0.37	U	0.37	0.086	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
4-Chloroaniline	0.75	U	0.75	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
4-Chloro-3-methylphenol	0.37	U	0.37	0.18	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
2-Chloronaphthalene	0.19	U	0.19	0.042	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
2-Chlorophenol	0.19	U	0.19	0.053	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
4-Chlorophenyl phenyl ether	0.19	U	0.19	0.059	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Chrysene	**0.48**		0.037	0.0084	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Diallate	0.19	U	0.19	0.037	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Dibenz(a,h)anthracene	**0.073**		0.037	0.010	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Dibenz[a,j]acridine	0.19	U	0.19	0.020	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Dibenzofuran	**1.6**		0.19	0.045	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
1,2-Dichlorobenzene	0.19	U	0.19	0.041	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
1,3-Dichlorobenzene	0.19	U	0.19	0.039	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
1,4-Dichlorobenzene	0.19	U	0.19	0.039	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
3,3'-Dichlorobenzidine	0.19	U	0.19	0.031	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
2,4-Dichlorophenol	0.37	U	0.37	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
2,6-Dichlorophenol	0.19	U	0.19	0.053	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Diethyl phthalate	0.19	U	0.19	0.062	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Diethylstilbestrol	0.75	U	0.75	0.093	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Dimethoate	0.37	U	0.37	0.083	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
7,12-Dimethylbenz(a)anthracene	0.19	U	0.19	0.045	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
3,3'-Dimethylbenzidine	0.75	U	0.75	0.19	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
2,4-Dimethylphenol	0.37	U	0.37	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Dimethyl phthalate	0.19	U	0.19	0.046	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Di-n-butyl phthalate	0.19	U	0.19	0.047	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
1,4-Dinitrobenzene	0.19	U	0.19	0.029	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
4,6-Dinitro-2-methylphenol	0.37	U	0.37	0.090	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
2,4-Dinitrophenol	0.75	U	0.75	0.19	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
2,4-Dinitrotoluene	0.19	U	0.19	0.057	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
2,6-Dinitrotoluene	0.19	U	0.19	0.044	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Di-n-octyl phthalate	0.19	U	0.19	0.075	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Dinoseb	0.37	U *	0.37	0.096	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
1,4-Dioxane	0.75	U	0.75	0.25	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Diphenylamine	0.19	U	0.19	0.043	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
1,2-Diphenylhydrazine	0.19	U	0.19	0.047	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Disulfoton	0.37	U	0.37	0.056	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Ethyl 4,4'-Dichlorobenzilate	0.19	U	0.19	0.023	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Ethyl methanesulfonate	0.19	U	0.19	0.021	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Ethyl Parathion	0.37	U	0.37	0.10	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Famphur	0.37	U	0.37	0.060	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Fluoranthene	**0.49**		0.037	0.015	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Fluorene	0.037	U	0.037	0.0084	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Hexachlorobenzene	0.075	U	0.075	0.0073	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Hexachlorobutadiene	0.19	U	0.19	0.049	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Hexachlorocyclopentadiene	0.75	U	0.75	0.17	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Hexachloroethane	0.19	U	0.19	0.040	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Hexachlorophene	3.7	U	3.7	1.4	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Hexachloropropene	0.37	U	0.37	0.15	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Indeno[1,2,3-cd]pyrene	**0.084**		0.037	0.013	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1

Client Sample ID: DDSB-9-0-2-20130314-01
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Lab Sample ID: 680-88399-6
Matrix: Solid
Percent Solids: 88.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	0.19	U	0.19	0.041	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Isosafrole	0.19	U	0.19	0.020	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Kepone	0.75	U	0.75	0.37	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Malathion	0.37	U	0.37	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
m-Dinitrobenzene	0.19	U	0.19	0.035	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Methapyrilene	1.5	U	1.5	0.19	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
3-Methylcholanthrene	0.19	U	0.19	0.016	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Methyl methanesulfonate	0.19	U	0.19	0.030	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Methyl parathion	0.37	U	0.37	0.10	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
2-Methylphenol	0.19	U	0.19	0.049	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
3 & 4 Methylphenol	0.19	U	0.19	0.070	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
1,4-Naphthoquinone	0.75	U	0.75	0.37	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
1-Naphthylamine	0.19	U	0.19	0.029	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
2-Naphthylamine	0.19	U	0.19	0.051	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
2-Nitroaniline	0.19	U	0.19	0.067	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
3-Nitroaniline	0.37	U	0.37	0.072	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
4-Nitroaniline	0.37	U	0.37	0.076	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Nitrobenzene	0.037	U	0.037	0.012	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
5-Nitro-o-toluidine	0.19	U	0.19	0.035	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
2-Nitrophenol	0.37	U	0.37	0.058	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
4-Nitrophenol	0.75	U	0.75	0.20	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
4-Nitroquinoline-1-oxide	0.75	U	0.75	0.35	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
N-Nitrosodiethylamine	0.37	U	0.37	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
N-Nitrosodimethylamine	0.75	U	0.75	0.41	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
N-Nitrosodi-n-butylamine	0.19	U	0.19	0.067	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
N-Nitrosodi-n-propylamine	0.19	U	0.19	0.047	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
N-Nitrosodiphenylamine	0.19	U	0.19	0.050	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
N-Nitrosomethylethylamine	0.75	U	0.75	0.30	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
N-Nitrosomorpholine	0.19	U	0.19	0.035	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
N-Nitrosopiperidine	0.37	U	0.37	0.034	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
N-Nitrosopyrrolidine	0.19	U	0.19	0.043	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
o,o',o''-Triethylphosphorothioate	0.37	U	0.37	0.057	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
o-Toluidine	0.19	U	0.19	0.036	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
2,2'-oxybis[1-chloropropane]	0.19	U	0.19	0.041	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
p-Dimethylamino azobenzene	0.19	U	0.19	0.020	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Pentachlorobenzene	0.19	U	0.19	0.047	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Pentachloronitrobenzene	0.19	U	0.19	0.026	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Pentachlorophenol	0.75	U	0.75	0.19	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Phenacetin	0.19	U	0.19	0.039	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Phenanthrene	**2.2**		0.037	0.016	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Phenol	0.19	U	0.19	0.059	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Phorate	0.37	U	0.37	0.079	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
2-Picoline	0.37	U	0.37	0.14	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
p-Phenylene diamine	1.5	U	1.5	0.078	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Pronamide	0.19	U	0.19	0.030	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Pyrene	**0.46**		0.037	0.013	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Pyridine	0.75	U	0.75	0.44	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Safrole	0.19	U	0.19	0.018	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Sulfotepp	0.37	U	0.37	0.074	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-9-0-2-20130314-01
Date Collected: 03/14/13 17:15
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-6
Matrix: Solid
Percent Solids: 88.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sym-Trinitrobenzene	0.75	U	0.75	0.38	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
1,2,4,5-Tetrachlorobenzene	0.19	U	0.19	0.044	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
2,3,4,6-Tetrachlorophenol	0.19	U	0.19	0.051	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
Thionazin	0.37	U	0.37	0.083	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
1,2,4-Trichlorobenzene	0.19	U	0.19	0.042	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
2,4,5-Trichlorophenol	0.37	U	0.37	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1
2,4,6-Trichlorophenol	0.37	U	0.37	0.047	mg/Kg	☼	03/18/13 16:41	03/25/13 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*30 - 119*	*03/18/13 16:41*	*03/25/13 19:24*	*1*
2-Fluorophenol	*57*		*30 - 110*	*03/18/13 16:41*	*03/25/13 19:24*	*1*
Nitrobenzene-d5	*58*		*30 - 115*	*03/18/13 16:41*	*03/25/13 19:24*	*1*
Phenol-d5	*65*		*31 - 110*	*03/18/13 16:41*	*03/25/13 19:24*	*1*
Terphenyl-d14	*73*		*36 - 134*	*03/18/13 16:41*	*03/25/13 19:24*	*1*
2,4,6-Tribromophenol	*72*		*35 - 137*	*03/18/13 16:41*	*03/25/13 19:24*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**8.3**		0.93	0.24	mg/Kg	☼	03/18/13 16:41	03/28/13 19:41	5
Naphthalene	**5.9**		0.18	0.036	mg/Kg	☼	03/18/13 16:41	03/28/13 19:41	5

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.019	U	0.019	0.0077	mg/Kg	☼	03/18/13 18:27	03/20/13 23:01	10
alpha-BHC	0.019	U	0.019	0.0047	mg/Kg	☼	03/18/13 18:27	03/20/13 23:01	10
beta-BHC	0.019	U	0.019	0.0057	mg/Kg	☼	03/18/13 18:27	03/20/13 23:01	10
Chlordane (technical)	0.074	U	0.074	0.036	mg/Kg	☼	03/18/13 18:27	03/20/13 23:01	10
4,4'-DDD	0.019	U	0.019	0.0037	mg/Kg	☼	03/18/13 18:27	03/20/13 23:01	10
4,4'-DDE	0.019	U	0.019	0.0031	mg/Kg	☼	03/18/13 18:27	03/20/13 23:01	10
4,4'-DDT	0.019	U	0.019	0.0097	mg/Kg	☼	03/18/13 18:27	03/20/13 23:01	10
delta-BHC	0.019	U	0.019	0.0058	mg/Kg	☼	03/18/13 18:27	03/20/13 23:01	10
Dieldrin	0.019	U	0.019	0.0025	mg/Kg	☼	03/18/13 18:27	03/20/13 23:01	10
Endosulfan I	0.019	U	0.019	0.0081	mg/Kg	☼	03/18/13 18:27	03/20/13 23:01	10
Endosulfan II	0.019	U	0.019	0.0030	mg/Kg	☼	03/18/13 18:27	03/20/13 23:01	10
Endosulfan sulfate	0.019	U	0.019	0.0034	mg/Kg	☼	03/18/13 18:27	03/20/13 23:01	10
Endrin	0.019	U	0.019	0.0026	mg/Kg	☼	03/18/13 18:27	03/20/13 23:01	10
Endrin aldehyde	0.019	U	0.019	0.0031	mg/Kg	☼	03/18/13 18:27	03/20/13 23:01	10
Endrin ketone	0.019	U	0.019	0.0042	mg/Kg	☼	03/18/13 18:27	03/20/13 23:01	10
gamma-BHC (Lindane)	0.019	U	0.019	0.0040	mg/Kg	☼	03/18/13 18:27	03/20/13 23:01	10
Heptachlor	0.019	U	0.019	0.0077	mg/Kg	☼	03/18/13 18:27	03/20/13 23:01	10
Heptachlor epoxide	0.019	U	0.019	0.0066	mg/Kg	☼	03/18/13 18:27	03/20/13 23:01	10
Isodrin	0.019	U	0.019	0.0086	mg/Kg	☼	03/18/13 18:27	03/20/13 23:01	10
Methoxychlor	0.092	U	0.092	0.0036	mg/Kg	☼	03/18/13 18:27	03/20/13 23:01	10
Toxaphene	0.18	U	0.18	0.078	mg/Kg	☼	03/18/13 18:27	03/20/13 23:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*30*	*X*	*56 - 128*	*03/18/13 18:27*	*03/20/13 23:01*	*10*
Tetrachloro-m-xylene	*98*		*45 - 112*	*03/18/13 18:27*	*03/20/13 23:01*	*10*

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-9-0-2-20130314-01
Date Collected: 03/14/13 17:15
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-6
Matrix: Solid
Percent Solids: 88.3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.018	U	0.018	0.0065	mg/Kg	☼	03/18/13 18:27	03/20/13 18:19	1
PCB-1221	0.018	U	0.018	0.0081	mg/Kg	☼	03/18/13 18:27	03/20/13 18:19	1
PCB-1232	0.018	U	0.018	0.0080	mg/Kg	☼	03/18/13 18:27	03/20/13 18:19	1
PCB-1242	0.018	U	0.018	0.0061	mg/Kg	☼	03/18/13 18:27	03/20/13 18:19	1
PCB-1248	0.018	U	0.018	0.0073	mg/Kg	☼	03/18/13 18:27	03/20/13 18:19	1
PCB-1254	0.018	U	0.018	0.0040	mg/Kg	☼	03/18/13 18:27	03/20/13 18:19	1
PCB-1260	0.018	U	0.018	0.0091	mg/Kg	☼	03/18/13 18:27	03/20/13 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*50 - 116*	*03/18/13 18:27*	*03/20/13 18:19*	*1*
DCB Decachlorobiphenyl	*79*		*48 - 142*	*03/18/13 18:27*	*03/20/13 18:19*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.074	U	0.074	0.0032	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Azinphos-methyl	0.074	U	0.074	0.017	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Bolstar	0.037	U	0.037	0.0052	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Carbophenthion	0.074	U	0.074	0.0059	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Chlorpyrifos	0.037	U	0.037	0.0076	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Chlorpyrifos-methyl	0.037	U	0.037	0.013	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Coumaphos	0.37	U	0.37	0.025	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Demeton-O	0.093	U	0.093	0.0029	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Demeton-S	0.093	U	0.093	0.0062	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Demeton, Total	0.093	U	0.093	0.0086	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Diazinon	0.037	U	0.037	0.0064	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Dichlofenthion	0.037	U	0.037	0.0047	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Dichlorvos	0.074	U	0.074	0.0071	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Dimethoate	0.074	U	0.074	0.0098	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Disulfoton	0.074	U	0.074	0.018	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
EPN	0.037	U	0.037	0.0050	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Ethion	0.019	U	0.019	0.0059	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Ethoprop	0.019	U	0.019	0.0047	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Ethyl Parathion	0.037	U	0.037	0.0061	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Famphur	0.074	U	0.074	0.0093	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Fensulfothion	0.37	U	0.37	0.013	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Fenthion	**0.0095**	**J p**	0.037	0.0052	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Malathion	0.037	U	0.037	0.0091	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Merphos	0.037	U	0.037	0.012	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Methyl parathion	0.019	U	0.019	0.0060	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Mevinphos	0.074	U	0.074	0.0051	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Monochrotophos	0.37	U	0.37	0.051	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Naled	0.37	U	0.37	0.025	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Phorate	0.037	U	0.037	0.0060	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Ronnel	0.037	U	0.037	0.0047	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Simazine	0.074	U	0.074	0.0036	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Stirophos	0.037	U	0.037	0.0071	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Sulfotepp	0.019	U	0.019	0.0096	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Terbufos	0.019	U	0.019	0.018	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Thionazin	0.037	U	0.037	0.011	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1
Tokuthion	0.037	U	0.037	0.0060	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-9-0-2-20130314-01
Date Collected: 03/14/13 17:15
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-6
Matrix: Solid
Percent Solids: 88.3

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloronate	0.37	U	0.37	0.0085	mg/Kg	☼	03/18/13 14:54	04/01/13 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate (TPP)	*84*		*35 - 134*	*03/18/13 14:54*	*04/01/13 14:46*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7000**		45	23	mg/Kg	☼	03/21/13 11:26	03/22/13 23:40	1
Antimony	4.5	U	4.5	1.2	mg/Kg	☼	03/21/13 11:26	03/22/13 23:40	1
Arsenic	**11**		4.5	1.3	mg/Kg	☼	03/21/13 11:26	03/22/13 23:40	1
Barium	**83**		2.3	0.68	mg/Kg	☼	03/21/13 11:26	03/22/13 23:40	1
Beryllium	**0.51**	**J**	0.91	0.045	mg/Kg	☼	03/21/13 11:26	03/22/13 23:40	1
Cadmium	1.1	U	1.1	0.23	mg/Kg	☼	03/21/13 11:26	03/22/13 23:40	1
Calcium	**510**		110	45	mg/Kg	☼	03/21/13 11:26	03/22/13 23:40	1
Chromium	**11**		2.3	1.1	mg/Kg	☼	03/21/13 11:26	03/22/13 23:40	1
Cobalt	**2.4**		2.3	0.27	mg/Kg	☼	03/21/13 11:26	03/22/13 23:40	1
Copper	**18**		5.7	2.5	mg/Kg	☼	03/21/13 11:26	03/22/13 23:40	1
Iron	**12000**		45	16	mg/Kg	☼	03/21/13 11:26	03/22/13 23:40	1
Lead	**52**		2.3	1.2	mg/Kg	☼	03/21/13 11:26	03/22/13 23:40	1
Magnesium	**160**		110	5.4	mg/Kg	☼	03/21/13 11:26	03/22/13 23:40	1
Manganese	**100**		2.3	0.68	mg/Kg	☼	03/21/13 11:26	03/22/13 23:40	1
Nickel	**5.9**	**J**	9.1	0.70	mg/Kg	☼	03/21/13 11:26	03/22/13 23:40	1
Potassium	**390**		230	18	mg/Kg	☼	03/21/13 11:26	03/22/13 23:40	1
Selenium	5.7	U	5.7	2.3	mg/Kg	☼	03/21/13 11:26	03/22/13 23:40	1
Silver	2.3	U	2.3	0.22	mg/Kg	☼	03/21/13 11:26	03/22/13 23:40	1
Sodium	450	U	450	190	mg/Kg	☼	03/21/13 11:26	03/22/13 23:40	1
Thallium	5.7	U	5.7	2.2	mg/Kg	☼	03/21/13 11:26	03/22/13 23:40	1
Vanadium	**23**		2.3	0.54	mg/Kg	☼	03/21/13 11:26	03/22/13 23:40	1
Zinc	**20**		4.5	2.7	mg/Kg	☼	03/21/13 11:26	03/22/13 23:40	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.13**		0.021	0.0084	mg/Kg	☼	03/18/13 11:25	03/20/13 19:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	1.1	U	1.1	0.33	mg/Kg	☼	03/18/13 10:55	03/20/13 12:23	1
Cyanide, Total	0.54	U	0.54	0.23	mg/Kg	☼	03/20/13 10:30	03/21/13 09:19	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-9-10-12-20130314-01
Date Collected: 03/14/13 17:40
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-7
Matrix: Solid
Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.048	U	0.048	0.011	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Benzene	0.0048	U	0.0048	0.00070	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Bromobenzene	0.0048	U	0.0048	0.0016	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Bromochloromethane	0.0048	U	0.0048	0.0032	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Bromodichloromethane	0.0048	U	0.0048	0.00093	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Bromoform	0.0048	U	0.0048	0.0014	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Bromomethane	0.0048	U	0.0048	0.0014	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
2-Butanone	0.024	U	0.024	0.0023	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Carbon disulfide	0.0048	U	0.0048	0.0011	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Carbon tetrachloride	0.0048	U	0.0048	0.00080	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Chlorobenzene	0.0048	U	0.0048	0.00092	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Chlorodibromomethane	0.0048	U	0.0048	0.0016	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Chloroethane	0.0048	U	0.0048	0.0026	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Chloroform	0.0048	U	0.0048	0.0011	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Chloromethane	0.0048	U	0.0048	0.00096	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
2-Chlorotoluene	0.0048	U	0.0048	0.0019	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
4-Chlorotoluene	0.0048	U	0.0048	0.0016	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
cis-1,2-Dichloroethene	0.0048	U	0.0048	0.0013	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
cis-1,3-Dichloropropene	0.0048	U	0.0048	0.00080	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Cyclohexane	0.0096	U	0.0096	0.0012	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
1,2-Dibromo-3-Chloropropane	0.0096	U	0.0096	0.0042	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
1,2-Dibromoethane	0.0048	U	0.0048	0.0014	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Dibromomethane	0.0048	U	0.0048	0.0016	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
1,2-Dichlorobenzene	0.0048	U	0.0048	0.0012	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
1,3-Dichlorobenzene	0.0048	U	0.0048	0.0015	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
1,4-Dichlorobenzene	0.0048	U	0.0048	0.00071	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Dichlorodifluoromethane	0.0048	U	0.0048	0.00090	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
1,1-Dichloroethane	0.0048	U	0.0048	0.0011	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
1,2-Dichloroethane	0.0048	U	0.0048	0.0011	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
1,1-Dichloroethene	0.0048	U	0.0048	0.0014	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
1,2-Dichloropropane	0.0048	U	0.0048	0.00083	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
2,2-Dichloropropane	0.0048	U	0.0048	0.0011	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
1,3-Dichloropropane	0.0048	U	0.0048	0.0017	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
1,1-Dichloropropene	0.0048	U	0.0048	0.00091	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Ethylbenzene	0.0048	U	0.0048	0.0012	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Hexachlorobutadiene	0.0048	U	0.0048	0.0030	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
2-Hexanone	0.024	U	0.024	0.0032	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Isopropylbenzene	0.0048	U	0.0048	0.0018	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Methyl acetate	0.0096	U	0.0096	0.0048	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Methylcyclohexane	0.0096	U	0.0096	0.00083	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Methylene Chloride	0.0048	U	0.0048	0.00094	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
4-Methyl-2-pentanone	0.024	U	0.024	0.0040	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Methyl tert-butyl ether	0.0096	U	0.0096	0.00096	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Naphthalene	0.0048	U	0.0048	0.0012	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
n-Butylbenzene	0.0048	U	0.0048	0.0023	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
N-Propylbenzene	0.0048	U	0.0048	0.0026	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
p-Isopropyltoluene	0.0048	U	0.0048	0.0021	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
sec-Butylbenzene	0.0048	U	0.0048	0.0020	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Styrene	0.0048	U	0.0048	0.00089	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1

Client Sample ID: DDSB-9-10-12-20130314-01
Date Collected: 03/14/13 17:40
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-7
Matrix: Solid
Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.0048	U	0.0048	0.0017	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
1,1,2,2-Tetrachloroethane	0.0048	U	0.0048	0.0015	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
1,1,1,2-Tetrachloroethane	0.0048	U	0.0048	0.0023	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Tetrachloroethene	0.0048	U	0.0048	0.0018	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Toluene	0.0048	U	0.0048	0.00081	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
trans-1,2-Dichloroethene	0.0048	U	0.0048	0.00061	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
trans-1,3-Dichloropropene	0.0048	U	0.0048	0.00084	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
1,2,4-Trichlorobenzene	0.0048	U	0.0048	0.00086	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
1,2,3-Trichlorobenzene	0.0048	U	0.0048	0.0015	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
1,1,1-Trichloroethane	0.0048	U	0.0048	0.00057	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
1,1,2-Trichloroethane	0.0048	U	0.0048	0.0012	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Trichloroethene	0.0048	U	0.0048	0.0012	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Trichlorofluoromethane	0.0048	U	0.0048	0.0012	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
1,2,3-Trichloropropane	0.0048	U	0.0048	0.0023	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0048	U	0.0048	0.0012	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
1,2,4-Trimethylbenzene	0.0048	U	0.0048	0.0013	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
1,3,5-Trimethylbenzene	0.0048	U	0.0048	0.0016	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Vinyl chloride	0.0048	U	0.0048	0.0014	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1
Xylenes, Total	0.0096	U	0.0096	0.0011	mg/Kg	☼	03/21/13 14:22	03/23/13 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*65 - 130*	*03/21/13 14:22*	*03/23/13 22:46*	*1*
Dibromofluoromethane	*96*		*65 - 130*	*03/21/13 14:22*	*03/23/13 22:46*	*1*
Toluene-d8 (Surr)	*96*		*65 - 130*	*03/21/13 14:22*	*03/23/13 22:46*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.040	U	0.040	0.012	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Acenaphthylene	0.040	U	0.040	0.0092	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Acetophenone	0.40	U	0.40	0.072	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
2-Acetylaminofluorene	0.20	U	0.20	0.037	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
alpha,alpha-Dimethyl phenethylamine	1.6	U	1.6	0.47	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
4-Aminobiphenyl	0.20	U	0.20	0.081	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Aniline	0.80	U	0.80	0.36	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Anthracene	0.040	U	0.040	0.0094	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Aramite	0.20	U	0.20	0.040	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Benzenethiol	0.80	U	0.80	0.40	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Benzidine	0.80	U	0.80	0.40	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Benzo[a]anthracene	0.040	U	0.040	0.0084	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Benzo[a]pyrene	0.040	U	0.040	0.0073	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Benzo[b]fluoranthene	0.040	U	0.040	0.0077	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Benzo[g,h,i]perylene	0.040	U	0.040	0.013	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Benzoic acid	2.0	U	2.0	0.55	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Benzo[k]fluoranthene	0.040	U	0.040	0.0095	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Benzyl alcohol	0.40	U	0.40	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Bis(2-chloroethoxy)methane	0.20	U	0.20	0.044	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Bis(2-chloroethyl)ether	0.20	U	0.20	0.059	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Bis(2-ethylhexyl) phthalate	0.20	U	0.20	0.053	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
4-Bromophenyl phenyl ether	0.20	U	0.20	0.045	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Butyl benzyl phthalate	0.20	U	0.20	0.050	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-9-10-12-20130314-01
Date Collected: 03/14/13 17:40
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-7
Matrix: Solid
Percent Solids: 81.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	0.40	U	0.40	0.092	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
4-Chloroaniline	0.80	U	0.80	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
4-Chloro-3-methylphenol	0.40	U	0.40	0.19	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
2-Chloronaphthalene	0.20	U	0.20	0.045	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
2-Chlorophenol	0.20	U	0.20	0.057	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
4-Chlorophenyl phenyl ether	0.20	U	0.20	0.063	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Chrysene	0.040	U	0.040	0.0090	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Diallate	0.20	U	0.20	0.040	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Dibenz(a,h)anthracene	0.040	U	0.040	0.011	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Dibenz[a,j]acridine	0.20	U	0.20	0.022	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Dibenzofuran	0.20	U	0.20	0.048	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
1,2-Dichlorobenzene	0.20	U	0.20	0.044	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
1,3-Dichlorobenzene	0.20	U	0.20	0.042	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
1,4-Dichlorobenzene	0.20	U	0.20	0.042	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
3,3'-Dichlorobenzidine	0.20	U	0.20	0.033	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
2,4-Dichlorophenol	0.40	U	0.40	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
2,6-Dichlorophenol	0.20	U	0.20	0.057	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Diethyl phthalate	0.20	U	0.20	0.067	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Diethylstilbestrol	0.80	U	0.80	0.099	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Dimethoate	0.40	U	0.40	0.090	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
7,12-Dimethylbenz(a)anthracene	0.20	U	0.20	0.049	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
3,3'-Dimethylbenzidine	0.80	U	0.80	0.21	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
2,4-Dimethylphenol	0.40	U	0.40	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Dimethyl phthalate	0.20	U	0.20	0.050	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Di-n-butyl phthalate	0.20	U	0.20	0.050	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
1,4-Dinitrobenzene	0.20	U	0.20	0.031	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
4,6-Dinitro-2-methylphenol	0.40	U	0.40	0.097	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
2,4-Dinitrophenol	0.80	U	0.80	0.20	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
2,4-Dinitrotoluene	0.20	U	0.20	0.061	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
2,6-Dinitrotoluene	0.20	U	0.20	0.047	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Di-n-octyl phthalate	0.20	U	0.20	0.081	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Dinoseb	0.40	U	0.40	0.10	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
1,4-Dioxane	0.80	U	0.80	0.27	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Diphenylamine	0.20	U	0.20	0.046	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
1,2-Diphenylhydrazine	0.20	U	0.20	0.051	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Disulfoton	0.40	U	0.40	0.060	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Ethyl 4,4'-Dichlorobenzilate	0.20	U	0.20	0.025	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Ethyl methanesulfonate	0.20	U	0.20	0.023	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Ethyl Parathion	0.40	U	0.40	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Famphur	0.40	U	0.40	0.065	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Fluoranthene	0.040	U	0.040	0.016	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Fluorene	0.040	U	0.040	0.0091	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Hexachlorobenzene	0.080	U	0.080	0.0079	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Hexachlorobutadiene	0.20	U	0.20	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Hexachlorocyclopentadiene	0.80	U	0.80	0.18	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Hexachloroethane	0.20	U	0.20	0.043	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Hexachlorophene	4.0	U	4.0	1.5	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Hexachloropropene	0.40	U	0.40	0.16	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Indeno[1,2,3-cd]pyrene	0.040	U	0.040	0.013	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-9-10-12-20130314-01
Date Collected: 03/14/13 17:40
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-7
Matrix: Solid
Percent Solids: 81.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	0.20	U	0.20	0.044	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Isosafrole	0.20	U	0.20	0.021	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Kepone	0.80	U	0.80	0.40	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Malathion	0.40	U	0.40	0.12	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
m-Dinitrobenzene	0.20	U	0.20	0.038	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Methapyrilene	1.6	U	1.6	0.21	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
3-Methylcholanthrene	0.20	U	0.20	0.017	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Methyl methanesulfonate	0.20	U	0.20	0.032	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
2-Methylnaphthalene	0.20	U	0.20	0.052	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Methyl parathion	0.40	U	0.40	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
2-Methylphenol	0.20	U	0.20	0.053	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
3 & 4 Methylphenol	0.20	U	0.20	0.076	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Naphthalene	0.040	U	0.040	0.0077	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
1,4-Naphthoquinone	0.80	U	0.80	0.40	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
1-Naphthylamine	0.20	U	0.20	0.031	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
2-Naphthylamine	0.20	U	0.20	0.054	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
2-Nitroaniline	0.20	U	0.20	0.072	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
3-Nitroaniline	0.40	U	0.40	0.077	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
4-Nitroaniline	0.40	U	0.40	0.082	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Nitrobenzene	0.040	U	0.040	0.012	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
5-Nitro-o-toluidine	0.20	U	0.20	0.038	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
2-Nitrophenol	0.40	U	0.40	0.063	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
4-Nitrophenol	0.80	U	0.80	0.21	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
4-Nitroquinoline-1-oxide	0.80	U	0.80	0.38	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
N-Nitrosodiethylamine	0.40	U	0.40	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
N-Nitrosodimethylamine	0.80	U	0.80	0.44	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
N-Nitrosodi-n-butylamine	0.20	U	0.20	0.071	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
N-Nitrosodi-n-propylamine	0.20	U	0.20	0.051	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
N-Nitrosodiphenylamine	0.20	U	0.20	0.054	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
N-Nitrosomethylethylamine	0.80	U	0.80	0.33	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
N-Nitrosomorpholine	0.20	U	0.20	0.037	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
N-Nitrosopiperidine	0.40	U	0.40	0.037	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
N-Nitrosopyrrolidine	0.20	U	0.20	0.046	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
o,o',o''-Triethylphosphorothioate	0.40	U	0.40	0.061	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
o-Toluidine	0.20	U	0.20	0.039	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
2,2'-oxybis[1-chloropropane]	0.20	U	0.20	0.044	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
p-Dimethylamino azobenzene	0.20	U	0.20	0.021	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Pentachlorobenzene	0.20	U	0.20	0.050	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Pentachloronitrobenzene	0.20	U	0.20	0.028	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Pentachlorophenol	0.80	U	0.80	0.20	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Phenacetin	0.20	U	0.20	0.041	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Phenanthrene	0.040	U	0.040	0.017	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Phenol	0.20	U	0.20	0.063	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Phorate	0.40	U	0.40	0.084	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
2-Picoline	0.40	U	0.40	0.15	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
p-Phenylene diamine	1.6	U	1.6	0.084	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Pronamide	0.20	U	0.20	0.032	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Pyrene	0.040	U	0.040	0.014	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Pyridine	0.80	U	0.80	0.47	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1

Client Sample ID: DDSB-9-10-12-20130314-01
Date Collected: 03/14/13 17:40
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-7
Matrix: Solid
Percent Solids: 81.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole	0.20	U	0.20	0.019	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Sulfotepp	0.40	U	0.40	0.080	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
sym-Trinitrobenzene	0.80	U	0.80	0.41	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
1,2,4,5-Tetrachlorobenzene	0.20	U	0.20	0.047	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
2,3,4,6-Tetrachlorophenol	0.20	U	0.20	0.055	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
Thionazin	0.40	U	0.40	0.089	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
1,2,4-Trichlorobenzene	0.20	U	0.20	0.045	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
2,4,5-Trichlorophenol	0.40	U	0.40	0.11	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1
2,4,6-Trichlorophenol	0.40	U	0.40	0.050	mg/Kg	☼	03/18/13 16:41	03/25/13 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*53*		*30 - 119*	*03/18/13 16:41*	*03/25/13 19:41*	*1*
2-Fluorophenol	*57*		*30 - 110*	*03/18/13 16:41*	*03/25/13 19:41*	*1*
Nitrobenzene-d5	*55*		*30 - 115*	*03/18/13 16:41*	*03/25/13 19:41*	*1*
Phenol-d5	*54*		*31 - 110*	*03/18/13 16:41*	*03/25/13 19:41*	*1*
Terphenyl-d14	*71*		*36 - 134*	*03/18/13 16:41*	*03/25/13 19:41*	*1*
2,4,6-Tribromophenol	*75*		*35 - 137*	*03/18/13 16:41*	*03/25/13 19:41*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.021	U	0.021	0.0084	mg/Kg	☼	03/18/13 18:27	03/20/13 23:21	10
alpha-BHC	0.021	U	0.021	0.0052	mg/Kg	☼	03/18/13 18:27	03/20/13 23:21	10
beta-BHC	0.021	U	0.021	0.0063	mg/Kg	☼	03/18/13 18:27	03/20/13 23:21	10
Chlordane (technical)	0.082	U	0.082	0.040	mg/Kg	☼	03/18/13 18:27	03/20/13 23:21	10
4,4'-DDD	0.021	U	0.021	0.0041	mg/Kg	☼	03/18/13 18:27	03/20/13 23:21	10
4,4'-DDE	0.021	U	0.021	0.0034	mg/Kg	☼	03/18/13 18:27	03/20/13 23:21	10
4,4'-DDT	0.021	U	0.021	0.011	mg/Kg	☼	03/18/13 18:27	03/20/13 23:21	10
delta-BHC	0.021	U	0.021	0.0064	mg/Kg	☼	03/18/13 18:27	03/20/13 23:21	10
Dieldrin	0.021	U	0.021	0.0028	mg/Kg	☼	03/18/13 18:27	03/20/13 23:21	10
Endosulfan I	0.021	U	0.021	0.0089	mg/Kg	☼	03/18/13 18:27	03/20/13 23:21	10
Endosulfan II	0.021	U	0.021	0.0033	mg/Kg	☼	03/18/13 18:27	03/20/13 23:21	10
Endosulfan sulfate	0.021	U	0.021	0.0037	mg/Kg	☼	03/18/13 18:27	03/20/13 23:21	10
Endrin	0.021	U	0.021	0.0028	mg/Kg	☼	03/18/13 18:27	03/20/13 23:21	10
Endrin aldehyde	0.021	U	0.021	0.0034	mg/Kg	☼	03/18/13 18:27	03/20/13 23:21	10
Endrin ketone	0.021	U	0.021	0.0046	mg/Kg	☼	03/18/13 18:27	03/20/13 23:21	10
gamma-BHC (Lindane)	0.021	U	0.021	0.0044	mg/Kg	☼	03/18/13 18:27	03/20/13 23:21	10
Heptachlor	0.021	U	0.021	0.0085	mg/Kg	☼	03/18/13 18:27	03/20/13 23:21	10
Heptachlor epoxide	0.021	U	0.021	0.0072	mg/Kg	☼	03/18/13 18:27	03/20/13 23:21	10
Isodrin	0.021	U	0.021	0.0095	mg/Kg	☼	03/18/13 18:27	03/20/13 23:21	10
Methoxychlor	0.10	U	0.10	0.0040	mg/Kg	☼	03/18/13 18:27	03/20/13 23:21	10
Toxaphene	0.20	U	0.20	0.086	mg/Kg	☼	03/18/13 18:27	03/20/13 23:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*75*		*56 - 128*	*03/18/13 18:27*	*03/20/13 23:21*	*10*
Tetrachloro-m-xylene	*70*		*45 - 112*	*03/18/13 18:27*	*03/20/13 23:21*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.020	U	0.020	0.0072	mg/Kg	☼	03/18/13 18:27	03/20/13 18:33	1
PCB-1221	0.020	U	0.020	0.0089	mg/Kg	☼	03/18/13 18:27	03/20/13 18:33	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-9-10-12-20130314-01
Date Collected: 03/14/13 17:40
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-7
Matrix: Solid
Percent Solids: 81.9

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	0.020	U	0.020	0.0089	mg/Kg	☼	03/18/13 18:27	03/20/13 18:33	1
PCB-1242	0.020	U	0.020	0.0067	mg/Kg	☼	03/18/13 18:27	03/20/13 18:33	1
PCB-1248	0.020	U	0.020	0.0080	mg/Kg	☼	03/18/13 18:27	03/20/13 18:33	1
PCB-1254	0.020	U	0.020	0.0044	mg/Kg	☼	03/18/13 18:27	03/20/13 18:33	1
PCB-1260	0.020	U	0.020	0.010	mg/Kg	☼	03/18/13 18:27	03/20/13 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*50 - 116*	*03/18/13 18:27*	*03/20/13 18:33*	*1*
DCB Decachlorobiphenyl	*81*		*48 - 142*	*03/18/13 18:27*	*03/20/13 18:33*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.079	U	0.079	0.0035	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Azinphos-methyl	0.079	U	0.079	0.018	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Bolstar	0.039	U	0.039	0.0056	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Carbophenthion	0.079	U	0.079	0.0063	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Chlorpyrifos	0.039	U	0.039	0.0081	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Chlorpyrifos-methyl	0.039	U	0.039	0.014	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Coumaphos	0.39	U	0.39	0.026	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Demeton-O	0.099	U	0.099	0.0031	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Demeton-S	0.099	U	0.099	0.0067	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Demeton, Total	0.099	U	0.099	0.0092	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Diazinon	0.039	U	0.039	0.0068	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Dichlofenthion	0.039	U	0.039	0.0050	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Dichlorvos	0.079	U	0.079	0.0076	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Dimethoate	0.079	U	0.079	0.010	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Disulfoton	0.079	U	0.079	0.019	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
EPN	0.039	U	0.039	0.0054	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Ethion	0.020	U	0.020	0.0063	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Ethoprop	0.020	U	0.020	0.0050	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Ethyl Parathion	0.039	U	0.039	0.0065	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Famphur	0.079	U	0.079	0.0099	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Fensulfothion	0.39	U	0.39	0.014	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Fenthion	0.039	U	0.039	0.0056	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Malathion	0.039	U	0.039	0.0098	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Merphos	0.039	U	0.039	0.013	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Methyl parathion	0.020	U	0.020	0.0064	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Mevinphos	0.079	U	0.079	0.0055	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Monochrotophos	0.39	U	0.39	0.055	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Naled	0.39	U	0.39	0.026	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Phorate	0.039	U	0.039	0.0064	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Ronnel	0.039	U	0.039	0.0050	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Simazine	0.079	U	0.079	0.0038	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Stirophos	0.039	U	0.039	0.0076	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Sulfotepp	0.020	U	0.020	0.010	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Terbufos	0.020	U	0.020	0.019	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Thionazin	0.039	U	0.039	0.012	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Tokuthion	0.039	U	0.039	0.0064	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1
Trichloronate	0.39	U	0.39	0.0090	mg/Kg	☼	03/18/13 14:54	04/01/13 13:18	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-9-10-12-20130314-01
Date Collected: 03/14/13 17:40
Date Received: 03/15/13 15:38

Lab Sample ID: 680-88399-7
Matrix: Solid
Percent Solids: 81.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate (TPP)	*70*		*35 - 134*	*03/18/13 14:54*	*04/01/13 13:18*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**20000**		21	11	mg/Kg	☼	03/20/13 12:29	03/21/13 17:14	1
Antimony	2.1	U	2.1	0.56	mg/Kg	☼	03/20/13 12:29	03/21/13 17:14	1
Arsenic	**2.5**		2.1	0.63	mg/Kg	☼	03/20/13 12:29	03/21/13 17:14	1
Barium	**54**		1.1	0.32	mg/Kg	☼	03/20/13 12:29	03/21/13 17:14	1
Beryllium	**0.55**		0.42	0.021	mg/Kg	☼	03/20/13 12:29	03/21/13 17:14	1
Cadmium	0.53	U	0.53	0.11	mg/Kg	☼	03/20/13 12:29	03/21/13 17:14	1
Calcium	**200**		53	21	mg/Kg	☼	03/20/13 12:29	03/21/13 17:14	1
Chromium	**33**		1.1	0.53	mg/Kg	☼	03/20/13 12:29	03/21/13 17:14	1
Cobalt	**2.4**		1.1	0.13	mg/Kg	☼	03/20/13 12:29	03/21/13 17:14	1
Copper	**15**		2.7	1.2	mg/Kg	☼	03/20/13 12:29	03/21/13 17:14	1
Iron	**22000**		21	7.4	mg/Kg	☼	03/20/13 12:29	03/21/13 17:14	1
Lead	**17**		1.1	0.56	mg/Kg	☼	03/20/13 12:29	03/21/13 17:14	1
Magnesium	**1600**		53	2.5	mg/Kg	☼	03/20/13 12:29	03/21/13 17:14	1
Manganese	**77**		1.1	0.32	mg/Kg	☼	03/20/13 12:29	03/21/13 17:14	1
Nickel	**6.2**		4.2	0.33	mg/Kg	☼	03/20/13 12:29	03/21/13 17:14	1
Potassium	**1900**		110	8.5	mg/Kg	☼	03/20/13 12:29	03/21/13 17:14	1
Selenium	2.7	U	2.7	1.1	mg/Kg	☼	03/20/13 12:29	03/21/13 17:14	1
Silver	1.1	U	1.1	0.10	mg/Kg	☼	03/20/13 12:29	03/21/13 17:14	1
Sodium	210	U	210	87	mg/Kg	☼	03/20/13 12:29	03/21/13 17:14	1
Thallium	**1.4**	**J**	2.7	1.1	mg/Kg	☼	03/20/13 12:29	03/21/13 17:14	1
Vanadium	**86**		1.1	0.25	mg/Kg	☼	03/20/13 12:29	03/21/13 17:14	1
Zinc	**30**		2.1	1.3	mg/Kg	☼	03/20/13 12:29	03/21/13 17:14	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022	U	0.022	0.0091	mg/Kg	☼	03/18/13 11:25	03/20/13 20:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	**0.96**	**J**	1.2	0.36	mg/Kg	☼	03/18/13 10:55	03/20/13 12:23	1
Cyanide, Total	0.60	U	0.60	0.25	mg/Kg	☼	03/20/13 10:30	03/21/13 09:21	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

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

Lab Sample ID: MB 680-269898/7
Matrix: Water
Analysis Batch: 269898

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			03/19/13 12:21	1
Benzene	1.0	U	1.0	0.25	ug/L			03/19/13 12:21	1
Bromobenzene	1.0	U	1.0	0.16	ug/L			03/19/13 12:21	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/19/13 12:21	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			03/19/13 12:21	1
Bromoform	1.0	U	1.0	0.50	ug/L			03/19/13 12:21	1
Bromomethane	1.0	U	1.0	0.80	ug/L			03/19/13 12:21	1
2-Butanone	10	U	10	1.0	ug/L			03/19/13 12:21	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			03/19/13 12:21	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			03/19/13 12:21	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			03/19/13 12:21	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			03/19/13 12:21	1
Chloroethane	1.0	U	1.0	1.0	ug/L			03/19/13 12:21	1
Chloroform	1.0	U	1.0	0.14	ug/L			03/19/13 12:21	1
Chloromethane	1.0	U	1.0	0.33	ug/L			03/19/13 12:21	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/L			03/19/13 12:21	1
4-Chlorotoluene	1.0	U	1.0	0.27	ug/L			03/19/13 12:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			03/19/13 12:21	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			03/19/13 12:21	1
Cyclohexane	1.0	U	1.0	0.25	ug/L			03/19/13 12:21	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			03/19/13 12:21	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			03/19/13 12:21	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			03/19/13 12:21	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			03/19/13 12:21	1
1,3-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			03/19/13 12:21	1
1,4-Dichlorobenzene	1.0	U	1.0	0.28	ug/L			03/19/13 12:21	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			03/19/13 12:21	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			03/19/13 12:21	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			03/19/13 12:21	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			03/19/13 12:21	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			03/19/13 12:21	1
1,3-Dichloropropane	1.0	U	1.0	0.13	ug/L			03/19/13 12:21	1
2,2-Dichloropropane	1.0	U	1.0	0.12	ug/L			03/19/13 12:21	1
1,1-Dichloropropene	1.0	U	1.0	0.25	ug/L			03/19/13 12:21	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/19/13 12:21	1
Hexachlorobutadiene	1.0	U	1.0	0.40	ug/L			03/19/13 12:21	1
2-Hexanone	10	U	10	1.0	ug/L			03/19/13 12:21	1
Isopropylbenzene	1.0	U	1.0	0.10	ug/L			03/19/13 12:21	1
Methyl acetate	1.0	U	1.0	0.19	ug/L			03/19/13 12:21	1
Methylcyclohexane	1.0	U	1.0	0.10	ug/L			03/19/13 12:21	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			03/19/13 12:21	1
4-Methyl-2-pentanone	10	U	10	1.0	ug/L			03/19/13 12:21	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			03/19/13 12:21	1
Naphthalene	5.0	U	5.0	1.0	ug/L			03/19/13 12:21	1
n-Butylbenzene	1.0	U	1.0	0.10	ug/L			03/19/13 12:21	1
N-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/19/13 12:21	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/19/13 12:21	1
sec-Butylbenzene	1.0	U	1.0	0.16	ug/L			03/19/13 12:21	1

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

Lab Sample ID: MB 680-269898/7
Matrix: Water
Analysis Batch: 269898

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U	1.0	0.11	ug/L			03/19/13 12:21	1
tert-Butylbenzene	1.0	U	1.0	0.12	ug/L			03/19/13 12:21	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			03/19/13 12:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			03/19/13 12:21	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/19/13 12:21	1
Toluene	1.0	U	1.0	0.33	ug/L			03/19/13 12:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			03/19/13 12:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			03/19/13 12:21	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			03/19/13 12:21	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.25	ug/L			03/19/13 12:21	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			03/19/13 12:21	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			03/19/13 12:21	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			03/19/13 12:21	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			03/19/13 12:21	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			03/19/13 12:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			03/19/13 12:21	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			03/19/13 12:21	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			03/19/13 12:21	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			03/19/13 12:21	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			03/19/13 12:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*70 - 130*		*03/19/13 12:21*	*1*
Dibromofluoromethane	*108*		*70 - 130*		*03/19/13 12:21*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*03/19/13 12:21*	*1*

Lab Sample ID: LCS 680-269898/4
Matrix: Water
Analysis Batch: 269898

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	100		ug/L		100	39 - 162
Benzene	50.0	52.4		ug/L		105	74 - 123
Bromobenzene	50.0	57.3		ug/L		115	79 - 125
Bromochloromethane	50.0	51.4		ug/L		103	60 - 136
Bromodichloromethane	50.0	53.7		ug/L		107	72 - 129
Bromoform	50.0	43.9		ug/L		88	60 - 134
Bromomethane	50.0	24.6		ug/L		49	10 - 171
2-Butanone	100	107		ug/L		107	55 - 142
Carbon disulfide	50.0	59.0		ug/L		118	63 - 142
Carbon tetrachloride	50.0	48.3		ug/L		97	70 - 131
Chlorobenzene	50.0	53.5		ug/L		107	79 - 120
Chlorodibromomethane	50.0	45.8		ug/L		92	63 - 134
Chloroethane	50.0	53.9		ug/L		108	47 - 148
Chloroform	50.0	54.3		ug/L		109	76 - 128
Chloromethane	50.0	52.3		ug/L		105	47 - 151
2-Chlorotoluene	50.0	58.9		ug/L		118	78 - 126
4-Chlorotoluene	50.0	59.0		ug/L		118	79 - 124

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

Lab Sample ID: LCS 680-269898/4
Matrix: Water
Analysis Batch: 269898

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	50.0	55.4		ug/L		111	78 - 127
cis-1,3-Dichloropropene	50.0	46.0		ug/L		92	73 - 128
Cyclohexane	50.0	51.2		ug/L		102	68 - 137
1,2-Dibromo-3-Chloropropane	50.0	48.6		ug/L		97	57 - 126
1,2-Dibromoethane	50.0	51.9		ug/L		104	75 - 127
Dibromomethane	50.0	53.2		ug/L		106	75 - 122
1,2-Dichlorobenzene	50.0	54.5		ug/L		109	77 - 124
1,3-Dichlorobenzene	50.0	55.6		ug/L		111	79 - 123
1,4-Dichlorobenzene	50.0	55.5		ug/L		111	76 - 124
Dichlorodifluoromethane	50.0	46.8		ug/L		94	41 - 165
1,1-Dichloroethane	50.0	46.2		ug/L		92	69 - 132
1,2-Dichloroethane	50.0	50.4		ug/L		101	75 - 120
1,1-Dichloroethene	50.0	57.2		ug/L		114	73 - 134
1,2-Dichloropropane	50.0	53.2		ug/L		106	71 - 126
1,3-Dichloropropane	50.0	50.4		ug/L		101	73 - 125
2,2-Dichloropropane	50.0	55.2		ug/L		110	72 - 147
1,1-Dichloropropene	50.0	54.7		ug/L		109	74 - 130
Ethylbenzene	50.0	57.2		ug/L		114	78 - 125
Hexachlorobutadiene	50.0	56.6		ug/L		113	62 - 145
2-Hexanone	100	90.2		ug/L		90	52 - 149
Isopropylbenzene	50.0	59.9		ug/L		120	72 - 129
Methyl acetate	50.0	44.7		ug/L		89	26 - 182
Methylcyclohexane	50.0	57.4		ug/L		115	72 - 133
Methylene Chloride	50.0	51.8		ug/L		104	79 - 124
4-Methyl-2-pentanone	100	102		ug/L		102	51 - 143
Methyl tert-butyl ether	100	102		ug/L		102	76 - 126
Naphthalene	50.0	49.1		ug/L		98	56 - 136
n-Butylbenzene	50.0	55.0		ug/L		110	72 - 128
N-Propylbenzene	50.0	55.9		ug/L		112	74 - 130
p-Isopropyltoluene	50.0	57.4		ug/L		115	69 - 129
sec-Butylbenzene	50.0	57.2		ug/L		114	71 - 130
Styrene	50.0	57.8		ug/L		116	75 - 129
tert-Butylbenzene	50.0	57.3		ug/L		115	72 - 130
1,1,1,2-Tetrachloroethane	50.0	51.1		ug/L		102	68 - 132
1,1,2,2-Tetrachloroethane	50.0	52.9		ug/L		106	71 - 127
Tetrachloroethene	50.0	56.3		ug/L		113	77 - 128
Toluene	50.0	55.4		ug/L		111	77 - 125
trans-1,2-Dichloroethene	50.0	52.8		ug/L		106	78 - 130
trans-1,3-Dichloropropene	50.0	44.7		ug/L		89	72 - 127
1,2,3-Trichlorobenzene	50.0	46.4		ug/L		93	63 - 136
1,2,4-Trichlorobenzene	50.0	45.9		ug/L		92	67 - 134
1,1,1-Trichloroethane	50.0	53.9		ug/L		108	76 - 126
1,1,2-Trichloroethane	50.0	54.6		ug/L		109	69 - 127
Trichloroethene	50.0	55.0		ug/L		110	80 - 120
Trichlorofluoromethane	50.0	52.8		ug/L		106	66 - 144
1,2,3-Trichloropropane	50.0	51.2		ug/L		102	74 - 126
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.1		ug/L		108	72 - 139

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

Lab Sample ID: LCS 680-269898/4
Matrix: Water
Analysis Batch: 269898

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	50.0	58.0		ug/L		116	72 - 129
1,3,5-Trimethylbenzene	50.0	58.4		ug/L		117	72 - 130
Vinyl chloride	50.0	52.8		ug/L		106	58 - 141
Xylenes, Total	150	173		ug/L		115	80 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*109*		*70 - 130*
Dibromofluoromethane	*109*		*70 - 130*
Toluene-d8 (Surr)	*110*		*70 - 130*

Lab Sample ID: LCSD 680-269898/5
Matrix: Water
Analysis Batch: 269898

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	106		ug/L		106	39 - 162	5	50
Benzene	50.0	49.8		ug/L		100	74 - 123	5	30
Bromobenzene	50.0	54.6		ug/L		109	79 - 125	5	30
Bromochloromethane	50.0	51.0		ug/L		102	60 - 136	1	30
Bromodichloromethane	50.0	50.8		ug/L		102	72 - 129	6	30
Bromoform	50.0	42.4		ug/L		85	60 - 134	3	30
Bromomethane	50.0	24.8		ug/L		50	10 - 171	0	50
2-Butanone	100	105		ug/L		105	55 - 142	2	30
Carbon disulfide	50.0	53.4		ug/L		107	63 - 142	10	30
Carbon tetrachloride	50.0	44.3		ug/L		89	70 - 131	9	30
Chlorobenzene	50.0	51.4		ug/L		103	79 - 120	4	30
Chlorodibromomethane	50.0	43.8		ug/L		88	63 - 134	5	50
Chloroethane	50.0	52.7		ug/L		105	47 - 148	2	40
Chloroform	50.0	51.4		ug/L		103	76 - 128	5	30
Chloromethane	50.0	48.7		ug/L		97	47 - 151	7	30
2-Chlorotoluene	50.0	55.8		ug/L		112	78 - 126	5	30
4-Chlorotoluene	50.0	57.1		ug/L		114	79 - 124	3	30
cis-1,2-Dichloroethene	50.0	51.2		ug/L		102	78 - 127	8	30
cis-1,3-Dichloropropene	50.0	45.2		ug/L		90	73 - 128	2	30
Cyclohexane	50.0	47.8		ug/L		96	68 - 137	7	30
1,2-Dibromo-3-Chloropropane	50.0	47.9		ug/L		96	57 - 126	1	50
1,2-Dibromoethane	50.0	51.6		ug/L		103	75 - 127	1	30
Dibromomethane	50.0	52.5		ug/L		105	75 - 122	1	30
1,2-Dichlorobenzene	50.0	53.0		ug/L		106	77 - 124	3	30
1,3-Dichlorobenzene	50.0	54.3		ug/L		109	79 - 123	2	30
1,4-Dichlorobenzene	50.0	53.7		ug/L		107	76 - 124	3	30
Dichlorodifluoromethane	50.0	44.4		ug/L		89	41 - 165	5	50
1,1-Dichloroethane	50.0	43.4		ug/L		87	69 - 132	6	30
1,2-Dichloroethane	50.0	50.3		ug/L		101	75 - 120	0	30
1,1-Dichloroethene	50.0	51.8		ug/L		104	73 - 134	10	30
1,2-Dichloropropane	50.0	50.8		ug/L		102	71 - 126	5	30
1,3-Dichloropropane	50.0	50.5		ug/L		101	73 - 125	0	30
2,2-Dichloropropane	50.0	50.4		ug/L		101	72 - 147	9	30

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

Lab Sample ID: LCSD 680-269898/5
Matrix: Water
Analysis Batch: 269898

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloropropene			50.0	51.4		ug/L		103	74 - 130	6	30
Ethylbenzene			50.0	53.7		ug/L		107	78 - 125	6	30
Hexachlorobutadiene			50.0	55.2		ug/L		110	62 - 145	2	30
2-Hexanone			100	89.1		ug/L		89	52 - 149	1	30
Isopropylbenzene			50.0	56.2		ug/L		112	72 - 129	6	30
Methyl acetate			50.0	43.0		ug/L		86	26 - 182	4	30
Methylcyclohexane			50.0	54.4		ug/L		109	72 - 133	5	30
Methylene Chloride			50.0	49.7		ug/L		99	79 - 124	4	30
4-Methyl-2-pentanone			100	103		ug/L		103	51 - 143	1	30
Methyl tert-butyl ether			100	99.4		ug/L		99	76 - 126	2	30
Naphthalene			50.0	49.3		ug/L		99	56 - 136	0	30
n-Butylbenzene			50.0	52.4		ug/L		105	72 - 128	5	30
N-Propylbenzene			50.0	53.6		ug/L		107	74 - 130	4	30
p-Isopropyltoluene			50.0	54.8		ug/L		110	69 - 129	5	50
sec-Butylbenzene			50.0	54.3		ug/L		109	71 - 130	5	30
Styrene			50.0	56.3		ug/L		113	75 - 129	3	30
tert-Butylbenzene			50.0	54.0		ug/L		108	72 - 130	6	30
1,1,1,2-Tetrachloroethane			50.0	48.4		ug/L		97	68 - 132	5	30
1,1,2,2-Tetrachloroethane			50.0	52.9		ug/L		106	71 - 127	0	30
Tetrachloroethene			50.0	52.3		ug/L		105	77 - 128	7	30
Toluene			50.0	52.6		ug/L		105	77 - 125	5	30
trans-1,2-Dichloroethene			50.0	49.0		ug/L		98	78 - 130	7	30
trans-1,3-Dichloropropene			50.0	44.0		ug/L		88	72 - 127	2	50
1,2,3-Trichlorobenzene			50.0	46.8		ug/L		94	63 - 136	1	30
1,2,4-Trichlorobenzene			50.0	45.7		ug/L		91	67 - 134	0	30
1,1,1-Trichloroethane			50.0	50.1		ug/L		100	76 - 126	7	30
1,1,2-Trichloroethane			50.0	54.1		ug/L		108	69 - 127	1	30
Trichloroethene			50.0	52.4		ug/L		105	80 - 120	5	30
Trichlorofluoromethane			50.0	49.1		ug/L		98	66 - 144	7	30
1,2,3-Trichloropropane			50.0	50.1		ug/L		100	74 - 126	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	49.5		ug/L		99	72 - 139	9	30
1,2,4-Trimethylbenzene			50.0	55.3		ug/L		111	72 - 129	5	50
1,3,5-Trimethylbenzene			50.0	55.2		ug/L		110	72 - 130	6	50
Vinyl chloride			50.0	50.8		ug/L		102	58 - 141	4	30
Xylenes, Total			150	164		ug/L		109	80 - 124	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*106*		*70 - 130*
Dibromofluoromethane	*102*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: MB 680-270459/6
Matrix: Solid
Analysis Batch: 270459

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.0	U	2.0	0.44	mg/Kg			03/23/13 02:01	40

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

Lab Sample ID: MB 680-270459/6
Matrix: Solid
Analysis Batch: 270459

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.20	U	0.20	0.029	mg/Kg			03/23/13 02:01	40
Bromobenzene	0.20	U	0.20	0.068	mg/Kg			03/23/13 02:01	40
Bromochloromethane	0.20	U	0.20	0.13	mg/Kg			03/23/13 02:01	40
Bromodichloromethane	0.20	U	0.20	0.039	mg/Kg			03/23/13 02:01	40
Bromoform	0.20	U	0.20	0.060	mg/Kg			03/23/13 02:01	40
Bromomethane	0.20	U	0.20	0.060	mg/Kg			03/23/13 02:01	40
2-Butanone	1.0	U	1.0	0.096	mg/Kg			03/23/13 02:01	40
Carbon disulfide	0.20	U	0.20	0.044	mg/Kg			03/23/13 02:01	40
Carbon tetrachloride	0.20	U	0.20	0.033	mg/Kg			03/23/13 02:01	40
Chlorobenzene	0.20	U	0.20	0.038	mg/Kg			03/23/13 02:01	40
Chlorodibromomethane	0.20	U	0.20	0.068	mg/Kg			03/23/13 02:01	40
Chloroethane	0.20	U	0.20	0.11	mg/Kg			03/23/13 02:01	40
Chloroform	0.20	U	0.20	0.044	mg/Kg			03/23/13 02:01	40
Chloromethane	0.20	U	0.20	0.040	mg/Kg			03/23/13 02:01	40
2-Chlorotoluene	0.20	U	0.20	0.080	mg/Kg			03/23/13 02:01	40
4-Chlorotoluene	0.20	U	0.20	0.068	mg/Kg			03/23/13 02:01	40
cis-1,2-Dichloroethene	0.20	U	0.20	0.056	mg/Kg			03/23/13 02:01	40
cis-1,3-Dichloropropene	0.20	U	0.20	0.033	mg/Kg			03/23/13 02:01	40
Cyclohexane	0.40	U	0.40	0.052	mg/Kg			03/23/13 02:01	40
1,2-Dibromo-3-Chloropropane	0.40	U	0.40	0.18	mg/Kg			03/23/13 02:01	40
1,2-Dibromoethane	0.20	U	0.20	0.060	mg/Kg			03/23/13 02:01	40
Dibromomethane	0.20	U	0.20	0.068	mg/Kg			03/23/13 02:01	40
1,2-Dichlorobenzene	0.20	U	0.20	0.052	mg/Kg			03/23/13 02:01	40
1,3-Dichlorobenzene	0.20	U	0.20	0.064	mg/Kg			03/23/13 02:01	40
1,4-Dichlorobenzene	0.20	U	0.20	0.030	mg/Kg			03/23/13 02:01	40
Dichlorodifluoromethane	0.20	U	0.20	0.038	mg/Kg			03/23/13 02:01	40
1,1-Dichloroethane	0.20	U	0.20	0.044	mg/Kg			03/23/13 02:01	40
1,2-Dichloroethane	0.20	U	0.20	0.044	mg/Kg			03/23/13 02:01	40
1,1-Dichloroethene	0.20	U	0.20	0.060	mg/Kg			03/23/13 02:01	40
1,2-Dichloropropane	0.20	U	0.20	0.034	mg/Kg			03/23/13 02:01	40
1,3-Dichloropropane	0.20	U	0.20	0.072	mg/Kg			03/23/13 02:01	40
2,2-Dichloropropane	0.20	U	0.20	0.044	mg/Kg			03/23/13 02:01	40
1,1-Dichloropropene	0.20	U	0.20	0.038	mg/Kg			03/23/13 02:01	40
Ethylbenzene	0.20	U	0.20	0.052	mg/Kg			03/23/13 02:01	40
Hexachlorobutadiene	0.20	U	0.20	0.12	mg/Kg			03/23/13 02:01	40
2-Hexanone	1.0	U	1.0	0.13	mg/Kg			03/23/13 02:01	40
Isopropylbenzene	0.20	U	0.20	0.076	mg/Kg			03/23/13 02:01	40
Methyl acetate	0.40	U	0.40	0.20	mg/Kg			03/23/13 02:01	40
Methylcyclohexane	0.40	U	0.40	0.034	mg/Kg			03/23/13 02:01	40
Methylene Chloride	0.20	U	0.20	0.039	mg/Kg			03/23/13 02:01	40
4-Methyl-2-pentanone	1.0	U	1.0	0.17	mg/Kg			03/23/13 02:01	40
Methyl tert-butyl ether	0.40	U	0.40	0.040	mg/Kg			03/23/13 02:01	40
Naphthalene	0.0634	J	0.20	0.048	mg/Kg			03/23/13 02:01	40
n-Butylbenzene	0.20	U	0.20	0.096	mg/Kg			03/23/13 02:01	40
N-Propylbenzene	0.20	U	0.20	0.11	mg/Kg			03/23/13 02:01	40
p-Isopropyltoluene	0.20	U	0.20	0.088	mg/Kg			03/23/13 02:01	40
sec-Butylbenzene	0.20	U	0.20	0.084	mg/Kg			03/23/13 02:01	40
Styrene	0.20	U	0.20	0.037	mg/Kg			03/23/13 02:01	40

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

Lab Sample ID: MB 680-270459/6
Matrix: Solid
Analysis Batch: 270459

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.20	U	0.20	0.072	mg/Kg			03/23/13 02:01	40
1,1,1,2-Tetrachloroethane	0.20	U	0.20	0.096	mg/Kg			03/23/13 02:01	40
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.064	mg/Kg			03/23/13 02:01	40
Tetrachloroethene	0.20	U	0.20	0.076	mg/Kg			03/23/13 02:01	40
Toluene	0.20	U	0.20	0.034	mg/Kg			03/23/13 02:01	40
trans-1,2-Dichloroethene	0.20	U	0.20	0.025	mg/Kg			03/23/13 02:01	40
trans-1,3-Dichloropropene	0.20	U	0.20	0.035	mg/Kg			03/23/13 02:01	40
1,2,3-Trichlorobenzene	0.20	U	0.20	0.064	mg/Kg			03/23/13 02:01	40
1,2,4-Trichlorobenzene	0.20	U	0.20	0.036	mg/Kg			03/23/13 02:01	40
1,1,1-Trichloroethane	0.20	U	0.20	0.024	mg/Kg			03/23/13 02:01	40
1,1,2-Trichloroethane	0.20	U	0.20	0.052	mg/Kg			03/23/13 02:01	40
Trichloroethene	0.20	U	0.20	0.052	mg/Kg			03/23/13 02:01	40
Trichlorofluoromethane	0.20	U	0.20	0.048	mg/Kg			03/23/13 02:01	40
1,2,3-Trichloropropane	0.20	U	0.20	0.096	mg/Kg			03/23/13 02:01	40
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	0.052	mg/Kg			03/23/13 02:01	40
1,2,4-Trimethylbenzene	0.20	U	0.20	0.056	mg/Kg			03/23/13 02:01	40
1,3,5-Trimethylbenzene	0.20	U	0.20	0.068	mg/Kg			03/23/13 02:01	40
Vinyl chloride	0.20	U	0.20	0.060	mg/Kg			03/23/13 02:01	40
Xylenes, Total	0.40	U	0.40	0.044	mg/Kg			03/23/13 02:01	40

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*65 - 130*		*03/23/13 02:01*	*40*
Dibromofluoromethane	*94*		*65 - 130*		*03/23/13 02:01*	*40*
Toluene-d8 (Surr)	*99*		*65 - 130*		*03/23/13 02:01*	*40*

Lab Sample ID: LCS 680-270459/4
Matrix: Solid
Analysis Batch: 270459

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	5.00	5.60		mg/Kg		112	54 - 139
Benzene	2.50	2.37		mg/Kg		95	76 - 120
Bromobenzene	2.50	2.18		mg/Kg		87	77 - 131
Bromochloromethane	2.50	2.35		mg/Kg		94	80 - 120
Bromodichloromethane	2.50	2.50		mg/Kg		100	72 - 131
Bromoform	2.50	2.13		mg/Kg		85	64 - 150
Bromomethane	2.50	1.14		mg/Kg		46	10 - 174
2-Butanone	5.00	4.33		mg/Kg		87	66 - 123
Carbon disulfide	2.50	2.12		mg/Kg		85	74 - 125
Carbon tetrachloride	2.50	2.21		mg/Kg		88	67 - 140
Chlorobenzene	2.50	2.28		mg/Kg		91	80 - 120
Chlorodibromomethane	2.50	2.42		mg/Kg		97	77 - 132
Chloroethane	2.50	0.947		mg/Kg		38	10 - 176
Chloroform	2.50	2.23		mg/Kg		89	80 - 121
Chloromethane	2.50	2.44		mg/Kg		98	48 - 146
2-Chlorotoluene	2.50	2.09		mg/Kg		84	77 - 124
4-Chlorotoluene	2.50	2.04		mg/Kg		82	78 - 124
cis-1,2-Dichloroethene	2.50	2.28		mg/Kg		91	80 - 120

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

Lab Sample ID: LCS 680-270459/4
Matrix: Solid
Analysis Batch: 270459

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	2.50	2.50		mg/Kg		100	74 - 125
Cyclohexane	2.50	2.27		mg/Kg		91	70 - 130
1,2-Dibromo-3-Chloropropane	2.50	2.00		mg/Kg		80	49 - 152
1,2-Dibromoethane	2.50	2.51		mg/Kg		100	72 - 129
Dibromomethane	2.50	2.53		mg/Kg		101	73 - 127
1,2-Dichlorobenzene	2.50	2.01		mg/Kg		80	75 - 128
1,3-Dichlorobenzene	2.50	2.04		mg/Kg		82	76 - 128
1,4-Dichlorobenzene	2.50	2.06		mg/Kg		82	76 - 128
Dichlorodifluoromethane	2.50	2.06		mg/Kg		82	72 - 134
1,1-Dichloroethane	2.50	2.17		mg/Kg		87	80 - 120
1,2-Dichloroethane	2.50	2.55		mg/Kg		102	61 - 140
1,1-Dichloroethene	2.50	1.91		mg/Kg		76	64 - 138
1,2-Dichloropropane	2.50	2.53		mg/Kg		101	73 - 121
1,3-Dichloropropane	2.50	2.50		mg/Kg		100	70 - 126
2,2-Dichloropropane	2.50	2.08		mg/Kg		83	78 - 126
1,1-Dichloropropene	2.50	2.23		mg/Kg		89	74 - 124
Ethylbenzene	2.50	2.19		mg/Kg		88	78 - 121
Hexachlorobutadiene	2.50	1.97		mg/Kg		79	70 - 146
2-Hexanone	5.00	4.45		mg/Kg		89	60 - 126
Isopropylbenzene	2.50	2.12		mg/Kg		85	79 - 124
Methyl acetate	2.50	2.39		mg/Kg		96	43 - 135
Methylcyclohexane	2.50	2.25		mg/Kg		90	77 - 118
Methylene Chloride	2.50	2.38		mg/Kg		95	80 - 120
4-Methyl-2-pentanone	5.00	4.32		mg/Kg		86	59 - 127
Methyl tert-butyl ether	5.00	5.01		mg/Kg		100	80 - 121
Naphthalene	2.50	2.18		mg/Kg		87	71 - 138
n-Butylbenzene	2.50	1.96		mg/Kg		78	78 - 121
N-Propylbenzene	2.50	2.11		mg/Kg		84	78 - 125
p-Isopropyltoluene	2.50	1.97		mg/Kg		79	78 - 125
sec-Butylbenzene	2.50	1.99		mg/Kg		80	77 - 123
Styrene	2.50	2.20		mg/Kg		88	78 - 123
tert-Butylbenzene	2.50	2.00		mg/Kg		80	79 - 127
1,1,1,2-Tetrachloroethane	2.50	2.32		mg/Kg		93	80 - 129
1,1,2,2-Tetrachloroethane	2.50	1.92		mg/Kg		77	70 - 123
Tetrachloroethene	2.50	2.13		mg/Kg		85	77 - 130
Toluene	2.50	2.35		mg/Kg		94	73 - 122
trans-1,2-Dichloroethene	2.50	2.17		mg/Kg		87	79 - 120
trans-1,3-Dichloropropene	2.50	2.46		mg/Kg		98	69 - 133
1,2,3-Trichlorobenzene	2.50	2.35		mg/Kg		94	74 - 146
1,2,4-Trichlorobenzene	2.50	2.07		mg/Kg		83	77 - 142
1,1,1-Trichloroethane	2.50	2.26		mg/Kg		91	73 - 132
1,1,2-Trichloroethane	2.50	2.45		mg/Kg		98	72 - 124
Trichloroethene	2.50	2.29		mg/Kg		92	78 - 125
Trichlorofluoromethane	2.50	1.94		mg/Kg		78	60 - 148
1,2,3-Trichloropropane	2.50	2.03		mg/Kg		81	67 - 132
1,1,2-Trichloro-1,2,2-trifluoroethane	2.50	1.87		mg/Kg		75	62 - 141
1,2,4-Trimethylbenzene	2.50	2.06		mg/Kg		82	77 - 126

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

Lab Sample ID: LCS 680-270459/4
Matrix: Solid
Analysis Batch: 270459

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	2.50	2.09		mg/Kg		83	77 - 126
Vinyl chloride	2.50	2.34		mg/Kg		94	65 - 133
Xylenes, Total	7.50	6.53		mg/Kg		87	79 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*86*		*65 - 130*
Dibromofluoromethane	*91*		*65 - 130*
Toluene-d8 (Surr)	*94*		*65 - 130*

Lab Sample ID: LCSD 680-270459/5
Matrix: Solid
Analysis Batch: 270459

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	5.00	5.87		mg/Kg		117	54 - 139	5	50
Benzene	2.50	2.45		mg/Kg		98	76 - 120	3	50
Bromobenzene	2.50	2.25		mg/Kg		90	77 - 131	3	50
Bromochloromethane	2.50	2.29		mg/Kg		92	80 - 120	2	50
Bromodichloromethane	2.50	2.58		mg/Kg		103	72 - 131	3	50
Bromoform	2.50	2.15		mg/Kg		86	64 - 150	1	50
Bromomethane	2.50	1.19		mg/Kg		48	10 - 174	4	50
2-Butanone	5.00	4.49		mg/Kg		90	66 - 123	3	50
Carbon disulfide	2.50	2.11		mg/Kg		84	74 - 125	1	50
Carbon tetrachloride	2.50	2.30		mg/Kg		92	67 - 140	4	50
Chlorobenzene	2.50	2.31		mg/Kg		92	80 - 120	1	50
Chlorodibromomethane	2.50	2.43		mg/Kg		97	77 - 132	0	50
Chloroethane	2.50	0.948		mg/Kg		38	10 - 176	0	50
Chloroform	2.50	2.17		mg/Kg		87	80 - 121	2	50
Chloromethane	2.50	2.36		mg/Kg		94	48 - 146	4	50
2-Chlorotoluene	2.50	2.12		mg/Kg		85	77 - 124	1	50
4-Chlorotoluene	2.50	2.06		mg/Kg		82	78 - 124	1	50
cis-1,2-Dichloroethene	2.50	2.19		mg/Kg		87	80 - 120	4	50
cis-1,3-Dichloropropene	2.50	2.61		mg/Kg		104	74 - 125	4	50
Cyclohexane	2.50	2.31		mg/Kg		93	70 - 130	2	50
1,2-Dibromo-3-Chloropropane	2.50	2.23		mg/Kg		89	49 - 152	11	50
1,2-Dibromoethane	2.50	2.58		mg/Kg		103	72 - 129	3	50
Dibromomethane	2.50	2.63		mg/Kg		105	73 - 127	4	50
1,2-Dichlorobenzene	2.50	2.15		mg/Kg		86	75 - 128	7	50
1,3-Dichlorobenzene	2.50	2.08		mg/Kg		83	76 - 128	2	50
1,4-Dichlorobenzene	2.50	2.06		mg/Kg		82	76 - 128	0	50
Dichlorodifluoromethane	2.50	1.98		mg/Kg		79	72 - 134	4	50
1,1-Dichloroethane	2.50	2.14		mg/Kg		86	80 - 120	2	50
1,2-Dichloroethane	2.50	2.72		mg/Kg		109	61 - 140	6	50
1,1-Dichloroethene	2.50	1.86		mg/Kg		75	64 - 138	2	50
1,2-Dichloropropane	2.50	2.55		mg/Kg		102	73 - 121	1	50
1,3-Dichloropropane	2.50	2.63		mg/Kg		105	70 - 126	5	50
2,2-Dichloropropane	2.50	2.01		mg/Kg		80	78 - 126	4	50
1,1-Dichloropropene	2.50	2.28		mg/Kg		91	74 - 124	2	50

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

Lab Sample ID: LCSD 680-270459/5
Matrix: Solid
Analysis Batch: 270459

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	2.50	2.25		mg/Kg		90	78 - 121	2	50
Hexachlorobutadiene	2.50	2.10		mg/Kg		84	70 - 146	6	50
2-Hexanone	5.00	4.83		mg/Kg		97	60 - 126	8	50
Isopropylbenzene	2.50	2.15		mg/Kg		86	79 - 124	1	50
Methyl acetate	2.50	2.44		mg/Kg		98	43 - 135	2	50
Methylcyclohexane	2.50	2.36		mg/Kg		94	77 - 118	4	50
Methylene Chloride	2.50	2.35		mg/Kg		94	80 - 120	1	50
4-Methyl-2-pentanone	5.00	4.74		mg/Kg		95	59 - 127	9	50
Methyl tert-butyl ether	5.00	5.01		mg/Kg		100	80 - 121	0	50
Naphthalene	2.50	2.53		mg/Kg		101	71 - 138	15	50
n-Butylbenzene	2.50	2.02		mg/Kg		81	78 - 121	3	50
N-Propylbenzene	2.50	2.08		mg/Kg		83	78 - 125	2	50
p-Isopropyltoluene	2.50	2.00		mg/Kg		80	78 - 125	2	50
sec-Butylbenzene	2.50	2.03		mg/Kg		81	77 - 123	2	50
Styrene	2.50	2.22		mg/Kg		89	78 - 123	1	50
tert-Butylbenzene	2.50	2.03		mg/Kg		81	79 - 127	2	50
1,1,1,2-Tetrachloroethane	2.50	2.35		mg/Kg		94	80 - 129	1	50
1,1,2,2-Tetrachloroethane	2.50	2.03		mg/Kg		81	70 - 123	6	50
Tetrachloroethene	2.50	2.16		mg/Kg		87	77 - 130	1	50
Toluene	2.50	2.43		mg/Kg		97	73 - 122	3	50
trans-1,2-Dichloroethene	2.50	2.14		mg/Kg		86	79 - 120	1	50
trans-1,3-Dichloropropene	2.50	2.57		mg/Kg		103	69 - 133	4	50
1,2,3-Trichlorobenzene	2.50	2.60		mg/Kg		104	74 - 146	10	50
1,2,4-Trichlorobenzene	2.50	2.28		mg/Kg		91	77 - 142	9	50
1,1,1-Trichloroethane	2.50	2.36		mg/Kg		94	73 - 132	4	50
1,1,2-Trichloroethane	2.50	2.58		mg/Kg		103	72 - 124	5	50
Trichloroethene	2.50	2.38		mg/Kg		95	78 - 125	4	50
Trichlorofluoromethane	2.50	1.90		mg/Kg		76	60 - 148	2	50
1,2,3-Trichloropropane	2.50	2.15		mg/Kg		86	67 - 132	6	50
1,1,2-Trichloro-1,2,2-trifluoroethane	2.50	1.84		mg/Kg		74	62 - 141	2	50
1,2,4-Trimethylbenzene	2.50	2.11		mg/Kg		84	77 - 126	2	50
1,3,5-Trimethylbenzene	2.50	2.11		mg/Kg		85	77 - 126	1	50
Vinyl chloride	2.50	2.30		mg/Kg		92	65 - 133	2	50
Xylenes, Total	7.50	6.68		mg/Kg		89	79 - 121	2	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*87*		*65 - 130*
Dibromofluoromethane	*90*		*65 - 130*
Toluene-d8 (Surr)	*96*		*65 - 130*

Lab Sample ID: MB 680-270603/7
Matrix: Solid
Analysis Batch: 270603

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.0	U	2.0	0.44	mg/Kg			03/24/13 13:51	40
Benzene	0.20	U	0.20	0.029	mg/Kg			03/24/13 13:51	40

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

Lab Sample ID: MB 680-270603/7
Matrix: Solid
Analysis Batch: 270603

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	0.20	U	0.20	0.068	mg/Kg			03/24/13 13:51	40
Bromochloromethane	0.20	U	0.20	0.13	mg/Kg			03/24/13 13:51	40
Bromodichloromethane	0.20	U	0.20	0.039	mg/Kg			03/24/13 13:51	40
Bromoform	0.20	U	0.20	0.060	mg/Kg			03/24/13 13:51	40
Bromomethane	0.20	U	0.20	0.060	mg/Kg			03/24/13 13:51	40
2-Butanone	1.0	U	1.0	0.096	mg/Kg			03/24/13 13:51	40
Carbon disulfide	0.20	U	0.20	0.044	mg/Kg			03/24/13 13:51	40
Carbon tetrachloride	0.20	U	0.20	0.033	mg/Kg			03/24/13 13:51	40
Chlorobenzene	0.20	U	0.20	0.038	mg/Kg			03/24/13 13:51	40
Chlorodibromomethane	0.20	U	0.20	0.068	mg/Kg			03/24/13 13:51	40
Chloroethane	0.20	U	0.20	0.11	mg/Kg			03/24/13 13:51	40
Chloroform	0.20	U	0.20	0.044	mg/Kg			03/24/13 13:51	40
Chloromethane	0.20	U	0.20	0.040	mg/Kg			03/24/13 13:51	40
2-Chlorotoluene	0.20	U	0.20	0.080	mg/Kg			03/24/13 13:51	40
4-Chlorotoluene	0.20	U	0.20	0.068	mg/Kg			03/24/13 13:51	40
cis-1,2-Dichloroethene	0.20	U	0.20	0.056	mg/Kg			03/24/13 13:51	40
cis-1,3-Dichloropropene	0.20	U	0.20	0.033	mg/Kg			03/24/13 13:51	40
Cyclohexane	0.40	U	0.40	0.052	mg/Kg			03/24/13 13:51	40
1,2-Dibromo-3-Chloropropane	0.40	U	0.40	0.18	mg/Kg			03/24/13 13:51	40
1,2-Dibromoethane	0.20	U	0.20	0.060	mg/Kg			03/24/13 13:51	40
Dibromomethane	0.20	U	0.20	0.068	mg/Kg			03/24/13 13:51	40
1,2-Dichlorobenzene	0.20	U	0.20	0.052	mg/Kg			03/24/13 13:51	40
1,3-Dichlorobenzene	0.20	U	0.20	0.064	mg/Kg			03/24/13 13:51	40
1,4-Dichlorobenzene	0.20	U	0.20	0.030	mg/Kg			03/24/13 13:51	40
Dichlorodifluoromethane	0.20	U	0.20	0.038	mg/Kg			03/24/13 13:51	40
1,1-Dichloroethane	0.20	U	0.20	0.044	mg/Kg			03/24/13 13:51	40
1,2-Dichloroethane	0.20	U	0.20	0.044	mg/Kg			03/24/13 13:51	40
1,1-Dichloroethene	0.20	U	0.20	0.060	mg/Kg			03/24/13 13:51	40
1,2-Dichloropropane	0.20	U	0.20	0.034	mg/Kg			03/24/13 13:51	40
1,3-Dichloropropane	0.20	U	0.20	0.072	mg/Kg			03/24/13 13:51	40
2,2-Dichloropropane	0.20	U	0.20	0.044	mg/Kg			03/24/13 13:51	40
1,1-Dichloropropene	0.20	U	0.20	0.038	mg/Kg			03/24/13 13:51	40
Ethylbenzene	0.20	U	0.20	0.052	mg/Kg			03/24/13 13:51	40
Hexachlorobutadiene	0.20	U	0.20	0.12	mg/Kg			03/24/13 13:51	40
2-Hexanone	1.0	U	1.0	0.13	mg/Kg			03/24/13 13:51	40
Isopropylbenzene	0.20	U	0.20	0.076	mg/Kg			03/24/13 13:51	40
Methyl acetate	0.40	U	0.40	0.20	mg/Kg			03/24/13 13:51	40
Methylcyclohexane	0.40	U	0.40	0.034	mg/Kg			03/24/13 13:51	40
Methylene Chloride	0.20	U	0.20	0.039	mg/Kg			03/24/13 13:51	40
4-Methyl-2-pentanone	1.0	U	1.0	0.17	mg/Kg			03/24/13 13:51	40
Methyl tert-butyl ether	0.40	U	0.40	0.040	mg/Kg			03/24/13 13:51	40
Naphthalene	0.20	U	0.20	0.048	mg/Kg			03/24/13 13:51	40
n-Butylbenzene	0.20	U	0.20	0.096	mg/Kg			03/24/13 13:51	40
N-Propylbenzene	0.20	U	0.20	0.11	mg/Kg			03/24/13 13:51	40
p-Isopropyltoluene	0.20	U	0.20	0.088	mg/Kg			03/24/13 13:51	40
sec-Butylbenzene	0.20	U	0.20	0.084	mg/Kg			03/24/13 13:51	40
Styrene	0.20	U	0.20	0.037	mg/Kg			03/24/13 13:51	40
tert-Butylbenzene	0.20	U	0.20	0.072	mg/Kg			03/24/13 13:51	40

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

Lab Sample ID: MB 680-270603/7
Matrix: Solid
Analysis Batch: 270603

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.20	U	0.20	0.096	mg/Kg			03/24/13 13:51	40
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.064	mg/Kg			03/24/13 13:51	40
Tetrachloroethene	0.20	U	0.20	0.076	mg/Kg			03/24/13 13:51	40
Toluene	0.20	U	0.20	0.034	mg/Kg			03/24/13 13:51	40
trans-1,2-Dichloroethene	0.20	U	0.20	0.025	mg/Kg			03/24/13 13:51	40
trans-1,3-Dichloropropene	0.20	U	0.20	0.035	mg/Kg			03/24/13 13:51	40
1,2,3-Trichlorobenzene	0.20	U	0.20	0.064	mg/Kg			03/24/13 13:51	40
1,2,4-Trichlorobenzene	0.20	U	0.20	0.036	mg/Kg			03/24/13 13:51	40
1,1,1-Trichloroethane	0.20	U	0.20	0.024	mg/Kg			03/24/13 13:51	40
1,1,2-Trichloroethane	0.20	U	0.20	0.052	mg/Kg			03/24/13 13:51	40
Trichloroethene	0.20	U	0.20	0.052	mg/Kg			03/24/13 13:51	40
Trichlorofluoromethane	0.20	U	0.20	0.048	mg/Kg			03/24/13 13:51	40
1,2,3-Trichloropropane	0.20	U	0.20	0.096	mg/Kg			03/24/13 13:51	40
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	0.052	mg/Kg			03/24/13 13:51	40
1,2,4-Trimethylbenzene	0.20	U	0.20	0.056	mg/Kg			03/24/13 13:51	40
1,3,5-Trimethylbenzene	0.20	U	0.20	0.068	mg/Kg			03/24/13 13:51	40
Vinyl chloride	0.20	U	0.20	0.060	mg/Kg			03/24/13 13:51	40
Xylenes, Total	0.40	U	0.40	0.044	mg/Kg			03/24/13 13:51	40

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*65 - 130*		*03/24/13 13:51*	*40*
Dibromofluoromethane	*107*		*65 - 130*		*03/24/13 13:51*	*40*
Toluene-d8 (Surr)	*102*		*65 - 130*		*03/24/13 13:51*	*40*

Lab Sample ID: LCS 680-270603/4
Matrix: Solid
Analysis Batch: 270603

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	5.00	6.39		mg/Kg		128	54 - 139
Benzene	2.50	2.47		mg/Kg		99	76 - 120
Bromobenzene	2.50	2.48		mg/Kg		99	77 - 131
Bromochloromethane	2.50	2.47		mg/Kg		99	80 - 120
Bromodichloromethane	2.50	2.46		mg/Kg		98	72 - 131
Bromoform	2.50	2.55		mg/Kg		102	64 - 150
Bromomethane	2.50	0.814		mg/Kg		33	10 - 174
2-Butanone	5.00	4.79		mg/Kg		96	66 - 123
Carbon disulfide	2.50	2.54		mg/Kg		102	74 - 125
Carbon tetrachloride	2.50	2.35		mg/Kg		94	67 - 140
Chlorobenzene	2.50	2.48		mg/Kg		99	80 - 120
Chlorodibromomethane	2.50	2.42		mg/Kg		97	77 - 132
Chloroethane	2.50	2.44		mg/Kg		98	10 - 176
Chloroform	2.50	2.50		mg/Kg		100	80 - 121
Chloromethane	2.50	2.89		mg/Kg		116	48 - 146
2-Chlorotoluene	2.50	2.49		mg/Kg		99	77 - 124
4-Chlorotoluene	2.50	2.55		mg/Kg		102	78 - 124
cis-1,2-Dichloroethene	2.50	2.52		mg/Kg		101	80 - 120
cis-1,3-Dichloropropene	2.50	2.51		mg/Kg		101	74 - 125

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

Lab Sample ID: LCS 680-270603/4
Matrix: Solid
Analysis Batch: 270603

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyclohexane	2.50	2.38		mg/Kg		95	70 - 130
1,2-Dibromo-3-Chloropropane	2.50	2.72		mg/Kg		109	49 - 152
1,2-Dibromoethane	2.50	2.58		mg/Kg		103	72 - 129
Dibromomethane	2.50	2.49		mg/Kg		100	73 - 127
1,2-Dichlorobenzene	2.50	2.49		mg/Kg		100	75 - 128
1,3-Dichlorobenzene	2.50	2.49		mg/Kg		100	76 - 128
1,4-Dichlorobenzene	2.50	2.49		mg/Kg		100	76 - 128
Dichlorodifluoromethane	2.50	2.67		mg/Kg		107	72 - 134
1,1-Dichloroethane	2.50	2.51		mg/Kg		100	80 - 120
1,2-Dichloroethane	2.50	2.36		mg/Kg		94	61 - 140
1,1-Dichloroethene	2.50	2.60		mg/Kg		104	64 - 138
1,2-Dichloropropane	2.50	2.48		mg/Kg		99	73 - 121
1,3-Dichloropropane	2.50	2.49		mg/Kg		100	70 - 126
2,2-Dichloropropane	2.50	2.48		mg/Kg		99	78 - 126
1,1-Dichloropropene	2.50	2.40		mg/Kg		96	74 - 124
Ethylbenzene	2.50	2.48		mg/Kg		99	78 - 121
Hexachlorobutadiene	2.50	2.56		mg/Kg		103	70 - 146
2-Hexanone	5.00	4.59		mg/Kg		92	60 - 126
Isopropylbenzene	2.50	2.53		mg/Kg		101	79 - 124
Methyl acetate	2.50	2.42		mg/Kg		97	43 - 135
Methylcyclohexane	2.50	2.53		mg/Kg		101	77 - 118
Methylene Chloride	2.50	2.55		mg/Kg		102	80 - 120
4-Methyl-2-pentanone	5.00	4.71		mg/Kg		94	59 - 127
Methyl tert-butyl ether	5.00	5.07		mg/Kg		101	80 - 121
Naphthalene	2.50	2.63		mg/Kg		105	71 - 138
n-Butylbenzene	2.50	2.60		mg/Kg		104	78 - 121
N-Propylbenzene	2.50	2.54		mg/Kg		102	78 - 125
p-Isopropyltoluene	2.50	2.55		mg/Kg		102	78 - 125
sec-Butylbenzene	2.50	2.55		mg/Kg		102	77 - 123
Styrene	2.50	2.58		mg/Kg		103	78 - 123
tert-Butylbenzene	2.50	2.52		mg/Kg		101	79 - 127
1,1,1,2-Tetrachloroethane	2.50	2.49		mg/Kg		100	80 - 129
1,1,2,2-Tetrachloroethane	2.50	2.55		mg/Kg		102	70 - 123
Tetrachloroethene	2.50	2.38		mg/Kg		95	77 - 130
Toluene	2.50	2.48		mg/Kg		99	73 - 122
trans-1,2-Dichloroethene	2.50	2.57		mg/Kg		103	79 - 120
trans-1,3-Dichloropropene	2.50	2.48		mg/Kg		99	69 - 133
1,2,3-Trichlorobenzene	2.50	2.56		mg/Kg		103	74 - 146
1,2,4-Trichlorobenzene	2.50	2.62		mg/Kg		105	77 - 142
1,1,1-Trichloroethane	2.50	2.36		mg/Kg		94	73 - 132
1,1,2-Trichloroethane	2.50	2.53		mg/Kg		101	72 - 124
Trichloroethene	2.50	2.36		mg/Kg		94	78 - 125
Trichlorofluoromethane	2.50	2.35		mg/Kg		94	60 - 148
1,2,3-Trichloropropane	2.50	2.46		mg/Kg		98	67 - 132
1,1,2-Trichloro-1,2,2-trifluoroethane	2.50	2.54		mg/Kg		102	62 - 141
1,2,4-Trimethylbenzene	2.50	2.52		mg/Kg		101	77 - 126
1,3,5-Trimethylbenzene	2.50	2.57		mg/Kg		103	77 - 126

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

Lab Sample ID: LCS 680-270603/4
Matrix: Solid
Analysis Batch: 270603

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Vinyl chloride			2.50	2.77		mg/Kg		111	65 - 133		
Xylenes, Total			7.50	7.51		mg/Kg		100	79 - 121		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*65 - 130*
Dibromofluoromethane	*101*		*65 - 130*
Toluene-d8 (Surr)	*101*		*65 - 130*

Lab Sample ID: LCSD 680-270603/5
Matrix: Solid
Analysis Batch: 270603

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			5.00	5.86		mg/Kg		117	54 - 139	9	50
Benzene			2.50	2.44		mg/Kg		98	76 - 120	1	50
Bromobenzene			2.50	2.44		mg/Kg		98	77 - 131	2	50
Bromochloromethane			2.50	2.49		mg/Kg		100	80 - 120	1	50
Bromodichloromethane			2.50	2.41		mg/Kg		97	72 - 131	2	50
Bromoform			2.50	2.40		mg/Kg		96	64 - 150	6	50
Bromomethane			2.50	0.794		mg/Kg		32	10 - 174	3	50
2-Butanone			5.00	4.53		mg/Kg		91	66 - 123	6	50
Carbon disulfide			2.50	2.50		mg/Kg		100	74 - 125	2	50
Carbon tetrachloride			2.50	2.32		mg/Kg		93	67 - 140	1	50
Chlorobenzene			2.50	2.42		mg/Kg		97	80 - 120	2	50
Chlorodibromomethane			2.50	2.38		mg/Kg		95	77 - 132	2	50
Chloroethane			2.50	2.37		mg/Kg		95	10 - 176	3	50
Chloroform			2.50	2.47		mg/Kg		99	80 - 121	1	50
Chloromethane			2.50	2.82		mg/Kg		113	48 - 146	3	50
2-Chlorotoluene			2.50	2.44		mg/Kg		98	77 - 124	2	50
4-Chlorotoluene			2.50	2.45		mg/Kg		98	78 - 124	4	50
cis-1,2-Dichloroethene			2.50	2.53		mg/Kg		101	80 - 120	0	50
cis-1,3-Dichloropropene			2.50	2.41		mg/Kg		96	74 - 125	4	50
Cyclohexane			2.50	2.45		mg/Kg		98	70 - 130	3	50
1,2-Dibromo-3-Chloropropane			2.50	2.36		mg/Kg		95	49 - 152	14	50
1,2-Dibromoethane			2.50	2.44		mg/Kg		98	72 - 129	5	50
Dibromomethane			2.50	2.43		mg/Kg		97	73 - 127	2	50
1,2-Dichlorobenzene			2.50	2.40		mg/Kg		96	75 - 128	4	50
1,3-Dichlorobenzene			2.50	2.41		mg/Kg		96	76 - 128	3	50
1,4-Dichlorobenzene			2.50	2.41		mg/Kg		97	76 - 128	3	50
Dichlorodifluoromethane			2.50	2.61		mg/Kg		104	72 - 134	3	50
1,1-Dichloroethane			2.50	2.47		mg/Kg		99	80 - 120	2	50
1,2-Dichloroethane			2.50	2.29		mg/Kg		92	61 - 140	3	50
1,1-Dichloroethene			2.50	2.50		mg/Kg		100	64 - 138	4	50
1,2-Dichloropropane			2.50	2.41		mg/Kg		96	73 - 121	3	50
1,3-Dichloropropane			2.50	2.44		mg/Kg		98	70 - 126	2	50
2,2-Dichloropropane			2.50	2.48		mg/Kg		99	78 - 126	0	50
1,1-Dichloropropene			2.50	2.38		mg/Kg		95	74 - 124	1	50
Ethylbenzene			2.50	2.43		mg/Kg		97	78 - 121	2	50

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

Lab Sample ID: LCSD 680-270603/5
Matrix: Solid
Analysis Batch: 270603

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobutadiene	2.50	2.49		mg/Kg		99	70 - 146	3	50
2-Hexanone	5.00	4.30		mg/Kg		86	60 - 126	6	50
Isopropylbenzene	2.50	2.47		mg/Kg		99	79 - 124	2	50
Methyl acetate	2.50	2.40		mg/Kg		96	43 - 135	1	50
Methylcyclohexane	2.50	2.47		mg/Kg		99	77 - 118	2	50
Methylene Chloride	2.50	2.50		mg/Kg		100	80 - 120	2	50
4-Methyl-2-pentanone	5.00	4.65		mg/Kg		93	59 - 127	1	50
Methyl tert-butyl ether	5.00	4.96		mg/Kg		99	80 - 121	2	50
Naphthalene	2.50	2.51		mg/Kg		100	71 - 138	5	50
n-Butylbenzene	2.50	2.52		mg/Kg		101	78 - 121	3	50
N-Propylbenzene	2.50	2.45		mg/Kg		98	78 - 125	4	50
p-Isopropyltoluene	2.50	2.51		mg/Kg		101	78 - 125	1	50
sec-Butylbenzene	2.50	2.48		mg/Kg		99	77 - 123	3	50
Styrene	2.50	2.47		mg/Kg		99	78 - 123	4	50
tert-Butylbenzene	2.50	2.44		mg/Kg		98	79 - 127	3	50
1,1,1,2-Tetrachloroethane	2.50	2.44		mg/Kg		98	80 - 129	2	50
1,1,2,2-Tetrachloroethane	2.50	2.42		mg/Kg		97	70 - 123	5	50
Tetrachloroethene	2.50	2.39		mg/Kg		96	77 - 130	0	50
Toluene	2.50	2.47		mg/Kg		99	73 - 122	0	50
trans-1,2-Dichloroethene	2.50	2.50		mg/Kg		100	79 - 120	3	50
trans-1,3-Dichloropropene	2.50	2.41		mg/Kg		96	69 - 133	3	50
1,2,3-Trichlorobenzene	2.50	2.50		mg/Kg		100	74 - 146	3	50
1,2,4-Trichlorobenzene	2.50	2.48		mg/Kg		99	77 - 142	6	50
1,1,1-Trichloroethane	2.50	2.38		mg/Kg		95	73 - 132	1	50
1,1,2-Trichloroethane	2.50	2.41		mg/Kg		96	72 - 124	5	50
Trichloroethene	2.50	2.41		mg/Kg		96	78 - 125	2	50
Trichlorofluoromethane	2.50	2.31		mg/Kg		93	60 - 148	2	50
1,2,3-Trichloropropane	2.50	2.36		mg/Kg		95	67 - 132	4	50
1,1,2-Trichloro-1,2,2-trifluoroethane	2.50	2.45		mg/Kg		98	62 - 141	4	50
1,2,4-Trimethylbenzene	2.50	2.45		mg/Kg		98	77 - 126	3	50
1,3,5-Trimethylbenzene	2.50	2.50		mg/Kg		100	77 - 126	3	50
Vinyl chloride	2.50	2.70		mg/Kg		108	65 - 133	2	50
Xylenes, Total	7.50	7.28		mg/Kg		97	79 - 121	3	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*65 - 130*
Dibromofluoromethane	*102*		*65 - 130*
Toluene-d8 (Surr)	*98*		*65 - 130*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-180202/1-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.033	U	0.033	0.0099	mg/Kg		03/18/13 16:41	03/22/13 21:27	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-180202/1-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.033	U	0.033	0.0076	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Acetophenone	0.33	U	0.33	0.060	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2-Acetylaminofluorene	0.17	U	0.17	0.031	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
alpha,alpha-Dimethyl phenethylamine	1.3	U	1.3	0.39	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
4-Aminobiphenyl	0.17	U	0.17	0.067	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Aniline	0.67	U	0.67	0.30	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Anthracene	0.033	U	0.033	0.0078	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Aramite	0.17	U	0.17	0.033	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Benzenethiol	0.67	U	0.67	0.33	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Benzidine	0.67	U	0.67	0.33	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Benzo[a]anthracene	0.033	U	0.033	0.0070	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Benzo[a]pyrene	0.033	U	0.033	0.0061	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Benzo[b]fluoranthene	0.033	U	0.033	0.0065	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Benzo[g,h,i]perylene	0.033	U	0.033	0.011	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Benzoic acid	1.7	U	1.7	0.46	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Benzo[k]fluoranthene	0.033	U	0.033	0.0079	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Benzyl alcohol	0.33	U	0.33	0.099	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Bis(2-chloroethoxy)methane	0.17	U	0.17	0.037	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Bis(2-chloroethyl)ether	0.17	U	0.17	0.049	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Bis(2-ethylhexyl) phthalate	0.17	U	0.17	0.044	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
4-Bromophenyl phenyl ether	0.17	U	0.17	0.037	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Butyl benzyl phthalate	0.17	U	0.17	0.042	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Carbofuran	0.33	U	0.33	0.077	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
4-Chloroaniline	0.67	U	0.67	0.10	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
4-Chloro-3-methylphenol	0.33	U	0.33	0.16	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2-Chloronaphthalene	0.17	U	0.17	0.037	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2-Chlorophenol	0.17	U	0.17	0.048	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
4-Chlorophenyl phenyl ether	0.17	U	0.17	0.052	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Chrysene	0.033	U	0.033	0.0075	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Diallate	0.17	U	0.17	0.033	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Dibenz(a,h)anthracene	0.033	U	0.033	0.0093	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Dibenz[a,j]acridine	0.17	U	0.17	0.018	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Dibenzofuran	0.17	U	0.17	0.040	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
1,2-Dichlorobenzene	0.17	U	0.17	0.036	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
1,3-Dichlorobenzene	0.17	U	0.17	0.035	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
1,4-Dichlorobenzene	0.17	U	0.17	0.035	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
3,3'-Dichlorobenzidine	0.17	U	0.17	0.028	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2,4-Dichlorophenol	0.33	U	0.33	0.10	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2,6-Dichlorophenol	0.17	U	0.17	0.047	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Diethyl phthalate	0.17	U	0.17	0.055	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Diethylstilbestrol	0.67	U	0.67	0.083	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Dimethoate	0.33	U	0.33	0.075	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
7,12-Dimethylbenz(a)anthracene	0.17	U	0.17	0.041	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
3,3'-Dimethylbenzidine	0.67	U	0.67	0.17	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2,4-Dimethylphenol	0.33	U	0.33	0.10	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Dimethyl phthalate	0.17	U	0.17	0.042	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Di-n-butyl phthalate	0.17	U	0.17	0.042	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
1,4-Dinitrobenzene	0.17	U	0.17	0.026	mg/Kg		03/18/13 16:41	03/22/13 21:27	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-180202/1-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	0.33	U	0.33	0.081	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2,4-Dinitrophenol	0.67	U	0.67	0.17	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2,4-Dinitrotoluene	0.17	U	0.17	0.051	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2,6-Dinitrotoluene	0.17	U	0.17	0.040	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Di-n-octyl phthalate	0.17	U	0.17	0.067	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Dinoseb	0.33	U	0.33	0.086	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
1,4-Dioxane	0.67	U	0.67	0.23	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Diphenylamine	0.17	U	0.17	0.038	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
1,2-Diphenylhydrazine	0.17	U	0.17	0.042	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Disulfoton	0.33	U	0.33	0.050	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Ethyl 4,4'-Dichlorobenzilate	0.17	U	0.17	0.021	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Ethyl methanesulfonate	0.17	U	0.17	0.019	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Ethyl Parathion	0.33	U	0.33	0.093	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Famphur	0.33	U	0.33	0.054	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Fluoranthene	0.033	U	0.033	0.014	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Fluorene	0.033	U	0.033	0.0076	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Hexachlorobenzene	0.067	U	0.067	0.0065	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Hexachlorobutadiene	0.17	U	0.17	0.044	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Hexachlorocyclopentadiene	0.67	U	0.67	0.15	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Hexachloroethane	0.17	U	0.17	0.035	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Hexachlorophene	3.3	U	3.3	1.2	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Hexachloropropene	0.33	U	0.33	0.13	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Indeno[1,2,3-cd]pyrene	0.033	U	0.033	0.011	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Isophorone	0.17	U	0.17	0.037	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Isosafrole	0.17	U	0.17	0.018	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Kepone	0.67	U	0.67	0.33	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Malathion	0.33	U	0.33	0.099	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
m-Dinitrobenzene	0.17	U	0.17	0.031	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Methapyrilene	1.3	U	1.3	0.17	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
3-Methylcholanthrene	0.17	U	0.17	0.014	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Methyl methanesulfonate	0.17	U	0.17	0.027	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2-Methylnaphthalene	0.17	U	0.17	0.043	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Methyl parathion	0.33	U	0.33	0.094	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2-Methylphenol	0.17	U	0.17	0.044	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
3 & 4 Methylphenol	0.17	U	0.17	0.063	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Naphthalene	0.033	U	0.033	0.0064	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
1,4-Naphthoquinone	0.67	U	0.67	0.33	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
1-Naphthylamine	0.17	U	0.17	0.026	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2-Naphthylamine	0.17	U	0.17	0.045	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2-Nitroaniline	0.17	U	0.17	0.060	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
3-Nitroaniline	0.33	U	0.33	0.064	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
4-Nitroaniline	0.33	U	0.33	0.068	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Nitrobenzene	0.033	U	0.033	0.010	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
5-Nitro-o-toluidine	0.17	U	0.17	0.031	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2-Nitrophenol	0.33	U	0.33	0.052	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
4-Nitrophenol	0.67	U	0.67	0.18	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
4-Nitroquinoline-1-oxide	0.67	U	0.67	0.31	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
N-Nitrosodiethylamine	0.33	U	0.33	0.095	mg/Kg		03/18/13 16:41	03/22/13 21:27	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-180202/1-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	0.67	U	0.67	0.36	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
N-Nitrosodi-n-butylamine	0.17	U	0.17	0.060	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
N-Nitrosodi-n-propylamine	0.17	U	0.17	0.042	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
N-Nitrosodiphenylamine	0.17	U	0.17	0.045	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
N-Nitrosomethylethylamine	0.67	U	0.67	0.27	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
N-Nitrosomorpholine	0.17	U	0.17	0.031	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
N-Nitrosopiperidine	0.33	U	0.33	0.031	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
N-Nitrosopyrrolidine	0.17	U	0.17	0.038	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
o,o',o''-Triethylphosphorothioate	0.33	U	0.33	0.051	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
o-Toluidine	0.17	U	0.17	0.032	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2,2'-oxybis[1-chloropropane]	0.17	U	0.17	0.037	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
p-Dimethylamino azobenzene	0.17	U	0.17	0.018	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Pentachlorobenzene	0.17	U	0.17	0.042	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Pentachloronitrobenzene	0.17	U	0.17	0.024	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Pentachlorophenol	0.67	U	0.67	0.17	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Phenacetin	0.17	U	0.17	0.035	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Phenanthrene	0.033	U	0.033	0.014	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Phenol	0.17	U	0.17	0.053	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Phorate	0.33	U	0.33	0.070	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2-Picoline	0.33	U	0.33	0.13	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
p-Phenylene diamine	1.3	U	1.3	0.070	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Pronamide	0.17	U	0.17	0.027	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Pyrene	0.033	U	0.033	0.012	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Pyridine	0.67	U	0.67	0.39	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Safrole	0.17	U	0.17	0.016	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Sulfotepp	0.33	U	0.33	0.066	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
sym-Trinitrobenzene	0.67	U	0.67	0.34	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
1,2,4,5-Tetrachlorobenzene	0.17	U	0.17	0.039	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2,3,4,6-Tetrachlorophenol	0.17	U	0.17	0.045	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
Thionazin	0.33	U	0.33	0.074	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
1,2,4-Trichlorobenzene	0.17	U	0.17	0.038	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2,4,5-Trichlorophenol	0.33	U	0.33	0.095	mg/Kg		03/18/13 16:41	03/22/13 21:27	1
2,4,6-Trichlorophenol	0.33	U	0.33	0.042	mg/Kg		03/18/13 16:41	03/22/13 21:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*30 - 119*	*03/18/13 16:41*	*03/22/13 21:27*	*1*
2-Fluorophenol	*72*		*30 - 110*	*03/18/13 16:41*	*03/22/13 21:27*	*1*
Nitrobenzene-d5	*74*		*30 - 115*	*03/18/13 16:41*	*03/22/13 21:27*	*1*
Phenol-d5	*70*		*31 - 110*	*03/18/13 16:41*	*03/22/13 21:27*	*1*
Terphenyl-d14	*84*		*36 - 134*	*03/18/13 16:41*	*03/22/13 21:27*	*1*
2,4,6-Tribromophenol	*61*		*35 - 137*	*03/18/13 16:41*	*03/22/13 21:27*	*1*

Lab Sample ID: LCS 500-180202/2-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1.67	1.22		mg/Kg		73	53 - 110

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-180202/2-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	1.67	1.19		mg/Kg		71	51 - 110
Acetophenone	1.67	0.940		mg/Kg		56	35 - 100
Aniline	1.67	0.733		mg/Kg		44	34 - 100
Anthracene	1.67	1.33		mg/Kg		80	52 - 110
Benzidine	1.67	0.67	U *	mg/Kg		6	10 - 100
Benzo[a]anthracene	1.67	1.26		mg/Kg		76	57 - 110
Benzo[a]pyrene	1.67	1.32		mg/Kg		79	56 - 110
Benzo[b]fluoranthene	1.67	1.28		mg/Kg		77	50 - 110
Benzo[g,h,i]perylene	1.67	1.34		mg/Kg		80	54 - 117
Benzoic acid	1.67	1.7	U *	mg/Kg		0	10 - 100
Benzo[k]fluoranthene	1.67	1.37		mg/Kg		82	43 - 121
Benzyl alcohol	1.67	1.19		mg/Kg		71	44 - 110
Bis(2-chloroethoxy)methane	1.67	1.22		mg/Kg		73	56 - 110
Bis(2-chloroethyl)ether	1.67	1.24		mg/Kg		74	48 - 110
Bis(2-ethylhexyl) phthalate	1.67	1.38		mg/Kg		83	56 - 114
4-Bromophenyl phenyl ether	1.67	1.32		mg/Kg		79	58 - 111
Butyl benzyl phthalate	1.67	1.43		mg/Kg		86	60 - 120
4-Chloroaniline	1.67	0.863		mg/Kg		52	25 - 110
4-Chloro-3-methylphenol	1.67	1.11		mg/Kg		67	54 - 111
2-Chloronaphthalene	1.67	1.26		mg/Kg		75	54 - 110
2-Chlorophenol	1.67	1.17		mg/Kg		70	53 - 110
4-Chlorophenyl phenyl ether	1.67	1.24		mg/Kg		74	57 - 110
Chrysene	1.67	1.28		mg/Kg		77	54 - 110
Dibenz(a,h)anthracene	1.67	1.38		mg/Kg		83	52 - 118
Dibenzofuran	1.67	1.23		mg/Kg		74	54 - 110
1,2-Dichlorobenzene	1.67	1.16		mg/Kg		70	55 - 110
1,3-Dichlorobenzene	1.67	1.09		mg/Kg		66	52 - 110
1,4-Dichlorobenzene	1.67	1.12		mg/Kg		67	52 - 110
3,3'-Dichlorobenzidine	1.67	1.04		mg/Kg		63	31 - 110
2,4-Dichlorophenol	1.67	1.13		mg/Kg		68	60 - 110
2,6-Dichlorophenol	1.67	1.18		mg/Kg		71	63 - 110
Diethyl phthalate	1.67	1.26		mg/Kg		75	58 - 112
3,3'-Dimethylbenzidine	1.67	0.307	J	mg/Kg		18	10 - 100
2,4-Dimethylphenol	1.67	1.13		mg/Kg		68	52 - 110
Dimethyl phthalate	1.67	1.24		mg/Kg		74	60 - 110
Di-n-butyl phthalate	1.67	1.50		mg/Kg		90	56 - 117
4,6-Dinitro-2-methylphenol	1.67	0.522		mg/Kg		31	10 - 110
2,4-Dinitrophenol	1.67	0.482	J	mg/Kg		29	10 - 110
2,4-Dinitrotoluene	1.67	1.20		mg/Kg		72	57 - 116
2,6-Dinitrotoluene	1.67	1.18		mg/Kg		71	60 - 110
Di-n-octyl phthalate	1.67	1.53		mg/Kg		92	49 - 121
Dinoseb	1.67	0.748	*	mg/Kg		45	50 - 150
1,4-Dioxane	1.67	0.489	J	mg/Kg		29	10 - 100
1,2-Diphenylhydrazine	1.67	1.30		mg/Kg		78	53 - 112
Fluoranthene	1.67	1.34		mg/Kg		80	55 - 113
Fluorene	1.67	1.32		mg/Kg		79	52 - 112
Hexachlorobenzene	1.67	1.25		mg/Kg		75	54 - 114
Hexachlorobutadiene	1.67	1.21		mg/Kg		73	53 - 110

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-180202/2-A
Matrix: Solid
Analysis Batch: 180723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorocyclopentadiene	1.67	0.940		mg/Kg		56	10 - 112
Hexachloroethane	1.67	1.20		mg/Kg		72	51 - 110
Hexachlorophene	1.67	3.3	U	mg/Kg		39	10 - 110
Hexachloropropene	1.67	1.20		mg/Kg		72	54 - 110
Indeno[1,2,3-cd]pyrene	1.67	1.36		mg/Kg		82	53 - 116
Isophorone	1.67	1.14		mg/Kg		69	49 - 110
2-Methylnaphthalene	1.67	1.20		mg/Kg		72	51 - 110
2-Methylphenol	1.67	1.08		mg/Kg		65	48 - 110
3 & 4 Methylphenol	1.67	1.36		mg/Kg		82	44 - 121
Naphthalene	1.67	1.29		mg/Kg		77	48 - 110
2-Nitroaniline	1.67	1.27		mg/Kg		76	53 - 126
3-Nitroaniline	1.67	0.856		mg/Kg		51	36 - 110
4-Nitroaniline	1.67	1.02		mg/Kg		61	44 - 124
Nitrobenzene	1.67	1.20		mg/Kg		72	52 - 110
2-Nitrophenol	1.67	1.20		mg/Kg		72	54 - 112
4-Nitrophenol	1.67	1.58		mg/Kg		95	39 - 125
N-Nitrosodiethylamine	1.67	1.15		mg/Kg		69	50 - 110
N-Nitrosodimethylamine	1.67	1.03		mg/Kg		62	42 - 110
N-Nitrosodi-n-butylamine	1.67	1.23		mg/Kg		74	46 - 138
N-Nitrosodi-n-propylamine	1.67	1.42		mg/Kg		85	40 - 121
N-Nitrosodiphenylamine	1.67	1.27		mg/Kg		76	58 - 110
N-Nitrosomethylethylamine	1.67	1.22		mg/Kg		73	49 - 114
N-Nitrosopiperidine	1.67	1.18		mg/Kg		71	56 - 123
N-Nitrosopyrrolidine	1.67	1.25		mg/Kg		75	46 - 116
2,2'-oxybis[1-chloropropane]	1.67	1.23		mg/Kg		74	36 - 110
Pentachlorobenzene	1.67	1.22		mg/Kg		73	70 - 110
Pentachlorophenol	1.67	0.906		mg/Kg		54	20 - 117
Phenanthrene	1.67	1.18		mg/Kg		71	51 - 116
Phenol	1.67	1.24		mg/Kg		74	49 - 110
Pyrene	1.67	1.28		mg/Kg		77	50 - 112
Pyridine	1.67	0.911		mg/Kg		55	24 - 100
1,2,4,5-Tetrachlorobenzene	1.67	1.31		mg/Kg		79	63 - 110
2,3,4,6-Tetrachlorophenol	1.67	1.07		mg/Kg		64	45 - 116
1,2,4-Trichlorobenzene	1.67	1.18		mg/Kg		71	57 - 110
2,4,5-Trichlorophenol	1.67	1.17		mg/Kg		70	57 - 113
2,4,6-Trichlorophenol	1.67	1.23		mg/Kg		74	55 - 112

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*88*		*30 - 119*
2-Fluorophenol	*79*		*30 - 110*
Nitrobenzene-d5	*82*		*30 - 115*
Phenol-d5	*79*		*31 - 110*
Terphenyl-d14	*88*		*36 - 134*
2,4,6-Tribromophenol	*68*		*35 - 137*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-180211/1-A
Matrix: Solid
Analysis Batch: 180355

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180211

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0017	U	0.0017	0.00069	mg/Kg		03/18/13 18:27	03/20/13 19:36	1
alpha-BHC	0.0017	U	0.0017	0.00042	mg/Kg		03/18/13 18:27	03/20/13 19:36	1
beta-BHC	0.0017	U	0.0017	0.00052	mg/Kg		03/18/13 18:27	03/20/13 19:36	1
Chlordane (technical)	0.0067	U	0.0067	0.0033	mg/Kg		03/18/13 18:27	03/20/13 19:36	1
4,4'-DDD	0.0017	U	0.0017	0.00033	mg/Kg		03/18/13 18:27	03/20/13 19:36	1
4,4'-DDE	0.0017	U	0.0017	0.00028	mg/Kg		03/18/13 18:27	03/20/13 19:36	1
4,4'-DDT	0.0017	U	0.0017	0.00088	mg/Kg		03/18/13 18:27	03/20/13 19:36	1
delta-BHC	0.0017	U	0.0017	0.00053	mg/Kg		03/18/13 18:27	03/20/13 19:36	1
Dieldrin	0.0017	U	0.0017	0.00023	mg/Kg		03/18/13 18:27	03/20/13 19:36	1
Endosulfan I	0.0017	U	0.0017	0.00073	mg/Kg		03/18/13 18:27	03/20/13 19:36	1
Endosulfan II	0.0017	U	0.0017	0.00027	mg/Kg		03/18/13 18:27	03/20/13 19:36	1
Endosulfan sulfate	0.0017	U	0.0017	0.00031	mg/Kg		03/18/13 18:27	03/20/13 19:36	1
Endrin	0.0017	U	0.0017	0.00023	mg/Kg		03/18/13 18:27	03/20/13 19:36	1
Endrin aldehyde	0.0017	U	0.0017	0.00028	mg/Kg		03/18/13 18:27	03/20/13 19:36	1
Endrin ketone	0.0017	U	0.0017	0.00038	mg/Kg		03/18/13 18:27	03/20/13 19:36	1
gamma-BHC (Lindane)	0.0017	U	0.0017	0.00036	mg/Kg		03/18/13 18:27	03/20/13 19:36	1
Heptachlor	0.0017	U	0.0017	0.00070	mg/Kg		03/18/13 18:27	03/20/13 19:36	1
Heptachlor epoxide	0.0017	U	0.0017	0.00059	mg/Kg		03/18/13 18:27	03/20/13 19:36	1
Isodrin	0.0017	U	0.0017	0.00078	mg/Kg		03/18/13 18:27	03/20/13 19:36	1
Methoxychlor	0.0083	U	0.0083	0.00032	mg/Kg		03/18/13 18:27	03/20/13 19:36	1
Toxaphene	0.017	U	0.017	0.0070	mg/Kg		03/18/13 18:27	03/20/13 19:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*85*		*56 - 128*	*03/18/13 18:27*	*03/20/13 19:36*	*1*
Tetrachloro-m-xylene	*75*		*45 - 112*	*03/18/13 18:27*	*03/20/13 19:36*	*1*

Lab Sample ID: LCS 500-180211/2-A
Matrix: Solid
Analysis Batch: 180355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180211

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.0133	0.00844		mg/Kg		63	54 - 110
alpha-BHC	0.0133	0.00779		mg/Kg		58	53 - 110
beta-BHC	0.0133	0.00967		mg/Kg		72	65 - 110
4,4'-DDD	0.0133	0.0107		mg/Kg		80	66 - 110
4,4'-DDE	0.0133	0.0103		mg/Kg		77	64 - 110
4,4'-DDT	0.0133	0.00987		mg/Kg		74	50 - 115
delta-BHC	0.0133	0.00863		mg/Kg		65	50 - 110
Dieldrin	0.0133	0.0102		mg/Kg		76	63 - 110
Endosulfan I	0.0133	0.00973		mg/Kg		73	51 - 110
Endosulfan II	0.0133	0.0102		mg/Kg		77	56 - 110
Endosulfan sulfate	0.0133	0.0106		mg/Kg		80	63 - 120
Endrin	0.0133	0.00949		mg/Kg		71	59 - 110
Endrin aldehyde	0.0133	0.00980		mg/Kg		74	56 - 110
Endrin ketone	0.0133	0.0107		mg/Kg		81	59 - 120
gamma-BHC (Lindane)	0.0133	0.00808		mg/Kg		61	55 - 110
Heptachlor	0.0133	0.00900		mg/Kg		68	50 - 110
Heptachlor epoxide	0.0133	0.0102		mg/Kg		77	50 - 122

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-180211/2-A
Matrix: Solid
Analysis Batch: 180355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180211

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methoxychlor	0.0133	0.0102		mg/Kg		77	52 - 119

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*85*		*56 - 128*
Tetrachloro-m-xylene	*59*		*45 - 112*

Lab Sample ID: 680-88399-4 MS
Matrix: Solid
Analysis Batch: 180355

Client Sample ID: DDSB-8-0-2-20130314-01
Prep Type: Total/NA
Prep Batch: 180211

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.019	U	0.0155	0.0177	J F	mg/Kg	☼	115	54 - 110
alpha-BHC	0.019	U	0.0155	0.00826	J	mg/Kg	☼	53	53 - 110
beta-BHC	0.019	U	0.0155	0.00819	J F	mg/Kg	☼	53	65 - 110
4,4'-DDD	0.019	U	0.0155	0.020	U F	mg/Kg	☼	0	66 - 110
4,4'-DDE	0.019	U	0.0155	0.0463	F	mg/Kg	☼	300	64 - 110
4,4'-DDT	0.019	U	0.0155	0.020	U F	mg/Kg	☼	0	50 - 115
delta-BHC	0.019	U	0.0155	0.0110	J	mg/Kg	☼	71	50 - 110
Dieldrin	0.019	U	0.0155	0.0125	J	mg/Kg	☼	81	63 - 110
Endosulfan I	0.019	U	0.0155	0.020	U F	mg/Kg	☼	0	51 - 110
Endosulfan II	0.019	U	0.0155	0.00855	J F	mg/Kg	☼	55	56 - 110
Endosulfan sulfate	0.019	U	0.0155	0.0109	J	mg/Kg	☼	71	63 - 120
Endrin	0.019	U	0.0155	0.00446	J F	mg/Kg	☼	29	59 - 110
Endrin aldehyde	0.019	U	0.0155	0.0111	J	mg/Kg	☼	72	56 - 110
Endrin ketone	0.019	U	0.0155	0.020	U F	mg/Kg	☼	0	59 - 120
gamma-BHC (Lindane)	0.019	U	0.0155	0.00732	J F	mg/Kg	☼	47	55 - 110
Heptachlor	0.019	U	0.0155	0.0115	J	mg/Kg	☼	74	50 - 110
Heptachlor epoxide	0.019	U	0.0155	0.020	U F	mg/Kg	☼	0	50 - 122
Methoxychlor	0.095	U	0.0155	0.0121	J	mg/Kg	☼	78	52 - 119

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*51*	*X*	*56 - 128*
Tetrachloro-m-xylene	*44*	*X*	*45 - 112*

Lab Sample ID: 680-88399-4 MSD
Matrix: Solid
Analysis Batch: 180355

Client Sample ID: DDSB-8-0-2-20130314-01
Prep Type: Total/NA
Prep Batch: 180211

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	0.019	U	0.0155	0.0246	F	mg/Kg	☼	159	54 - 110	33	30
alpha-BHC	0.019	U	0.0155	0.00991	J	mg/Kg	☼	64	53 - 110	18	30
beta-BHC	0.019	U	0.0155	0.00899	J F	mg/Kg	☼	58	65 - 110	9	30
4,4'-DDD	0.019	U	0.0155	0.020	U F	mg/Kg	☼	0	66 - 110	NC	30
4,4'-DDE	0.019	U	0.0155	0.0577	F	mg/Kg	☼	372	64 - 110	22	30
4,4'-DDT	0.019	U	0.0155	0.0105	J	mg/Kg	☼	68	50 - 115	NC	30
delta-BHC	0.019	U	0.0155	0.0128	J	mg/Kg	☼	83	50 - 110	15	30
Dieldrin	0.019	U	0.0155	0.0110	J	mg/Kg	☼	71	63 - 110	13	30
Endosulfan I	0.019	U	0.0155	0.0280	F	mg/Kg	☼	180	51 - 110	NC	30

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 680-88399-4 MSD
Matrix: Solid
Analysis Batch: 180355

Client Sample ID: DDSB-8-0-2-20130314-01
Prep Type: Total/NA
Prep Batch: 180211

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endosulfan II	0.019	U	0.0155	0.0145	J F	mg/Kg	☼	93	56 - 110	52	30
Endosulfan sulfate	0.019	U	0.0155	0.0122	J	mg/Kg	☼	79	63 - 120	11	30
Endrin	0.019	U	0.0155	0.00485	J F	mg/Kg	☼	31	59 - 110	8	30
Endrin aldehyde	0.019	U	0.0155	0.0122	J	mg/Kg	☼	79	56 - 110	10	30
Endrin ketone	0.019	U	0.0155	0.020	U F	mg/Kg	☼	0	59 - 120	NC	30
gamma-BHC (Lindane)	0.019	U	0.0155	0.00994	J	mg/Kg	☼	64	55 - 110	30	30
Heptachlor	0.019	U	0.0155	0.0138	J	mg/Kg	☼	89	50 - 110	19	30
Heptachlor epoxide	0.019	U	0.0155	0.0170	J	mg/Kg	☼	110	50 - 122	NC	30
Methoxychlor	0.095	U	0.0155	0.0201	J F	mg/Kg	☼	130	52 - 119	50	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*47*	*X*	*56 - 128*
Tetrachloro-m-xylene	*63*		*45 - 112*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-180211/1-A
Matrix: Solid
Analysis Batch: 180342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180211

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.017	U	0.017	0.0059	mg/Kg		03/18/13 18:27	03/20/13 15:43	1
PCB-1221	0.017	U	0.017	0.0073	mg/Kg		03/18/13 18:27	03/20/13 15:43	1
PCB-1232	0.017	U	0.017	0.0073	mg/Kg		03/18/13 18:27	03/20/13 15:43	1
PCB-1242	0.017	U	0.017	0.0055	mg/Kg		03/18/13 18:27	03/20/13 15:43	1
PCB-1248	0.017	U	0.017	0.0066	mg/Kg		03/18/13 18:27	03/20/13 15:43	1
PCB-1254	0.017	U	0.017	0.0036	mg/Kg		03/18/13 18:27	03/20/13 15:43	1
PCB-1260	0.017	U	0.017	0.0082	mg/Kg		03/18/13 18:27	03/20/13 15:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*50 - 116*	*03/18/13 18:27*	*03/20/13 15:43*	*1*
DCB Decachlorobiphenyl	*97*		*48 - 142*	*03/18/13 18:27*	*03/20/13 15:43*	*1*

Lab Sample ID: LCS 500-180211/3-A
Matrix: Solid
Analysis Batch: 180342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180211

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			0.167	0.133		mg/Kg		80	59 - 110		
PCB-1260			0.167	0.167		mg/Kg		100	69 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*50 - 116*
DCB Decachlorobiphenyl	*102*		*48 - 142*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 680-88399-4 MS
Matrix: Solid
Analysis Batch: 180342

Client Sample ID: DDSB-8-0-2-20130314-01
Prep Type: Total/NA
Prep Batch: 180211

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.019	U	0.192	0.121		mg/Kg	☼	63	59 - 110
PCB-1260	0.019	U	0.192	0.139		mg/Kg	☼	72	69 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*69*		*50 - 116*
DCB Decachlorobiphenyl	*76*		*48 - 142*

Lab Sample ID: 680-88399-4 MSD
Matrix: Solid
Analysis Batch: 180342

Client Sample ID: DDSB-8-0-2-20130314-01
Prep Type: Total/NA
Prep Batch: 180211

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	0.019	U	0.190	0.120		mg/Kg	☼	63	59 - 110	1	30
PCB-1260	0.019	U	0.190	0.140		mg/Kg	☼	74	69 - 120	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*69*		*50 - 116*
DCB Decachlorobiphenyl	*77*		*48 - 142*

Method: 8141A - Organophosphorous Pesticides (GC)

Lab Sample ID: MB 640-100288/1-A
Matrix: Solid
Analysis Batch: 100656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.064	U	0.064	0.0028	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Azinphos-methyl	0.064	U	0.064	0.015	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Bolstar	0.032	U	0.032	0.0046	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Carbophenthion	0.064	U	0.064	0.0052	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Chlorpyrifos	0.032	U	0.032	0.0066	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Chlorpyrifos-methyl	0.032	U	0.032	0.012	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Coumaphos	0.32	U	0.32	0.021	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Demeton-O	0.081	U	0.081	0.0025	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Demeton-S	0.081	U	0.081	0.0054	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Demeton, Total	0.081	U	0.081	0.0075	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Diazinon	0.032	U	0.032	0.0055	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Dichlofenthion	0.032	U	0.032	0.0041	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Dichlorvos	0.064	U	0.064	0.0062	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Dimethoate	0.064	U	0.064	0.0086	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Disulfoton	0.064	U	0.064	0.016	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
EPN	0.032	U	0.032	0.0044	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Ethion	0.017	U	0.017	0.0052	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Ethoprop	0.017	U	0.017	0.0041	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Ethyl Parathion	0.032	U	0.032	0.0053	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Famphur	0.064	U	0.064	0.0081	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Fensulfothion	0.32	U	0.32	0.012	mg/Kg		03/18/13 14:54	03/28/13 15:20	1

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: MB 640-100288/1-A
Matrix: Solid
Analysis Batch: 100656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fenthion	0.032	U	0.032	0.0046	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Malathion	0.032	U	0.032	0.0080	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Merphos	0.032	U	0.032	0.011	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Methyl parathion	0.017	U	0.017	0.0053	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Mevinphos	0.064	U	0.064	0.0045	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Monochrotophos	0.32	U	0.32	0.045	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Naled	0.32	U	0.32	0.021	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Phorate	0.032	U	0.032	0.0053	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Ronnel	0.032	U	0.032	0.0041	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Simazine	0.064	U	0.064	0.0031	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Stirophos	0.032	U	0.032	0.0062	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Sulfotepp	0.017	U	0.017	0.0084	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Terbufos	0.017	U	0.017	0.016	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Thionazin	0.032	U	0.032	0.0097	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Tokuthion	0.032	U	0.032	0.0053	mg/Kg		03/18/13 14:54	03/28/13 15:20	1
Trichloronate	0.32	U	0.32	0.0074	mg/Kg		03/18/13 14:54	03/28/13 15:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate (TPP)	*89*		*35 - 134*	*03/18/13 14:54*	*03/28/13 15:20*	*1*

Lab Sample ID: LCS 640-100288/2-A
Matrix: Solid
Analysis Batch: 100656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	0.656	0.519		mg/Kg		79	56 - 119
Azinphos-methyl	0.164	0.154		mg/Kg		94	52 - 122
Bolstar	0.164	0.151		mg/Kg		92	55 - 141
Chlorpyrifos	0.164	0.132		mg/Kg		80	40 - 132
Coumaphos	0.164	0.157	J	mg/Kg		96	47 - 160
Demeton, Total	0.328	0.277		mg/Kg		84	31 - 118
Diazinon	0.164	0.129		mg/Kg		79	36 - 113
Dichlofenthion	0.164	0.139		mg/Kg		85	36 - 114
Dichlorvos	0.164	0.110		mg/Kg		67	10 - 154
EPN	0.164	0.200		mg/Kg		122	68 - 159
Ethion	0.164	0.135		mg/Kg		83	49 - 128
Ethoprop	0.164	0.137		mg/Kg		83	23 - 134
Ethyl Parathion	0.164	0.149		mg/Kg		91	53 - 126
Famphur	0.164	0.156		mg/Kg		95	53 - 118
Fensulfothion	0.164	0.173	J	mg/Kg		106	33 - 168
Fenthion	0.164	0.137		mg/Kg		84	41 - 136
Malathion	0.164	0.134		mg/Kg		82	45 - 125
Methyl parathion	0.164	0.149		mg/Kg		91	44 - 126
Mevinphos	0.164	0.149		mg/Kg		91	10 - 156
Monochrotophos	0.656	0.639		mg/Kg		97	15 - 167
Naled	0.656	0.484		mg/Kg		74	13 - 102
Phorate	0.164	0.125		mg/Kg		76	17 - 142
Ronnel	0.164	0.149		mg/Kg		91	36 - 134

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: LCS 640-100288/2-A
Matrix: Solid
Analysis Batch: 100656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Simazine	0.656	0.392		mg/Kg		60	42 - 127
Tokuthion	0.164	0.140		mg/Kg		86	48 - 142

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate (TPP)	*80*		*35 - 134*

Lab Sample ID: LCS 640-100288/6-A
Matrix: Solid
Analysis Batch: 100667

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbophenthion	0.0650	0.0464	J	mg/Kg		71	50 - 130
Chlorpyrifos-methyl	0.0650	0.0476		mg/Kg		73	50 - 130
Dimethoate	0.0650	0.0546	J	mg/Kg		84	50 - 130
Disulfoton	0.0650	0.0462	J	mg/Kg		71	50 - 130
Merphos	0.130	0.103		mg/Kg		79	50 - 130
Sulfotepp	0.0325	0.0233		mg/Kg		72	50 - 130
Terbufos	0.0650	0.0493		mg/Kg		76	50 - 130
Thionazin	0.0650	0.0501		mg/Kg		77	29 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate (TPP)	*75*		*35 - 134*

Lab Sample ID: LCSD 640-100288/3-A
Matrix: Solid
Analysis Batch: 100656

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100288

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Atrazine	0.666	0.481		mg/Kg		72	56 - 119	8	30
Azinphos-methyl	0.167	0.145		mg/Kg		87	52 - 122	6	30
Bolstar	0.167	0.134		mg/Kg		81	55 - 141	11	30
Chlorpyrifos	0.167	0.124		mg/Kg		74	40 - 132	6	30
Coumaphos	0.167	0.148	J	mg/Kg		89	47 - 160	6	30
Demeton, Total	0.333	0.266		mg/Kg		80	31 - 118	4	41
Diazinon	0.167	0.121		mg/Kg		73	36 - 113	7	38
Dichlofenthion	0.167	0.127		mg/Kg		76	36 - 114	9	33
Dichlorvos	0.167	0.0968		mg/Kg		58	10 - 154	12	51
EPN	0.167	0.182		mg/Kg		109	68 - 159	10	30
Ethion	0.167	0.121		mg/Kg		73	49 - 128	11	30
Ethoprop	0.167	0.131		mg/Kg		79	23 - 134	4	45
Ethyl Parathion	0.167	0.139		mg/Kg		83	53 - 126	7	30
Famphur	0.167	0.140		mg/Kg		84	53 - 118	10	30
Fensulfothion	0.167	0.154	J	mg/Kg		92	33 - 168	12	30
Fenthion	0.167	0.127		mg/Kg		76	41 - 136	8	30
Malathion	0.167	0.126		mg/Kg		76	45 - 125	6	30
Methyl parathion	0.167	0.138		mg/Kg		83	44 - 126	8	30
Mevinphos	0.167	0.142		mg/Kg		85	10 - 156	5	50
Monochrotophos	0.666	0.522		mg/Kg		78	15 - 167	20	60

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: LCSD 640-100288/3-A
Matrix: Solid
Analysis Batch: 100656

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100288

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naled			0.666	0.492		mg/Kg		74	13 - 102	2	53
Phorate			0.167	0.118		mg/Kg		71	17 - 142	6	46
Ronnel			0.167	0.128		mg/Kg		77	36 - 134	15	35
Simazine			0.666	0.364		mg/Kg		55	42 - 127	8	31
Tokuthion			0.167	0.125		mg/Kg		75	48 - 142	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Triphenylphosphate (TPP)	*85*		*35 - 134*

Lab Sample ID: LCSD 640-100288/7-A
Matrix: Solid
Analysis Batch: 100667

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100288

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbophenthion			0.0661	0.0440	J	mg/Kg		67	50 - 130	5	50
Chlorpyrifos-methyl			0.0661	0.0456		mg/Kg		69	50 - 130	4	50
Dimethoate			0.0661	0.0524	J	mg/Kg		79	50 - 130	4	50
Disulfoton			0.0661	0.0442	J	mg/Kg		67	50 - 130	4	50
Merphos			0.132	0.102		mg/Kg		77	50 - 130	1	50
Sulfotepp			0.0331	0.0227		mg/Kg		69	50 - 130	3	50
Terbufos			0.0661	0.0473		mg/Kg		71	50 - 130	4	50
Thionazin			0.0661	0.0490		mg/Kg		74	29 - 130	2	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Triphenylphosphate (TPP)	*80*		*35 - 134*

Lab Sample ID: 680-88399-2 MS
Matrix: Solid
Analysis Batch: 100667

Client Sample ID: DDSB-7-0-2-20130314-01
Prep Type: Total/NA
Prep Batch: 100288

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbophenthion	0.081	U	0.0830	0.0480	J	mg/Kg	☼	58	50 - 130
Chlorpyrifos-methyl	0.041	U	0.0830	0.0483		mg/Kg	☼	58	50 - 130
Dimethoate	0.081	U	0.0830	0.0205	J F	mg/Kg	☼	25	50 - 130
Disulfoton	0.081	U	0.0830	0.0399	J F	mg/Kg	☼	48	50 - 130
Merphos	0.041	U	0.166	0.115		mg/Kg	☼	69	50 - 130
Sulfotepp	0.021	U	0.0415	0.0213		mg/Kg	☼	51	50 - 130
Terbufos	0.021	U	0.0830	0.0476		mg/Kg	☼	57	50 - 130
Thionazin	0.041	U	0.0830	0.0421		mg/Kg	☼	51	29 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Triphenylphosphate (TPP)	*60*		*35 - 134*

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: 680-88399-2 MSD
Matrix: Solid
Analysis Batch: 100667

Client Sample ID: DDSB-7-0-2-20130314-01
Prep Type: Total/NA
Prep Batch: 100288

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbophenthion	0.081	U	0.0830	0.0526	J	mg/Kg	☼	63	50 - 130	9	50
Chlorpyrifos-methyl	0.041	U	0.0830	0.0556		mg/Kg	☼	67	50 - 130	14	50
Dimethoate	0.081	U	0.0830	0.0434	J F	mg/Kg	☼	52	50 - 130	72	50
Disulfoton	0.081	U	0.0830	0.0404	J F	mg/Kg	☼	49	50 - 130	1	50
Merphos	0.041	U	0.166	0.113		mg/Kg	☼	68	50 - 130	1	50
Sulfotepp	0.021	U	0.0415	0.0250		mg/Kg	☼	60	50 - 130	16	50
Terbufos	0.021	U	0.0830	0.0547		mg/Kg	☼	66	50 - 130	14	50
Thionazin	0.041	U	0.0830	0.0490		mg/Kg	☼	59	29 - 130	15	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Triphenylphosphate (TPP)	*63*		*35 - 134*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 680-269986/1-A
Matrix: Solid
Analysis Batch: 270285

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 269986

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	20	U	20	9.8	mg/Kg		03/20/13 12:29	03/21/13 16:36	1
Antimony	2.0	U	2.0	0.52	mg/Kg		03/20/13 12:29	03/21/13 16:36	1
Arsenic	2.0	U	2.0	0.58	mg/Kg		03/20/13 12:29	03/21/13 16:36	1
Barium	0.98	U	0.98	0.29	mg/Kg		03/20/13 12:29	03/21/13 16:36	1
Beryllium	0.39	U	0.39	0.020	mg/Kg		03/20/13 12:29	03/21/13 16:36	1
Cadmium	0.49	U	0.49	0.098	mg/Kg		03/20/13 12:29	03/21/13 16:36	1
Calcium	49	U	49	20	mg/Kg		03/20/13 12:29	03/21/13 16:36	1
Chromium	0.98	U	0.98	0.49	mg/Kg		03/20/13 12:29	03/21/13 16:36	1
Cobalt	0.98	U	0.98	0.12	mg/Kg		03/20/13 12:29	03/21/13 16:36	1
Copper	2.5	U	2.5	1.1	mg/Kg		03/20/13 12:29	03/21/13 16:36	1
Iron	20	U	20	6.9	mg/Kg		03/20/13 12:29	03/21/13 16:36	1
Lead	0.98	U	0.98	0.52	mg/Kg		03/20/13 12:29	03/21/13 16:36	1
Magnesium	49	U	49	2.4	mg/Kg		03/20/13 12:29	03/21/13 16:36	1
Manganese	0.98	U	0.98	0.29	mg/Kg		03/20/13 12:29	03/21/13 16:36	1
Nickel	3.9	U	3.9	0.30	mg/Kg		03/20/13 12:29	03/21/13 16:36	1
Potassium	98	U	98	7.8	mg/Kg		03/20/13 12:29	03/21/13 16:36	1
Selenium	2.5	U	2.5	0.98	mg/Kg		03/20/13 12:29	03/21/13 16:36	1
Silver	0.98	U	0.98	0.094	mg/Kg		03/20/13 12:29	03/21/13 16:36	1
Sodium	200	U	200	80	mg/Kg		03/20/13 12:29	03/21/13 16:36	1
Thallium	2.5	U	2.5	0.97	mg/Kg		03/20/13 12:29	03/21/13 16:36	1
Vanadium	0.98	U	0.98	0.24	mg/Kg		03/20/13 12:29	03/21/13 16:36	1
Zinc	2.0	U	2.0	1.2	mg/Kg		03/20/13 12:29	03/21/13 16:36	1

Lab Sample ID: LCS 680-269986/3-A
Matrix: Solid
Analysis Batch: 270285

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269986

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	198	205		mg/Kg		104	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 680-269986/3-A
Matrix: Solid
Analysis Batch: 270285

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269986

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	19.8	19.1		mg/Kg		96	75 - 125
Arsenic	19.8	20.6		mg/Kg		104	75 - 125
Barium	19.8	19.3		mg/Kg		97	75 - 125
Beryllium	19.8	19.8		mg/Kg		100	75 - 125
Cadmium	19.8	19.7		mg/Kg		99	75 - 125
Calcium	1980	1920		mg/Kg		97	75 - 125
Chromium	19.8	20.1		mg/Kg		101	75 - 125
Cobalt	19.8	19.1		mg/Kg		96	75 - 125
Copper	19.8	19.5		mg/Kg		99	75 - 125
Iron	1980	2010		mg/Kg		101	75 - 125
Lead	19.8	20.0		mg/Kg		101	75 - 125
Magnesium	1980	1950		mg/Kg		98	75 - 125
Manganese	198	199		mg/Kg		101	75 - 125
Nickel	19.8	19.8		mg/Kg		100	75 - 125
Potassium	1980	1870		mg/Kg		95	75 - 125
Selenium	19.8	19.0		mg/Kg		96	75 - 125
Silver	19.8	20.8		mg/Kg		105	75 - 125
Sodium	1980	1670		mg/Kg		84	75 - 125
Thallium	3.96	4.80		mg/Kg		121	75 - 125
Vanadium	19.8	19.4		mg/Kg		98	75 - 125
Zinc	19.8	19.0		mg/Kg		96	75 - 125

Lab Sample ID: MB 680-270162/1-A
Matrix: Solid
Analysis Batch: 270495

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 270162

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	20	U	20	9.9	mg/Kg		03/21/13 11:26	03/22/13 22:40	1
Antimony	2.0	U	2.0	0.52	mg/Kg		03/21/13 11:26	03/22/13 22:40	1
Arsenic	2.0	U	2.0	0.58	mg/Kg		03/21/13 11:26	03/22/13 22:40	1
Barium	0.99	U	0.99	0.30	mg/Kg		03/21/13 11:26	03/22/13 22:40	1
Beryllium	0.40	U	0.40	0.020	mg/Kg		03/21/13 11:26	03/22/13 22:40	1
Cadmium	0.50	U	0.50	0.099	mg/Kg		03/21/13 11:26	03/22/13 22:40	1
Calcium	50	U	50	20	mg/Kg		03/21/13 11:26	03/22/13 22:40	1
Chromium	0.99	U	0.99	0.50	mg/Kg		03/21/13 11:26	03/22/13 22:40	1
Cobalt	0.99	U	0.99	0.12	mg/Kg		03/21/13 11:26	03/22/13 22:40	1
Copper	2.5	U	2.5	1.1	mg/Kg		03/21/13 11:26	03/22/13 22:40	1
Iron	20	U	20	6.9	mg/Kg		03/21/13 11:26	03/22/13 22:40	1
Lead	0.99	U	0.99	0.52	mg/Kg		03/21/13 11:26	03/22/13 22:40	1
Magnesium	50	U	50	2.4	mg/Kg		03/21/13 11:26	03/22/13 22:40	1
Manganese	0.99	U	0.99	0.30	mg/Kg		03/21/13 11:26	03/22/13 22:40	1
Nickel	4.0	U	4.0	0.31	mg/Kg		03/21/13 11:26	03/22/13 22:40	1
Potassium	99	U	99	7.9	mg/Kg		03/21/13 11:26	03/22/13 22:40	1
Selenium	2.5	U	2.5	0.99	mg/Kg		03/21/13 11:26	03/22/13 22:40	1
Silver	0.99	U	0.99	0.095	mg/Kg		03/21/13 11:26	03/22/13 22:40	1
Sodium	200	U	200	81	mg/Kg		03/21/13 11:26	03/22/13 22:40	1
Thallium	2.5	U	2.5	0.98	mg/Kg		03/21/13 11:26	03/22/13 22:40	1
Vanadium	0.99	U	0.99	0.24	mg/Kg		03/21/13 11:26	03/22/13 22:40	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 680-270162/1-A
Matrix: Solid
Analysis Batch: 270495

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 270162

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	2.0	U	2.0	1.2	mg/Kg		03/21/13 11:26	03/22/13 22:40	1

Lab Sample ID: LCS 680-270162/4-A
Matrix: Solid
Analysis Batch: 270495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 270162

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	198	200		mg/Kg		101	75 - 125
Antimony	19.8	18.2		mg/Kg		92	75 - 125
Arsenic	19.8	21.2		mg/Kg		107	75 - 125
Barium	19.8	18.8		mg/Kg		95	75 - 125
Beryllium	19.8	19.1		mg/Kg		96	75 - 125
Cadmium	19.8	18.9		mg/Kg		96	75 - 125
Calcium	1980	1830		mg/Kg		92	75 - 125
Chromium	19.8	19.1		mg/Kg		96	75 - 125
Cobalt	19.8	18.8		mg/Kg		95	75 - 125
Copper	19.8	19.1		mg/Kg		97	75 - 125
Iron	1980	1970		mg/Kg		99	75 - 125
Lead	19.8	18.9		mg/Kg		96	75 - 125
Magnesium	1980	1870		mg/Kg		95	75 - 125
Manganese	198	194		mg/Kg		98	75 - 125
Nickel	19.8	19.0		mg/Kg		96	75 - 125
Potassium	1980	1820		mg/Kg		92	75 - 125
Selenium	19.8	19.1		mg/Kg		97	75 - 125
Silver	19.8	20.3		mg/Kg		103	75 - 125
Sodium	1980	1640		mg/Kg		83	75 - 125
Thallium	3.96	4.38		mg/Kg		111	75 - 125
Vanadium	19.8	19.1		mg/Kg		97	75 - 125
Zinc	19.8	18.1		mg/Kg		91	75 - 125

Lab Sample ID: LCSD 680-270162/5-A
Matrix: Solid
Analysis Batch: 270495

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 270162

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	200	195		mg/Kg		97	75 - 125	3	20
Antimony	20.0	19.6		mg/Kg		98	75 - 125	8	20
Arsenic	20.0	22.5		mg/Kg		112	75 - 125	6	20
Barium	20.0	19.7		mg/Kg		98	75 - 125	5	20
Beryllium	20.0	20.2		mg/Kg		101	75 - 125	6	20
Cadmium	20.0	19.9		mg/Kg		99	75 - 125	5	20
Calcium	2000	1930		mg/Kg		96	75 - 125	5	20
Chromium	20.0	20.1		mg/Kg		101	75 - 125	5	20
Cobalt	20.0	19.8		mg/Kg		99	75 - 125	5	20
Copper	20.0	20.3		mg/Kg		101	75 - 125	6	20
Iron	2000	2080		mg/Kg		104	75 - 125	6	20
Lead	20.0	19.8		mg/Kg		99	75 - 125	5	20
Magnesium	2000	1990		mg/Kg		99	75 - 125	6	20
Manganese	200	205		mg/Kg		103	75 - 125	6	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 680-270162/5-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 270495 — **Prep Batch: 270162**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nickel	20.0	20.0		mg/Kg		100	75 - 125	5	20
Potassium	2000	1920		mg/Kg		96	75 - 125	5	20
Selenium	20.0	19.9		mg/Kg		99	75 - 125	4	20
Silver	20.0	21.6		mg/Kg		108	75 - 125	6	20
Sodium	2000	1710		mg/Kg		85	75 - 125	4	20
Thallium	4.00	4.44		mg/Kg		111	75 - 125	1	20
Vanadium	20.0	20.1		mg/Kg		100	75 - 125	5	20
Zinc	20.0	19.3		mg/Kg		96	75 - 125	6	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 680-269705/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 270183 — **Prep Batch: 269705**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	U	0.020	0.0082	mg/Kg		03/18/13 11:25	03/20/13 19:19	1

Lab Sample ID: LCS 680-269705/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 270183 — **Prep Batch: 269705**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.240	0.240		mg/Kg		100	80 - 120

Lab Sample ID: MB 680-270111/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 270494 — **Prep Batch: 270111**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	U	0.018	0.0072	mg/Kg		03/21/13 09:33	03/22/13 16:16	1

Lab Sample ID: LCS 680-270111/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 270494 — **Prep Batch: 270111**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.250	0.258		mg/Kg		103	80 - 120

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 680-269690/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 270007 — **Prep Batch: 269690**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.99	U	0.99	0.30	mg/Kg		03/18/13 10:55	03/20/13 12:22	1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCS 680-269690/2-A
Matrix: Solid
Analysis Batch: 270007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269690

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	19.6	19.5		mg/Kg		100	80 - 120

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 680-269968/1-A
Matrix: Solid
Analysis Batch: 270145

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 269968

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.50	U	0.50	0.21	mg/Kg		03/20/13 10:30	03/21/13 10:43	1

Lab Sample ID: LCS 680-269968/2-A
Matrix: Solid
Analysis Batch: 270133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269968

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.500	0.449		mg/Kg		90	75 - 125

GC/MS VOA

Analysis Batch: 269898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-1	TB-01-20130314-01	Total/NA	Water	8260B	
LCS 680-269898/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-269898/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-269898/7	Method Blank	Total/NA	Water	8260B	

Prep Batch: 270202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-2	DDSB-7-0-2-20130314-01	Total/NA	Solid	5035	
680-88399-3	DDSB-7-11-13-20130314-01	Total/NA	Solid	5035	
680-88399-4	DDSB-8-0-2-20130314-01	Total/NA	Solid	5035	
680-88399-5	DDSB-8-8-11-20130314-01	Total/NA	Solid	5035	
680-88399-6	DDSB-9-0-2-20130314-01	Total/NA	Solid	5035	
680-88399-7	DDSB-9-10-12-20130314-01	Total/NA	Solid	5035	

Analysis Batch: 270456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-3	DDSB-7-11-13-20130314-01	Total/NA	Solid	8260B	270202
680-88399-5	DDSB-8-8-11-20130314-01	Total/NA	Solid	8260B	270202
680-88399-7	DDSB-9-10-12-20130314-01	Total/NA	Solid	8260B	270202

Analysis Batch: 270459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-2	DDSB-7-0-2-20130314-01	Total/NA	Solid	8260B	270202
LCS 680-270459/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 680-270459/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 680-270459/6	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 270603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-4	DDSB-8-0-2-20130314-01	Total/NA	Solid	8260B	270202
680-88399-6	DDSB-9-0-2-20130314-01	Total/NA	Solid	8260B	270202
LCS 680-270603/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 680-270603/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 680-270603/7	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 180202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-2	DDSB-7-0-2-20130314-01	Total/NA	Solid	3541	
680-88399-3	DDSB-7-11-13-20130314-01	Total/NA	Solid	3541	
680-88399-4	DDSB-8-0-2-20130314-01	Total/NA	Solid	3541	
680-88399-4 - DL	DDSB-8-0-2-20130314-01	Total/NA	Solid	3541	
680-88399-5	DDSB-8-8-11-20130314-01	Total/NA	Solid	3541	
680-88399-6	DDSB-9-0-2-20130314-01	Total/NA	Solid	3541	
680-88399-6 - DL	DDSB-9-0-2-20130314-01	Total/NA	Solid	3541	
680-88399-7	DDSB-9-10-12-20130314-01	Total/NA	Solid	3541	
LCS 500-180202/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-180202/1-A	Method Blank	Total/NA	Solid	3541	

GC/MS Semi VOA (Continued)

Analysis Batch: 180723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-180202/2-A	Lab Control Sample	Total/NA	Solid	8270C	180202
MB 500-180202/1-A	Method Blank	Total/NA	Solid	8270C	180202

Analysis Batch: 180871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-2	DDSB-7-0-2-20130314-01	Total/NA	Solid	8270C	180202
680-88399-3	DDSB-7-11-13-20130314-01	Total/NA	Solid	8270C	180202
680-88399-4	DDSB-8-0-2-20130314-01	Total/NA	Solid	8270C	180202
680-88399-5	DDSB-8-8-11-20130314-01	Total/NA	Solid	8270C	180202
680-88399-6	DDSB-9-0-2-20130314-01	Total/NA	Solid	8270C	180202
680-88399-7	DDSB-9-10-12-20130314-01	Total/NA	Solid	8270C	180202

Analysis Batch: 181265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-4 - DL	DDSB-8-0-2-20130314-01	Total/NA	Solid	8270C	180202
680-88399-6 - DL	DDSB-9-0-2-20130314-01	Total/NA	Solid	8270C	180202

GC Semi VOA

Prep Batch: 100288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-2	DDSB-7-0-2-20130314-01	Total/NA	Solid	3550B	
680-88399-2 MS	DDSB-7-0-2-20130314-01	Total/NA	Solid	3550B	
680-88399-2 MSD	DDSB-7-0-2-20130314-01	Total/NA	Solid	3550B	
680-88399-3	DDSB-7-11-13-20130314-01	Total/NA	Solid	3550B	
680-88399-4	DDSB-8-0-2-20130314-01	Total/NA	Solid	3550B	
680-88399-5	DDSB-8-8-11-20130314-01	Total/NA	Solid	3550B	
680-88399-6	DDSB-9-0-2-20130314-01	Total/NA	Solid	3550B	
680-88399-7	DDSB-9-10-12-20130314-01	Total/NA	Solid	3550B	
LCS 640-100288/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCS 640-100288/6-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 640-100288/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	
LCSD 640-100288/7-A	Lab Control Sample Dup	Total/NA	Solid	3550B	
MB 640-100288/1-A	Method Blank	Total/NA	Solid	3550B	

Analysis Batch: 100656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 640-100288/2-A	Lab Control Sample	Total/NA	Solid	8141A	100288
LCSD 640-100288/3-A	Lab Control Sample Dup	Total/NA	Solid	8141A	100288
MB 640-100288/1-A	Method Blank	Total/NA	Solid	8141A	100288

Analysis Batch: 100667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-2	DDSB-7-0-2-20130314-01	Total/NA	Solid	8141A	100288
680-88399-2 MS	DDSB-7-0-2-20130314-01	Total/NA	Solid	8141A	100288
680-88399-2 MSD	DDSB-7-0-2-20130314-01	Total/NA	Solid	8141A	100288
680-88399-3	DDSB-7-11-13-20130314-01	Total/NA	Solid	8141A	100288
680-88399-4	DDSB-8-0-2-20130314-01	Total/NA	Solid	8141A	100288
680-88399-5	DDSB-8-8-11-20130314-01	Total/NA	Solid	8141A	100288
680-88399-6	DDSB-9-0-2-20130314-01	Total/NA	Solid	8141A	100288

GC Semi VOA (Continued)

Analysis Batch: 100667 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-7	DDSB-9-10-12-20130314-01	Total/NA	Solid	8141A	100288
LCS 640-100288/6-A	Lab Control Sample	Total/NA	Solid	8141A	100288
LCSD 640-100288/7-A	Lab Control Sample Dup	Total/NA	Solid	8141A	100288

Prep Batch: 180211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-2	DDSB-7-0-2-20130314-01	Total/NA	Solid	3541	
680-88399-3	DDSB-7-11-13-20130314-01	Total/NA	Solid	3541	
680-88399-4	DDSB-8-0-2-20130314-01	Total/NA	Solid	3541	
680-88399-4 MS	DDSB-8-0-2-20130314-01	Total/NA	Solid	3541	
680-88399-4 MS	DDSB-8-0-2-20130314-01	Total/NA	Solid	3541	
680-88399-4 MSD	DDSB-8-0-2-20130314-01	Total/NA	Solid	3541	
680-88399-4 MSD	DDSB-8-0-2-20130314-01	Total/NA	Solid	3541	
680-88399-5	DDSB-8-8-11-20130314-01	Total/NA	Solid	3541	
680-88399-6	DDSB-9-0-2-20130314-01	Total/NA	Solid	3541	
680-88399-7	DDSB-9-10-12-20130314-01	Total/NA	Solid	3541	
LCS 500-180211/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-180211/3-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-180211/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 180342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-2	DDSB-7-0-2-20130314-01	Total/NA	Solid	8082	180211
680-88399-3	DDSB-7-11-13-20130314-01	Total/NA	Solid	8082	180211
680-88399-4	DDSB-8-0-2-20130314-01	Total/NA	Solid	8082	180211
680-88399-4 MS	DDSB-8-0-2-20130314-01	Total/NA	Solid	8082	180211
680-88399-4 MSD	DDSB-8-0-2-20130314-01	Total/NA	Solid	8082	180211
680-88399-5	DDSB-8-8-11-20130314-01	Total/NA	Solid	8082	180211
680-88399-6	DDSB-9-0-2-20130314-01	Total/NA	Solid	8082	180211
680-88399-7	DDSB-9-10-12-20130314-01	Total/NA	Solid	8082	180211
LCS 500-180211/3-A	Lab Control Sample	Total/NA	Solid	8082	180211
MB 500-180211/1-A	Method Blank	Total/NA	Solid	8082	180211

Analysis Batch: 180355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-2	DDSB-7-0-2-20130314-01	Total/NA	Solid	8081A	180211
680-88399-3	DDSB-7-11-13-20130314-01	Total/NA	Solid	8081A	180211
680-88399-4	DDSB-8-0-2-20130314-01	Total/NA	Solid	8081A	180211
680-88399-4 MS	DDSB-8-0-2-20130314-01	Total/NA	Solid	8081A	180211
680-88399-4 MSD	DDSB-8-0-2-20130314-01	Total/NA	Solid	8081A	180211
680-88399-5	DDSB-8-8-11-20130314-01	Total/NA	Solid	8081A	180211
680-88399-6	DDSB-9-0-2-20130314-01	Total/NA	Solid	8081A	180211
680-88399-7	DDSB-9-10-12-20130314-01	Total/NA	Solid	8081A	180211
LCS 500-180211/2-A	Lab Control Sample	Total/NA	Solid	8081A	180211
MB 500-180211/1-A	Method Blank	Total/NA	Solid	8081A	180211

Metals

Prep Batch: 269705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-2	DDSB-7-0-2-20130314-01	Total/NA	Solid	7471A	
680-88399-3	DDSB-7-11-13-20130314-01	Total/NA	Solid	7471A	
680-88399-5	DDSB-8-8-11-20130314-01	Total/NA	Solid	7471A	
680-88399-6	DDSB-9-0-2-20130314-01	Total/NA	Solid	7471A	
680-88399-7	DDSB-9-10-12-20130314-01	Total/NA	Solid	7471A	
LCS 680-269705/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 680-269705/1-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 269986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-3	DDSB-7-11-13-20130314-01	Total/NA	Solid	3050B	
680-88399-5	DDSB-8-8-11-20130314-01	Total/NA	Solid	3050B	
680-88399-7	DDSB-9-10-12-20130314-01	Total/NA	Solid	3050B	
LCS 680-269986/3-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 680-269986/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 270111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-4	DDSB-8-0-2-20130314-01	Total/NA	Solid	7471A	
LCS 680-270111/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 680-270111/1-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 270162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-2	DDSB-7-0-2-20130314-01	Total/NA	Solid	3050B	
680-88399-4	DDSB-8-0-2-20130314-01	Total/NA	Solid	3050B	
680-88399-6	DDSB-9-0-2-20130314-01	Total/NA	Solid	3050B	
LCS 680-270162/4-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 680-270162/5-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 680-270162/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 270183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-2	DDSB-7-0-2-20130314-01	Total/NA	Solid	7471A	269705
680-88399-3	DDSB-7-11-13-20130314-01	Total/NA	Solid	7471A	269705
680-88399-5	DDSB-8-8-11-20130314-01	Total/NA	Solid	7471A	269705
680-88399-6	DDSB-9-0-2-20130314-01	Total/NA	Solid	7471A	269705
680-88399-7	DDSB-9-10-12-20130314-01	Total/NA	Solid	7471A	269705
LCS 680-269705/2-A	Lab Control Sample	Total/NA	Solid	7471A	269705
MB 680-269705/1-A	Method Blank	Total/NA	Solid	7471A	269705

Analysis Batch: 270285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-3	DDSB-7-11-13-20130314-01	Total/NA	Solid	6010B	269986
680-88399-5	DDSB-8-8-11-20130314-01	Total/NA	Solid	6010B	269986
680-88399-7	DDSB-9-10-12-20130314-01	Total/NA	Solid	6010B	269986
LCS 680-269986/3-A	Lab Control Sample	Total/NA	Solid	6010B	269986
MB 680-269986/1-A	Method Blank	Total/NA	Solid	6010B	269986

Metals (Continued)

Analysis Batch: 270494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-4	DDSB-8-0-2-20130314-01	Total/NA	Solid	7471A	270111
LCS 680-270111/2-A	Lab Control Sample	Total/NA	Solid	7471A	270111
MB 680-270111/1-A	Method Blank	Total/NA	Solid	7471A	270111

Analysis Batch: 270495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-2	DDSB-7-0-2-20130314-01	Total/NA	Solid	6010B	270162
680-88399-4	DDSB-8-0-2-20130314-01	Total/NA	Solid	6010B	270162
680-88399-6	DDSB-9-0-2-20130314-01	Total/NA	Solid	6010B	270162
LCS 680-270162/4-A	Lab Control Sample	Total/NA	Solid	6010B	270162
LCSD 680-270162/5-A	Lab Control Sample Dup	Total/NA	Solid	6010B	270162
MB 680-270162/1-A	Method Blank	Total/NA	Solid	6010B	270162

General Chemistry

Prep Batch: 269690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-2	DDSB-7-0-2-20130314-01	Total/NA	Solid	3060A	
680-88399-3	DDSB-7-11-13-20130314-01	Total/NA	Solid	3060A	
680-88399-4	DDSB-8-0-2-20130314-01	Total/NA	Solid	3060A	
680-88399-5	DDSB-8-8-11-20130314-01	Total/NA	Solid	3060A	
680-88399-6	DDSB-9-0-2-20130314-01	Total/NA	Solid	3060A	
680-88399-7	DDSB-9-10-12-20130314-01	Total/NA	Solid	3060A	
LCS 680-269690/2-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 680-269690/1-A	Method Blank	Total/NA	Solid	3060A	

Prep Batch: 269968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-2	DDSB-7-0-2-20130314-01	Total/NA	Solid	9012A	
680-88399-3	DDSB-7-11-13-20130314-01	Total/NA	Solid	9012A	
680-88399-4	DDSB-8-0-2-20130314-01	Total/NA	Solid	9012A	
680-88399-5	DDSB-8-8-11-20130314-01	Total/NA	Solid	9012A	
680-88399-6	DDSB-9-0-2-20130314-01	Total/NA	Solid	9012A	
680-88399-7	DDSB-9-10-12-20130314-01	Total/NA	Solid	9012A	
LCS 680-269968/2-A	Lab Control Sample	Total/NA	Solid	9012A	
MB 680-269968/1-A	Method Blank	Total/NA	Solid	9012A	

Analysis Batch: 270007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-2	DDSB-7-0-2-20130314-01	Total/NA	Solid	7196A	269690
680-88399-3	DDSB-7-11-13-20130314-01	Total/NA	Solid	7196A	269690
680-88399-4	DDSB-8-0-2-20130314-01	Total/NA	Solid	7196A	269690
680-88399-5	DDSB-8-8-11-20130314-01	Total/NA	Solid	7196A	269690
680-88399-6	DDSB-9-0-2-20130314-01	Total/NA	Solid	7196A	269690
680-88399-7	DDSB-9-10-12-20130314-01	Total/NA	Solid	7196A	269690
LCS 680-269690/2-A	Lab Control Sample	Total/NA	Solid	7196A	269690
MB 680-269690/1-A	Method Blank	Total/NA	Solid	7196A	269690

General Chemistry (Continued)

Analysis Batch: 270133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88399-2	DDSB-7-0-2-20130314-01	Total/NA	Solid	9012A	269968
680-88399-3	DDSB-7-11-13-20130314-01	Total/NA	Solid	9012A	269968
680-88399-4	DDSB-8-0-2-20130314-01	Total/NA	Solid	9012A	269968
680-88399-5	DDSB-8-8-11-20130314-01	Total/NA	Solid	9012A	269968
680-88399-6	DDSB-9-0-2-20130314-01	Total/NA	Solid	9012A	269968
680-88399-7	DDSB-9-10-12-20130314-01	Total/NA	Solid	9012A	269968
LCS 680-269968/2-A	Lab Control Sample	Total/NA	Solid	9012A	269968

Analysis Batch: 270145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-269968/1-A	Method Blank	Total/NA	Solid	9012A	269968

Lab Chronicle

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: TB-01-20130314-01

Lab Sample ID: 680-88399-1

Date Collected: 03/14/13 00:00
Matrix: Water
Date Received: 03/15/13 15:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	269898	03/19/13 13:00	JD	TAL SAV

Client Sample ID: DDSB-7-0-2-20130314-01

Lab Sample ID: 680-88399-2

Date Collected: 03/14/13 15:34
Matrix: Solid
Date Received: 03/15/13 15:38
Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.837 g	5 mL	270202	03/21/13 14:22	FS	TAL SAV
Total/NA	Analysis	8260B		40			270459	03/23/13 04:16	RB	TAL SAV
Total/NA	Prep	3541			15.1588 g	0.5 mL	180202	03/18/13 16:41	DEA	TAL CHI
Total/NA	Analysis	8270C		1			180871	03/25/13 18:14	KDL	TAL CHI
Total/NA	Prep	3541			15.5271 g	5.0 mL	180211	03/18/13 18:27	DEA	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 16:54	GMO	TAL CHI
Total/NA	Prep	3541			15.5271 g	5.0 mL	180211	03/18/13 18:27	DEA	TAL CHI
Total/NA	Analysis	8081A		1			180355	03/20/13 20:58	PG	TAL CHI
Total/NA	Prep	3550B			00030.57 g	10.0 mL	100288	03/18/13 14:54	QC	TAL TAL
Total/NA	Analysis	8141A		1			100667	04/01/13 11:34	MLT	TAL TAL
Total/NA	Prep	3550B			00030.57 g	10.0 mL	100288	03/18/13 14:54	QC	TAL TAL
Total/NA	Analysis	8141A		1			100667	04/01/13 11:34	MLT	TAL TAL
Total/NA	Prep	7471A			0.59 g	50 mL	269705	03/18/13 11:25	UU	TAL SAV
Total/NA	Analysis	7471A		1			270183	03/20/13 19:45	BCB	TAL SAV
Total/NA	Prep	3050B			0.52 g	100 mL	270162	03/21/13 11:26	RAM	TAL SAV
Total/NA	Analysis	6010B		1			270495	03/22/13 23:18	BCB	TAL SAV
Total/NA	Prep	3060A			1.01 g	100 mL	269690	03/18/13 10:55	BB	TAL SAV
Total/NA	Analysis	7196A		1			270007	03/20/13 12:23	JE	TAL SAV
Total/NA	Prep	9012A			1.00 g	50 mL	269968	03/20/13 10:30	DAM	TAL SAV
Total/NA	Analysis	9012A		1			270133	03/21/13 09:15	DAM	TAL SAV

Client Sample ID: DDSB-7-11-13-20130314-01

Lab Sample ID: 680-88399-3

Date Collected: 03/14/13 15:55
Matrix: Solid
Date Received: 03/15/13 15:38
Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.549 g	5 mL	270202	03/21/13 14:22	FS	TAL SAV
Total/NA	Analysis	8260B		1			270456	03/23/13 22:02	RB	TAL SAV
Total/NA	Prep	3541			15.6613 g	0.5 mL	180202	03/18/13 16:41	DEA	TAL CHI
Total/NA	Analysis	8270C		1			180871	03/25/13 18:32	KDL	TAL CHI
Total/NA	Prep	3541			15.0073 g	5.0 mL	180211	03/18/13 18:27	DEA	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 17:08	GMO	TAL CHI
Total/NA	Prep	3541			15.0073 g	5.0 mL	180211	03/18/13 18:27	DEA	TAL CHI
Total/NA	Analysis	8081A		1			180355	03/20/13 21:18	PG	TAL CHI
Total/NA	Prep	3550B			00030.97 g	10.0 mL	100288	03/18/13 14:54	QC	TAL TAL
Total/NA	Analysis	8141A		1			100667	04/01/13 12:33	MLT	TAL TAL

Lab Chronicle

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-7-11-13-20130314-01

Lab Sample ID: 680-88399-3

Date Collected: 03/14/13 15:55
Matrix: Solid
Date Received: 03/15/13 15:38
Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			00030.97 g	10.0 mL	100288	03/18/13 14:54	QC	TAL TAL
Total/NA	Analysis	8141A		1			100667	04/01/13 12:33	MLT	TAL TAL
Total/NA	Prep	7471A			0.58 g	50 mL	269705	03/18/13 11:25	UU	TAL SAV
Total/NA	Analysis	7471A		1			270183	03/20/13 19:48	BCB	TAL SAV
Total/NA	Prep	3050B			1.02 g	100 mL	269986	03/20/13 12:29	JKL	TAL SAV
Total/NA	Analysis	6010B		1			270285	03/21/13 16:52	BCB	TAL SAV
Total/NA	Prep	3060A			1.05 g	100 mL	269690	03/18/13 10:55	BB	TAL SAV
Total/NA	Analysis	7196A		1			270007	03/20/13 12:23	JE	TAL SAV
Total/NA	Prep	9012A			1.04 g	50 mL	269968	03/20/13 10:30	DAM	TAL SAV
Total/NA	Analysis	9012A		1			270133	03/21/13 09:16	DAM	TAL SAV

Client Sample ID: DDSB-8-0-2-20130314-01

Lab Sample ID: 680-88399-4

Date Collected: 03/14/13 16:20
Matrix: Solid
Date Received: 03/15/13 15:38
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.552 g	5 mL	270202	03/21/13 14:22	FS	TAL SAV
Total/NA	Analysis	8260B		40			270603	03/24/13 14:51	RB	TAL SAV
Total/NA	Prep	3541			15.0264 g	0.5 mL	180202	03/18/13 16:41	DEA	TAL CHI
Total/NA	Analysis	8270C		1			180871	03/25/13 18:49	KDL	TAL CHI
Total/NA	Prep	3541	DL		15.0264 g	0.5 mL	180202	03/18/13 16:41	DEA	TAL CHI
Total/NA	Analysis	8270C	DL	5			181265	03/28/13 19:23	AD	TAL CHI
Total/NA	Prep	3541			15.3896 g	5.0 mL	180211	03/18/13 18:27	DEA	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 17:22	GMO	TAL CHI
Total/NA	Prep	3541			15.3896 g	5.0 mL	180211	03/18/13 18:27	DEA	TAL CHI
Total/NA	Analysis	8081A		10			180355	03/20/13 21:39	PG	TAL CHI
Total/NA	Prep	3550B			00030.33 g	10.0 mL	100288	03/18/13 14:54	QC	TAL TAL
Total/NA	Analysis	8141A		1			100667	04/01/13 12:48	MLT	TAL TAL
Total/NA	Prep	3550B			00030.33 g	10.0 mL	100288	03/18/13 14:54	QC	TAL TAL
Total/NA	Analysis	8141A		1			100667	04/01/13 12:48	MLT	TAL TAL
Total/NA	Prep	7471A			0.52 g	50 mL	270111	03/21/13 09:33	UU	TAL SAV
Total/NA	Analysis	7471A		1			270494	03/22/13 17:14	BCB	TAL SAV
Total/NA	Prep	3050B			0.51 g	100 mL	270162	03/21/13 11:26	RAM	TAL SAV
Total/NA	Analysis	6010B		1			270495	03/22/13 23:35	BCB	TAL SAV
Total/NA	Prep	3060A			1.01 g	100 mL	269690	03/18/13 10:55	BB	TAL SAV
Total/NA	Analysis	7196A		1			270007	03/20/13 12:23	JE	TAL SAV
Total/NA	Prep	9012A			1.02 g	50 mL	269968	03/20/13 10:30	DAM	TAL SAV
Total/NA	Analysis	9012A		1			270133	03/21/13 09:17	DAM	TAL SAV

Lab Chronicle

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-8-8-11-20130314-01

Lab Sample ID: 680-88399-5

Date Collected: 03/14/13 16:40
Matrix: Solid
Date Received: 03/15/13 15:38
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.363 g	5 mL	270202	03/21/13 14:22	FS	TAL SAV
Total/NA	Analysis	8260B		1			270456	03/23/13 22:24	RB	TAL SAV
Total/NA	Prep	3541			15.1927 g	0.5 mL	180202	03/18/13 16:41	DEA	TAL CHI
Total/NA	Analysis	8270C		1			180871	03/25/13 19:07	KDL	TAL CHI
Total/NA	Prep	3541			15.7647 g	5.0 mL	180211	03/18/13 18:27	DEA	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 18:05	GMO	TAL CHI
Total/NA	Prep	3541			15.7647 g	5.0 mL	180211	03/18/13 18:27	DEA	TAL CHI
Total/NA	Analysis	8081A		1			180355	03/20/13 22:40	PG	TAL CHI
Total/NA	Prep	3550B			00030.39 g	10.0 mL	100288	03/18/13 14:54	QC	TAL TAL
Total/NA	Analysis	8141A		1			100667	04/01/13 13:03	MLT	TAL TAL
Total/NA	Prep	7471A			0.52 g	50 mL	269705	03/18/13 11:25	UU	TAL SAV
Total/NA	Analysis	7471A		1			270183	03/20/13 19:53	BCB	TAL SAV
Total/NA	Prep	3050B			1.07 g	100 mL	269986	03/20/13 12:29	JKL	TAL SAV
Total/NA	Analysis	6010B		1			270285	03/21/13 16:58	BCB	TAL SAV
Total/NA	Prep	3060A			1.03 g	100 mL	269690	03/18/13 10:55	BB	TAL SAV
Total/NA	Analysis	7196A		1			270007	03/20/13 12:23	JE	TAL SAV
Total/NA	Prep	9012A			1.03 g	50 mL	269968	03/20/13 10:30	DAM	TAL SAV
Total/NA	Analysis	9012A		1			270133	03/21/13 09:18	DAM	TAL SAV

Client Sample ID: DDSB-9-0-2-20130314-01

Lab Sample ID: 680-88399-6

Date Collected: 03/14/13 17:15
Matrix: Solid
Date Received: 03/15/13 15:38
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.491 g	5 mL	270202	03/21/13 14:22	FS	TAL SAV
Total/NA	Analysis	8260B		500			270603	03/24/13 15:13	RB	TAL SAV
Total/NA	Prep	3541			15.1818 g	0.5 mL	180202	03/18/13 16:41	DEA	TAL CHI
Total/NA	Analysis	8270C		1			180871	03/25/13 19:24	KDL	TAL CHI
Total/NA	Prep	3541	DL		15.1818 g	0.5 mL	180202	03/18/13 16:41	DEA	TAL CHI
Total/NA	Analysis	8270C	DL	5			181265	03/28/13 19:41	AD	TAL CHI
Total/NA	Prep	3541			15.3647 g	5.0 mL	180211	03/18/13 18:27	DEA	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 18:19	GMO	TAL CHI
Total/NA	Prep	3541			15.3647 g	5.0 mL	180211	03/18/13 18:27	DEA	TAL CHI
Total/NA	Analysis	8081A		10			180355	03/20/13 23:01	PG	TAL CHI
Total/NA	Prep	3550B			00030.45 g	10.0 mL	100288	03/18/13 14:54	QC	TAL TAL
Total/NA	Analysis	8141A		1			100667	04/01/13 14:46	MLT	TAL TAL
Total/NA	Prep	3550B			00030.45 g	10.0 mL	100288	03/18/13 14:54	QC	TAL TAL
Total/NA	Analysis	8141A		1			100667	04/01/13 14:46	MLT	TAL TAL
Total/NA	Prep	7471A			0.55 g	50 mL	269705	03/18/13 11:25	UU	TAL SAV
Total/NA	Analysis	7471A		1			270183	03/20/13 19:55	BCB	TAL SAV
Total/NA	Prep	3050B			0.50 g	100 mL	270162	03/21/13 11:26	RAM	TAL SAV
Total/NA	Analysis	6010B		1			270495	03/22/13 23:40	BCB	TAL SAV
Total/NA	Prep	3060A			1.04 g	100 mL	269690	03/18/13 10:55	BB	TAL SAV
Total/NA	Analysis	7196A		1			270007	03/20/13 12:23	JE	TAL SAV

Lab Chronicle

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Client Sample ID: DDSB-9-0-2-20130314-01

Lab Sample ID: 680-88399-6

Date Collected: 03/14/13 17:15
Matrix: Solid
Date Received: 03/15/13 15:38
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9012A			1.05 g	50 mL	269968	03/20/13 10:30	DAM	TAL SAV
Total/NA	Analysis	9012A		1			270133	03/21/13 09:19	DAM	TAL SAV

Client Sample ID: DDSB-9-10-12-20130314-01

Lab Sample ID: 680-88399-7

Date Collected: 03/14/13 17:40
Matrix: Solid
Date Received: 03/15/13 15:38
Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.354 g	5 mL	270202	03/21/13 14:22	FS	TAL SAV
Total/NA	Analysis	8260B		1			270456	03/23/13 22:46	RB	TAL SAV
Total/NA	Prep	3541			15.2565 g	0.5 mL	180202	03/18/13 16:41	DEA	TAL CHI
Total/NA	Analysis	8270C		1			180871	03/25/13 19:41	KDL	TAL CHI
Total/NA	Prep	3541			15.0270 g	5.0 mL	180211	03/18/13 18:27	DEA	TAL CHI
Total/NA	Analysis	8082		1			180342	03/20/13 18:33	GMO	TAL CHI
Total/NA	Prep	3541			15.0270 g	5.0 mL	180211	03/18/13 18:27	DEA	TAL CHI
Total/NA	Analysis	8081A		10			180355	03/20/13 23:21	PG	TAL CHI
Total/NA	Prep	3550B			00030.79 g	10.0 mL	100288	03/18/13 14:54	QC	TAL TAL
Total/NA	Analysis	8141A		1			100667	04/01/13 13:18	MLT	TAL TAL
Total/NA	Prep	7471A			0.55 g	50 mL	269705	03/18/13 11:25	UU	TAL SAV
Total/NA	Analysis	7471A		1			270183	03/20/13 20:03	BCB	TAL SAV
Total/NA	Prep	3050B			1.15 g	100 mL	269986	03/20/13 12:29	JKL	TAL SAV
Total/NA	Analysis	6010B		1			270285	03/21/13 17:14	BCB	TAL SAV
Total/NA	Prep	3060A			1.02 g	100 mL	269690	03/18/13 10:55	BB	TAL SAV
Total/NA	Analysis	7196A		1			270007	03/20/13 12:23	JE	TAL SAV
Total/NA	Prep	9012A			1.01 g	50 mL	269968	03/20/13 10:30	DAM	TAL SAV
Total/NA	Analysis	9012A		1			270133	03/21/13 09:21	DAM	TAL SAV

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Don Dowling	Lab PM: Gulizia, Lidya	Carrier Tracking No(s):	COC No: 680-46469-20896.1
Client Contact: Mr. James Morrison	Phone: 678-230-7604	E-Mail: lidya.gulizia@testamericainc.com		Page:
Company: ERM-Southeast, Inc.				Job #:
Address: The Towers at Wildwood Plaza 3200 Windy Hill Road Suite 150	Due Date Requested: Standard			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30339				
Phone: 404-816-6168(Tel)	PO #: 176740			
Email: jim.morrison@erm.com	WO #: 176740			
Project Name: Macon MGP Due Dil. REV Soils 03/13	Project #: 68010916			
Site: Macon MGP Due Diligence Soil Event	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - 8260 VOC (FP) - DD (SAV)	6010B / 7471 Metals / 7196A Cr+6 / 9012 CN (SAV)	8141A - 8141 OP PESTS (TAL)	8081A OC PEST/ 8082 PCB / 8270C SVOC (CHI)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				E/F	N	N	N		
TB-01-20130314-01	3-14-13	—	G	~~Solid~~ W			2					
DDSB-7-0-2-20130314-01	3.14.13	1534	G	Solid			3	1	1	1		
DDSB-7-1-13-20130314-01	3-14-13	1555	G	Solid			3	1	1	1		
DDSB-8-0-2-20130314-01	3-14-13	1620	G	Solid			3	1	1	1		
[illegible]	[illegible]	[illegible]	[illegible]	Solid			3	1	1	1		
[illegible]	[illegible]	[illegible]	[illegible]	Solid			3	1	1	1		
[illegible]	[illegible]	[illegible]	[illegible]	Solid			3	1	1	1		
				Solid								
				Solid								680-88399
				Solid								0.6°C
				Solid								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Don Dowling	3/15/13 12:35		[illegible]	03/15/13 12:35	TA
[illegible]	03/15/13 15:35	TA			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			[illegible]	3/15/13 1536	TA

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: ERM-Southeast, Inc.

Job Number: 680-88399-1
SDG Number: AGL88399-1

Login Number: 88399
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ERM-Southeast, Inc.

Job Number: 680-88399-1
SDG Number: AGL88399-1

Login Number: 88399
List Number: 1
Creator: Lunt, Jeff T

List Source: TestAmerica Chicago
List Creation: 03/16/13 10:34 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: ERM-Southeast, Inc.

Job Number: 680-88399-1
SDG Number: AGL88399-1

Login Number: 88399
List Number: 1
Creator: Delp, Eric

List Source: TestAmerica Tallahassee
List Creation: 03/16/13 01:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	05-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	03-31-13
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAP	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13

Certification Summary

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence Soil MAR 2013

TestAmerica Job ID: 680-88399-1
SDG: AGL88399-1

Laboratory: TestAmerica Chicago (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAP	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-13
Kentucky (UST)	State Program	4	66	04-11-13
Louisiana	NELAP	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-13
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAP	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13

Laboratory: TestAmerica Tallahassee

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E81005	06-30-13
Georgia	State Program	4		06-30-13
Louisiana	NELAP	6	30663	06-30-13
New Jersey	NELAP	2	FL012	06-30-13
Texas	NELAP	6	T104704459-11-2	03-31-14
USDA	Federal		P330-08-00158	08-05-14

Job ID: 680-89383-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: ERM-Southeast, Inc.

Project: Macon MGP Due Diligence AQ APR 2013

Report Number: 680-89383-1

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

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

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

RECEIPT

The samples were received on 04/16/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.0 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples DDMW-1-20130415-01 (680-89383-1), DDMW-2-20130415-01 (680-89383-2) and TB-01-20130415-01 (ATL-143) (680-89383-3) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/17/2013.

The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 273341 exceeded control limits for bromomethane.

No other difficulties were encountered during the volatiles analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples DDMW-1-20130415-01 (680-89383-1) and DDMW-2-20130415-01 (680-89383-2) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/22/2013 and analyzed on 04/25/2013.

The continuing calibration verifications (CCV's) for Aramite associated with batches 500-183989/5 and 184148/4 recovered above the upper control limit. The samples associated with these CCV's were non-detects for the affected analytes; therefore, the data have been reported. DDMW-1-20130415-01 (680-89383-1), DDMW-2-20130415-01 (680-89383-2)

Internal standard (ISTD) responses for some CCV's were outside of acceptance limits: DDMW-1-20130415-01 (680-89383-1), DDMW-2-20130415-01 (680-89383-2). The affected samples were not re-analyzed due to CCV recoveries meeting control limits.

The initial calibration verification (ICV) for analytical batch 500-183587/13 and 14 was outside control criteria for Benzoic acid, 4-Chloroaniline, 3 & 4 Methylphenol, and Phenol. The affected samples were non detects for these analytes. The data have been qualified and reported.DDMW-1-20130415-01 (680-89383-1), DDMW-2-20130415-01 (680-89383-2)

Job ID: 680-89383-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

No difficulties were encountered during the semivolatiles analyses.

All quality control parameters were within the acceptance limits.

CHLORINATED PESTICIDES

Samples DDMW-1-20130415-01 (680-89383-1) and DDMW-2-20130415-01 (680-89383-2) were analyzed for chlorinated pesticides in accordance with EPA SW-846 Method 8081A. The samples were prepared on 04/19/2013 and analyzed on 04/22/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

The continuing calibration verification (CCV) for Chlordane (technical) peak 3 and peak 5 and 4,4'-DDD associated with batch 183728 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. DDMW-1-20130415-01 (680-89383-1), DDMW-2-20130415-01 (680-89383-2)

No difficulties were encountered during the pesticides analyses.

All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples DDMW-1-20130415-01 (680-89383-1) and DDMW-2-20130415-01 (680-89383-2) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 04/19/2013 and analyzed on 04/23/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

No difficulties were encountered during the PCBs analyses.

All quality control parameters were within the acceptance limits.

ORGANOPHOSPHORUS PESTICIDES

Samples DDMW-1-20130415-01 (680-89383-1) and DDMW-2-20130415-01 (680-89383-2) were analyzed for organophosphorus pesticides in accordance with EPA SW-846 Method 8141A. The samples were prepared on 04/18/2013 and analyzed on 04/22/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 640-101150 exceeded control limits for the following analyte: epn. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for batch 640-101150 exceeded control limits for the following analyte(s): dichlorvos, demeton-o. dichlorvos, demeton-o has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Only batch precision exceeded control limits for dichlorvos. These results have been reported and qualified.

No other difficulties were encountered during the pesticides analyses.

All other quality control parameters were within the acceptance limits.

METALS (ICPMS)

Samples DDMW-1-20130415-01 (680-89383-1) and DDMW-2-20130415-01 (680-89383-2) were analyzed for Metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 04/18/2013 and 04/22/2013 and analyzed on 04/21/2013 and 04/25/2013.

Job ID: 680-89383-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for barium, magnesium and antimony in batch 273513 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Due to the high concentration of calcium, sodium and strontium, the matrix spike / matrix spike duplicate (MS/MSD) for batch 273513 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-273985 were outside control limits for silver. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM

Samples DDMW-1-20130415-01 (680-89383-1) and DDMW-2-20130415-01 (680-89383-2) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were analyzed on 04/16/2013.

No difficulties were encountered during the hexavalent chromium analyses.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples DDMW-1-20130415-01 (680-89383-1) and DDMW-2-20130415-01 (680-89383-2) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 04/17/2013 and analyzed on 04/18/2013.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

TOTAL CYANIDE

Samples DDMW-1-20130415-01 (680-89383-1) and DDMW-2-20130415-01 (680-89383-2) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared and analyzed on 04/18/2013.

No difficulties were encountered during the cyanide analyses.

All quality control parameters were within the acceptance limits.

No analytical or quality issues were noted.

Sample Summary

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89383-1
SDG: AGL89383-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89383-1	DDMW-1-20130415-01	Water	04/16/13 11:45	04/16/13 15:10
680-89383-2	DDMW-2-20130415-01	Water	04/16/13 09:30	04/16/13 15:10
680-89383-3	TB-01-20130415-01 (ATL-143)	Water	04/16/13 00:00	04/16/13 15:10

Method Summary

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89383-1
SDG: AGL89383-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8081A	Organochlorine Pesticides (GC)	SW846	TAL CHI
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
8141A	Organophosphorous Pesticides (GC)	SW846	TAL TAL
6020A	Metals (ICP/MS)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
7196A	Chromium, Hexavalent	SW846	TAL SAV
9012A	Cyanide, Total and/or Amenable	SW846	TAL SAV

Protocol References:

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	RPD of the LCS and LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	RPD of the LCS and LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89383-1
SDG: AGL89383-1

Client Sample ID: DDMW-1-20130415-01
Date Collected: 04/16/13 11:45
Date Received: 04/16/13 15:10

Lab Sample ID: 680-89383-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			04/17/13 17:41	1
Benzene	1.0	U	1.0	0.25	ug/L			04/17/13 17:41	1
Bromobenzene	1.0	U	1.0	0.16	ug/L			04/17/13 17:41	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			04/17/13 17:41	1
Bromodichloromethane	**0.29**	**J**	1.0	0.25	ug/L			04/17/13 17:41	1
Bromoform	1.0	U	1.0	0.50	ug/L			04/17/13 17:41	1
Bromomethane	1.0	U *	1.0	0.80	ug/L			04/17/13 17:41	1
2-Butanone	10	U	10	1.0	ug/L			04/17/13 17:41	1
n-Butylbenzene	1.0	U	1.0	0.10	ug/L			04/17/13 17:41	1
sec-Butylbenzene	1.0	U	1.0	0.16	ug/L			04/17/13 17:41	1
tert-Butylbenzene	1.0	U	1.0	0.12	ug/L			04/17/13 17:41	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			04/17/13 17:41	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			04/17/13 17:41	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/17/13 17:41	1
Chloroprene	1.0	U	1.0	0.30	ug/L			04/17/13 17:41	1
Chloroethane	1.0	U	1.0	1.0	ug/L			04/17/13 17:41	1
Chloroform	**1.2**		1.0	0.14	ug/L			04/17/13 17:41	1
Chloromethane	1.0	U	1.0	0.33	ug/L			04/17/13 17:41	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/L			04/17/13 17:41	1
4-Chlorotoluene	1.0	U	1.0	0.27	ug/L			04/17/13 17:41	1
Dibromochloromethane	**0.11**	**J**	1.0	0.10	ug/L			04/17/13 17:41	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			04/17/13 17:41	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			04/17/13 17:41	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			04/17/13 17:41	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			04/17/13 17:41	1
1,3-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/17/13 17:41	1
1,4-Dichlorobenzene	1.0	U	1.0	0.28	ug/L			04/17/13 17:41	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			04/17/13 17:41	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/17/13 17:41	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			04/17/13 17:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			04/17/13 17:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			04/17/13 17:41	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			04/17/13 17:41	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			04/17/13 17:41	1
1,3-Dichloropropane	1.0	U	1.0	0.13	ug/L			04/17/13 17:41	1
2,2-Dichloropropane	1.0	U	1.0	0.12	ug/L			04/17/13 17:41	1
1,1-Dichloropropene	1.0	U	1.0	0.25	ug/L			04/17/13 17:41	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			04/17/13 17:41	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			04/17/13 17:41	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			04/17/13 17:41	1
Hexachlorobutadiene	1.0	U	1.0	0.40	ug/L			04/17/13 17:41	1
2-Hexanone	10	U	10	1.0	ug/L			04/17/13 17:41	1
Isopropylbenzene	1.0	U	1.0	0.10	ug/L			04/17/13 17:41	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			04/17/13 17:41	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			04/17/13 17:41	1
4-Methyl-2-pentanone	10	U	10	1.0	ug/L			04/17/13 17:41	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			04/17/13 17:41	1
Naphthalene	5.0	U	5.0	1.0	ug/L			04/17/13 17:41	1
N-Propylbenzene	1.0	U	1.0	0.15	ug/L			04/17/13 17:41	1

Client Sample ID: DDMW-1-20130415-01
Date Collected: 04/16/13 11:45
Date Received: 04/16/13 15:10

Lab Sample ID: 680-89383-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U	1.0	0.11	ug/L			04/17/13 17:41	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			04/17/13 17:41	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			04/17/13 17:41	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			04/17/13 17:41	1
Toluene	1.0	U	1.0	0.33	ug/L			04/17/13 17:41	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			04/17/13 17:41	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.25	ug/L			04/17/13 17:41	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			04/17/13 17:41	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			04/17/13 17:41	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			04/17/13 17:41	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			04/17/13 17:41	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			04/17/13 17:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			04/17/13 17:41	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			04/17/13 17:41	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			04/17/13 17:41	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			04/17/13 17:41	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			04/17/13 17:41	1
Cyclohexane	1.0	U	1.0	0.25	ug/L			04/17/13 17:41	1
Methyl acetate	1.0	U	1.0	0.19	ug/L			04/17/13 17:41	1
Methylcyclohexane	1.0	U	1.0	0.10	ug/L			04/17/13 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*04/17/13 17:41*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*04/17/13 17:41*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*04/17/13 17:41*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.99	U	0.99	0.36	ug/L		04/22/13 07:31	04/25/13 17:40	1
Acenaphthylene	0.99	U	0.99	0.32	ug/L		04/22/13 07:31	04/25/13 17:40	1
Acetophenone	5.0	U	5.0	0.81	ug/L		04/22/13 07:31	04/25/13 17:40	1
2-Acetylaminofluorene	5.0	U	5.0	0.97	ug/L		04/22/13 07:31	04/25/13 17:40	1
alpha,alpha-Dimethyl phenethylamine	40	U	40	8.5	ug/L		04/22/13 07:31	04/25/13 17:40	1
4-Aminobiphenyl	9.9	U	9.9	1.3	ug/L		04/22/13 07:31	04/25/13 17:40	1
Aniline	20	U	20	3.4	ug/L		04/22/13 07:31	04/25/13 17:40	1
Anthracene	0.99	U	0.99	0.32	ug/L		04/22/13 07:31	04/25/13 17:40	1
Aramite	5.0	U	5.0	1.3	ug/L		04/22/13 07:31	04/25/13 17:40	1
Benzenethiol	20	U	20	9.9	ug/L		04/22/13 07:31	04/25/13 17:40	1
Benzidine	40	U	40	20	ug/L		04/22/13 07:31	04/25/13 17:40	1
Benzo[a]anthracene	0.20	U	0.20	0.044	ug/L		04/22/13 07:31	04/25/13 17:40	1
Benzo[a]pyrene	0.20	U	0.20	0.056	ug/L		04/22/13 07:31	04/25/13 17:40	1
Benzo[b]fluoranthene	0.20	U	0.20	0.058	ug/L		04/22/13 07:31	04/25/13 17:40	1
Benzo[g,h,i]perylene	0.99	U	0.99	0.42	ug/L		04/22/13 07:31	04/25/13 17:40	1
Benzoic acid	20	U ^	20	4.5	ug/L		04/22/13 07:31	04/25/13 17:40	1
Benzo[k]fluoranthene	0.20	U	0.20	0.074	ug/L		04/22/13 07:31	04/25/13 17:40	1
Benzyl alcohol	20	U	20	3.0	ug/L		04/22/13 07:31	04/25/13 17:40	1
Bis(2-chloroethoxy)methane	2.0	U	2.0	0.30	ug/L		04/22/13 07:31	04/25/13 17:40	1
Bis(2-chloroethyl)ether	2.0	U	2.0	0.35	ug/L		04/22/13 07:31	04/25/13 17:40	1
Bis(2-ethylhexyl) phthalate	9.9	U	9.9	2.4	ug/L		04/22/13 07:31	04/25/13 17:40	1
4-Bromophenyl phenyl ether	5.0	U	5.0	0.91	ug/L		04/22/13 07:31	04/25/13 17:40	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89383-1
SDG: AGL89383-1

Client Sample ID: DDMW-1-20130415-01
Date Collected: 04/16/13 11:45
Date Received: 04/16/13 15:10

Lab Sample ID: 680-89383-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	2.0	U	2.0	0.27	ug/L		04/22/13 07:31	04/25/13 17:40	1
Carbofuran	9.9	U	9.9	1.4	ug/L		04/22/13 07:31	04/25/13 17:40	1
4-Chloroaniline	9.9	U ^	9.9	2.1	ug/L		04/22/13 07:31	04/25/13 17:40	1
4-Chloro-3-methylphenol	9.9	U	9.9	2.2	ug/L		04/22/13 07:31	04/25/13 17:40	1
1-Chloronaphthalene	2.0	U	2.0	2.0	ug/L		04/22/13 07:31	04/25/13 17:40	1
2-Chloronaphthalene	2.0	U	2.0	0.34	ug/L		04/22/13 07:31	04/25/13 17:40	1
2-Chlorophenol	5.0	U	5.0	0.80	ug/L		04/22/13 07:31	04/25/13 17:40	1
4-Chlorophenyl phenyl ether	5.0	U	5.0	0.81	ug/L		04/22/13 07:31	04/25/13 17:40	1
Chrysene	0.50	U	0.50	0.14	ug/L		04/22/13 07:31	04/25/13 17:40	1
Diallate	5.0	U	5.0	2.2	ug/L		04/22/13 07:31	04/25/13 17:40	1
Dibenz(a,h)anthracene	0.30	U	0.30	0.064	ug/L		04/22/13 07:31	04/25/13 17:40	1
Dibenz[a,j]acridine	5.0	U	5.0	1.3	ug/L		04/22/13 07:31	04/25/13 17:40	1
Dibenzofuran	2.0	U	2.0	0.35	ug/L		04/22/13 07:31	04/25/13 17:40	1
1,2-Dichlorobenzene	2.0	U	2.0	0.29	ug/L		04/22/13 07:31	04/25/13 17:40	1
1,3-Dichlorobenzene	2.0	U	2.0	0.25	ug/L		04/22/13 07:31	04/25/13 17:40	1
1,4-Dichlorobenzene	2.0	U	2.0	0.27	ug/L		04/22/13 07:31	04/25/13 17:40	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.94	ug/L		04/22/13 07:31	04/25/13 17:40	1
2,4-Dichlorophenol	9.9	U	9.9	2.3	ug/L		04/22/13 07:31	04/25/13 17:40	1
2,6-Dichlorophenol	5.0	U	5.0	0.85	ug/L		04/22/13 07:31	04/25/13 17:40	1
Diethyl phthalate	2.0	U	2.0	0.44	ug/L		04/22/13 07:31	04/25/13 17:40	1
Diethylstilbestrol	20	U	20	2.1	ug/L		04/22/13 07:31	04/25/13 17:40	1
Dimethoate	9.9	U	9.9	1.5	ug/L		04/22/13 07:31	04/25/13 17:40	1
7,12-Dimethylbenz(a)anthracene	5.0	U	5.0	2.2	ug/L		04/22/13 07:31	04/25/13 17:40	1
3,3'-Dimethylbenzidine	20	U	20	9.0	ug/L		04/22/13 07:31	04/25/13 17:40	1
2,4-Dimethylphenol	9.9	U	9.9	3.3	ug/L		04/22/13 07:31	04/25/13 17:40	1
Dimethyl phthalate	2.0	U	2.0	0.38	ug/L		04/22/13 07:31	04/25/13 17:40	1
Di-n-butyl phthalate	5.0	U	5.0	0.80	ug/L		04/22/13 07:31	04/25/13 17:40	1
1,4-Dinitrobenzene	5.0	U	5.0	2.0	ug/L		04/22/13 07:31	04/25/13 17:40	1
4,6-Dinitro-2-methylphenol	20	U	20	4.9	ug/L		04/22/13 07:31	04/25/13 17:40	1
2,4-Dinitrophenol	20	U	20	7.4	ug/L		04/22/13 07:31	04/25/13 17:40	1
2,4-Dinitrotoluene	0.99	U	0.99	0.30	ug/L		04/22/13 07:31	04/25/13 17:40	1
2,6-Dinitrotoluene	0.50	U	0.50	0.12	ug/L		04/22/13 07:31	04/25/13 17:40	1
Di-n-octyl phthalate	9.9	U	9.9	2.5	ug/L		04/22/13 07:31	04/25/13 17:40	1
Dinoseb	9.9	U	9.9	3.2	ug/L		04/22/13 07:31	04/25/13 17:40	1
1,4-Dioxane	20	U	20	6.9	ug/L		04/22/13 07:31	04/25/13 17:40	1
Diphenylamine	5.0	U	5.0	1.7	ug/L		04/22/13 07:31	04/25/13 17:40	1
1,2-Diphenylhydrazine	5.0	U	5.0	0.70	ug/L		04/22/13 07:31	04/25/13 17:40	1
Disulfoton	9.9	U	9.9	1.4	ug/L		04/22/13 07:31	04/25/13 17:40	1
Ethyl 4,4'-Dichlorobenzilate	5.0	U	5.0	1.3	ug/L		04/22/13 07:31	04/25/13 17:40	1
Ethyl methanesulfonate	5.0	U	5.0	1.9	ug/L		04/22/13 07:31	04/25/13 17:40	1
Ethyl Parathion	9.9	U	9.9	1.7	ug/L		04/22/13 07:31	04/25/13 17:40	1
Famphur	9.9	U	9.9	1.5	ug/L		04/22/13 07:31	04/25/13 17:40	1
Fluoranthene	0.99	U	0.99	0.32	ug/L		04/22/13 07:31	04/25/13 17:40	1
Fluorene	0.99	U	0.99	0.38	ug/L		04/22/13 07:31	04/25/13 17:40	1
Hexachlorobenzene	0.50	U	0.50	0.14	ug/L		04/22/13 07:31	04/25/13 17:40	1
Hexachlorobutadiene	5.0	U	5.0	1.1	ug/L		04/22/13 07:31	04/25/13 17:40	1
Hexachlorocyclopentadiene	20	U	20	3.4	ug/L		04/22/13 07:31	04/25/13 17:40	1
Hexachloroethane	5.0	U	5.0	0.96	ug/L		04/22/13 07:31	04/25/13 17:40	1
Hexachlorophene	99	U	99	52	ug/L		04/22/13 07:31	04/25/13 17:40	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89383-1
SDG: AGL89383-1

Client Sample ID: DDMW-1-20130415-01
Date Collected: 04/16/13 11:45
Date Received: 04/16/13 15:10

Lab Sample ID: 680-89383-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloropropene	20	U	20	3.0	ug/L		04/22/13 07:31	04/25/13 17:40	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.084	ug/L		04/22/13 07:31	04/25/13 17:40	1
Isophorone	2.0	U	2.0	0.29	ug/L		04/22/13 07:31	04/25/13 17:40	1
Isosafrole	5.0	U	5.0	1.7	ug/L		04/22/13 07:31	04/25/13 17:40	1
Malathion	9.9	U	9.9	1.6	ug/L		04/22/13 07:31	04/25/13 17:40	1
m-Dinitrobenzene	5.0	U	5.0	1.9	ug/L		04/22/13 07:31	04/25/13 17:40	1
Methapyrilene	40	U	40	6.5	ug/L		04/22/13 07:31	04/25/13 17:40	1
3-Methylcholanthrene	5.0	U	5.0	0.97	ug/L		04/22/13 07:31	04/25/13 17:40	1
Methyl methanesulfonate	5.0	U	5.0	1.8	ug/L		04/22/13 07:31	04/25/13 17:40	1
2-Methylnaphthalene	0.50	U	0.50	0.13	ug/L		04/22/13 07:31	04/25/13 17:40	1
Methyl parathion	9.9	U	9.9	1.6	ug/L		04/22/13 07:31	04/25/13 17:40	1
2-Methylphenol	2.0	U	2.0	0.31	ug/L		04/22/13 07:31	04/25/13 17:40	1
3 & 4 Methylphenol	2.0	U ^	2.0	0.44	ug/L		04/22/13 07:31	04/25/13 17:40	1
Naphthalene	0.99	U	0.99	0.30	ug/L		04/22/13 07:31	04/25/13 17:40	1
1,4-Naphthoquinone	9.9	U	9.9	1.7	ug/L		04/22/13 07:31	04/25/13 17:40	1
1-Naphthylamine	9.9	U	9.9	1.4	ug/L		04/22/13 07:31	04/25/13 17:40	1
2-Naphthylamine	9.9	U	9.9	1.4	ug/L		04/22/13 07:31	04/25/13 17:40	1
2-Nitroaniline	5.0	U	5.0	1.1	ug/L		04/22/13 07:31	04/25/13 17:40	1
3-Nitroaniline	9.9	U	9.9	2.3	ug/L		04/22/13 07:31	04/25/13 17:40	1
4-Nitroaniline	9.9	U	9.9	3.9	ug/L		04/22/13 07:31	04/25/13 17:40	1
Nitrobenzene	0.99	U	0.99	0.45	ug/L		04/22/13 07:31	04/25/13 17:40	1
5-Nitro-o-toluidine	5.0	U	5.0	1.5	ug/L		04/22/13 07:31	04/25/13 17:40	1
2-Nitrophenol	9.9	U	9.9	2.1	ug/L		04/22/13 07:31	04/25/13 17:40	1
4-Nitrophenol	20	U	20	2.3	ug/L		04/22/13 07:31	04/25/13 17:40	1
4-Nitroquinoline-1-oxide	20	U	20	12	ug/L		04/22/13 07:31	04/25/13 17:40	1
N-Nitrosodiethylamine	5.0	U	5.0	1.1	ug/L		04/22/13 07:31	04/25/13 17:40	1
N-Nitrosodimethylamine	9.9	U	9.9	1.4	ug/L		04/22/13 07:31	04/25/13 17:40	1
N-Nitrosodi-n-butylamine	5.0	U	5.0	0.97	ug/L		04/22/13 07:31	04/25/13 17:40	1
N-Nitrosodi-n-propylamine	0.50	U	0.50	0.14	ug/L		04/22/13 07:31	04/25/13 17:40	1
N-Nitrosodiphenylamine	0.99	U	0.99	0.34	ug/L		04/22/13 07:31	04/25/13 17:40	1
N-Nitrosomethylethylamine	5.0	U	5.0	1.1	ug/L		04/22/13 07:31	04/25/13 17:40	1
N-Nitrosomorpholine	5.0	U	5.0	2.4	ug/L		04/22/13 07:31	04/25/13 17:40	1
N-Nitrosopiperidine	5.0	U	5.0	0.81	ug/L		04/22/13 07:31	04/25/13 17:40	1
N-Nitrosopyrrolidine	5.0	U	5.0	0.79	ug/L		04/22/13 07:31	04/25/13 17:40	1
o,o',o''-Triethylphosphorothioate	9.9	U	9.9	1.5	ug/L		04/22/13 07:31	04/25/13 17:40	1
o-Toluidine	5.0	U	5.0	1.6	ug/L		04/22/13 07:31	04/25/13 17:40	1
2,2'-oxybis[1-chloropropane]	2.0	U	2.0	0.30	ug/L		04/22/13 07:31	04/25/13 17:40	1
p-Dimethylamino azobenzene	5.0	U	5.0	1.2	ug/L		04/22/13 07:31	04/25/13 17:40	1
Pentachlorobenzene	5.0	U	5.0	1.1	ug/L		04/22/13 07:31	04/25/13 17:40	1
Pentachloronitrobenzene	5.0	U	5.0	1.7	ug/L		04/22/13 07:31	04/25/13 17:40	1
Pentachlorophenol	20	U	20	5.6	ug/L		04/22/13 07:31	04/25/13 17:40	1
Phenacetin	5.0	U	5.0	1.8	ug/L		04/22/13 07:31	04/25/13 17:40	1
Phenanthrene	0.99	U	0.99	0.35	ug/L		04/22/13 07:31	04/25/13 17:40	1
Phenol	5.0	U ^	5.0	0.36	ug/L		04/22/13 07:31	04/25/13 17:40	1
Phorate	9.9	U	9.9	1.5	ug/L		04/22/13 07:31	04/25/13 17:40	1
2-Picoline	9.9	U	9.9	1.3	ug/L		04/22/13 07:31	04/25/13 17:40	1
p-Phenylene diamine	40	U	40	20	ug/L		04/22/13 07:31	04/25/13 17:40	1
Pronamide	9.9	U	9.9	1.1	ug/L		04/22/13 07:31	04/25/13 17:40	1
Pyrene	0.99	U	0.99	0.48	ug/L		04/22/13 07:31	04/25/13 17:40	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89383-1
SDG: AGL89383-1

Client Sample ID: DDMW-1-20130415-01
Date Collected: 04/16/13 11:45
Date Received: 04/16/13 15:10

Lab Sample ID: 680-89383-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	20	U	20	7.2	ug/L		04/22/13 07:31	04/25/13 17:40	1
Safrole	5.0	U	5.0	1.9	ug/L		04/22/13 07:31	04/25/13 17:40	1
Sulfotepp	9.9	U	9.9	1.1	ug/L		04/22/13 07:31	04/25/13 17:40	1
sym-Trinitrobenzene	5.0	U	5.0	2.3	ug/L		04/22/13 07:31	04/25/13 17:40	1
1,2,4,5-Tetrachlorobenzene	5.0	U	5.0	1.2	ug/L		04/22/13 07:31	04/25/13 17:40	1
2,3,4,6-Tetrachlorophenol	5.0	U	5.0	1.5	ug/L		04/22/13 07:31	04/25/13 17:40	1
Thionazin	9.9	U	9.9	1.8	ug/L		04/22/13 07:31	04/25/13 17:40	1
1,2,4-Trichlorobenzene	2.0	U	2.0	0.30	ug/L		04/22/13 07:31	04/25/13 17:40	1
2,4,5-Trichlorophenol	9.9	U	9.9	2.3	ug/L		04/22/13 07:31	04/25/13 17:40	1
2,4,6-Trichlorophenol	5.0	U	5.0	1.1	ug/L		04/22/13 07:31	04/25/13 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*48 - 110*	*04/22/13 07:31*	*04/25/13 17:40*	*1*
2-Fluorophenol	*38*		*20 - 100*	*04/22/13 07:31*	*04/25/13 17:40*	*1*
Nitrobenzene-d5	*66*		*41 - 110*	*04/22/13 07:31*	*04/25/13 17:40*	*1*
Phenol-d5	*25*		*20 - 100*	*04/22/13 07:31*	*04/25/13 17:40*	*1*
Terphenyl-d14	*81*		*44 - 132*	*04/22/13 07:31*	*04/25/13 17:40*	*1*
2,4,6-Tribromophenol	*91*		*50 - 129*	*04/22/13 07:31*	*04/25/13 17:40*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.055	U	0.055	0.0064	ug/L		04/19/13 20:58	04/22/13 18:28	1
alpha-BHC	0.055	U	0.055	0.0077	ug/L		04/19/13 20:58	04/22/13 18:28	1
beta-BHC	0.055	U	0.055	0.0083	ug/L		04/19/13 20:58	04/22/13 18:28	1
Chlordane (technical)	0.11	U	0.11	0.041	ug/L		04/19/13 20:58	04/22/13 18:28	1
4,4'-DDD	0.055	U	0.055	0.0053	ug/L		04/19/13 20:58	04/22/13 18:28	1
4,4'-DDE	0.055	U	0.055	0.0047	ug/L		04/19/13 20:58	04/22/13 18:28	1
4,4'-DDT	0.055	U	0.055	0.011	ug/L		04/19/13 20:58	04/22/13 18:28	1
delta-BHC	0.055	U	0.055	0.0032	ug/L		04/19/13 20:58	04/22/13 18:28	1
Dieldrin	0.055	U	0.055	0.0036	ug/L		04/19/13 20:58	04/22/13 18:28	1
Endosulfan I	0.055	U	0.055	0.0033	ug/L		04/19/13 20:58	04/22/13 18:28	1
Endosulfan II	0.055	U	0.055	0.0063	ug/L		04/19/13 20:58	04/22/13 18:28	1
Endosulfan sulfate	0.055	U	0.055	0.0090	ug/L		04/19/13 20:58	04/22/13 18:28	1
Endrin	0.055	U	0.055	0.0092	ug/L		04/19/13 20:58	04/22/13 18:28	1
Endrin aldehyde	0.055	U	0.055	0.010	ug/L		04/19/13 20:58	04/22/13 18:28	1
Endrin ketone	0.055	U	0.055	0.0096	ug/L		04/19/13 20:58	04/22/13 18:28	1
gamma-BHC (Lindane)	0.055	U	0.055	0.0034	ug/L		04/19/13 20:58	04/22/13 18:28	1
Heptachlor	0.055	U	0.055	0.0089	ug/L		04/19/13 20:58	04/22/13 18:28	1
Heptachlor epoxide	0.055	U	0.055	0.011	ug/L		04/19/13 20:58	04/22/13 18:28	1
Isodrin	0.055	U	0.055	0.016	ug/L		04/19/13 20:58	04/22/13 18:28	1
Methoxychlor	0.11	U	0.11	0.015	ug/L		04/19/13 20:58	04/22/13 18:28	1
Toxaphene	0.55	U	0.55	0.16	ug/L		04/19/13 20:58	04/22/13 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*40*		*30 - 131*	*04/19/13 20:58*	*04/22/13 18:28*	*1*
Tetrachloro-m-xylene	*70*		*44 - 120*	*04/19/13 20:58*	*04/22/13 18:28*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.55	U	0.55	0.17	ug/L		04/19/13 20:58	04/23/13 11:14	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89383-1
SDG: AGL89383-1

Client Sample ID: DDMW-1-20130415-01
Date Collected: 04/16/13 11:45
Date Received: 04/16/13 15:10

Lab Sample ID: 680-89383-1
Matrix: Water

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	0.55	U	0.55	0.26	ug/L		04/19/13 20:58	04/23/13 11:14	1
PCB-1232	0.55	U	0.55	0.094	ug/L		04/19/13 20:58	04/23/13 11:14	1
PCB-1242	0.55	U	0.55	0.13	ug/L		04/19/13 20:58	04/23/13 11:14	1
PCB-1248	0.55	U	0.55	0.11	ug/L		04/19/13 20:58	04/23/13 11:14	1
PCB-1254	0.55	U	0.55	0.11	ug/L		04/19/13 20:58	04/23/13 11:14	1
PCB-1260	0.55	U	0.55	0.11	ug/L		04/19/13 20:58	04/23/13 11:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*50 - 120*	*04/19/13 20:58*	*04/23/13 11:14*	*1*
DCB Decachlorobiphenyl	*35*		*29 - 126*	*04/19/13 20:58*	*04/23/13 11:14*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	2.0	U	2.0	0.38	ug/L		04/18/13 18:17	04/22/13 12:55	1
Azinphos-methyl	1.0	U	1.0	0.33	ug/L		04/18/13 18:17	04/22/13 12:55	1
Bolstar	1.0	U	1.0	0.095	ug/L		04/18/13 18:17	04/22/13 12:55	1
Carbophenthion	1.0	U	1.0	0.086	ug/L		04/18/13 18:17	04/22/13 12:55	1
Chlorpyrifos	1.0	U	1.0	0.11	ug/L		04/18/13 18:17	04/22/13 12:55	1
Chlorpyrifos-methyl	1.0	U	1.0	0.083	ug/L		04/18/13 18:17	04/22/13 12:55	1
Coumaphos	1.0	U	1.0	0.081	ug/L		04/18/13 18:17	04/22/13 12:55	1
Demeton, Total	2.5	U	2.5	0.15	ug/L		04/18/13 18:17	04/22/13 12:55	1
Demeton-O	2.5	U	2.5	0.11	ug/L		04/18/13 18:17	04/22/13 12:55	1
Demeton-S	2.5	U	2.5	0.060	ug/L		04/18/13 18:17	04/22/13 12:55	1
Diazinon	1.0	U	1.0	0.11	ug/L		04/18/13 18:17	04/22/13 12:55	1
Dichlofenthion	1.0	U	1.0	0.14	ug/L		04/18/13 18:17	04/22/13 12:55	1
Dichlorvos	2.0	U	2.0	0.26	ug/L		04/18/13 18:17	04/22/13 12:55	1
Dimethoate	2.0	U	2.0	0.32	ug/L		04/18/13 18:17	04/22/13 12:55	1
Disulfoton	2.0	U	2.0	0.12	ug/L		04/18/13 18:17	04/22/13 12:55	1
EPN	1.0	U	1.0	0.071	ug/L		04/18/13 18:17	04/22/13 12:55	1
Ethion	0.50	U	0.50	0.11	ug/L		04/18/13 18:17	04/22/13 12:55	1
Famphur	2.0	U	2.0	0.11	ug/L		04/18/13 18:17	04/22/13 12:55	1
Fensulfothion	5.0	U	5.0	0.17	ug/L		04/18/13 18:17	04/22/13 12:55	1
Fenthion	1.0	U	1.0	0.11	ug/L		04/18/13 18:17	04/22/13 12:55	1
Malathion	1.0	U	1.0	0.092	ug/L		04/18/13 18:17	04/22/13 12:55	1
Merphos	1.0	U	1.0	0.13	ug/L		04/18/13 18:17	04/22/13 12:55	1
Methyl parathion	0.50	U	0.50	0.12	ug/L		04/18/13 18:17	04/22/13 12:55	1
Mevinphos	2.0	U	2.0	0.15	ug/L		04/18/13 18:17	04/22/13 12:55	1
Ethoprop	0.50	U	0.50	0.41	ug/L		04/18/13 18:17	04/22/13 12:55	1
Monochrotophos	10	U	10	2.6	ug/L		04/18/13 18:17	04/22/13 12:55	1
Naled	5.0	U	5.0	0.36	ug/L		04/18/13 18:17	04/22/13 12:55	1
Ethyl Parathion	1.0	U	1.0	0.080	ug/L		04/18/13 18:17	04/22/13 12:55	1
Phorate	1.0	U	1.0	0.16	ug/L		04/18/13 18:17	04/22/13 12:55	1
Ronnel	1.0	U	1.0	0.13	ug/L		04/18/13 18:17	04/22/13 12:55	1
Simazine	2.0	U	2.0	0.37	ug/L		04/18/13 18:17	04/22/13 12:55	1
Stirophos (Tetrachlorvinphos)	1.0	U	1.0	0.084	ug/L		04/18/13 18:17	04/22/13 12:55	1
Sulfotepp	0.50	U	0.50	0.055	ug/L		04/18/13 18:17	04/22/13 12:55	1
Terbufos	1.0	U	1.0	0.082	ug/L		04/18/13 18:17	04/22/13 12:55	1
Thionazin	1.0	U	1.0	0.061	ug/L		04/18/13 18:17	04/22/13 12:55	1
Tokuthion	1.0	U	1.0	0.087	ug/L		04/18/13 18:17	04/22/13 12:55	1
Trichloronate	1.0	U	1.0	0.11	ug/L		04/18/13 18:17	04/22/13 12:55	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89383-1
SDG: AGL89383-1

Client Sample ID: DDMW-1-20130415-01
Date Collected: 04/16/13 11:45
Date Received: 04/16/13 15:10

Lab Sample ID: 680-89383-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate (TPP)	*91*		*37 - 139*	*04/18/13 18:17*	*04/22/13 12:55*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**290**		100	50	ug/L		04/18/13 09:16	04/21/13 11:27	1
Antimony	5.0	U	5.0	2.0	ug/L		04/18/13 09:16	04/21/13 11:27	1
Arsenic	2.5	U	2.5	1.3	ug/L		04/18/13 09:16	04/21/13 11:27	1
Barium	**36**		5.0	1.4	ug/L		04/18/13 09:16	04/21/13 11:27	1
Beryllium	0.50	U	0.50	0.15	ug/L		04/18/13 09:16	04/21/13 11:27	1
Cadmium	0.50	U	0.50	0.13	ug/L		04/18/13 09:16	04/21/13 11:27	1
Calcium	**7700**		500	170	ug/L		04/18/13 09:16	04/21/13 11:27	1
Chromium	5.0	U	5.0	2.5	ug/L		04/18/13 09:16	04/21/13 11:27	1
Cobalt	**0.65**		0.50	0.12	ug/L		04/18/13 09:16	04/21/13 11:27	1
Copper	**1.4**	**J**	5.0	1.1	ug/L		04/18/13 09:16	04/21/13 11:27	1
Iron	**2000**		100	44	ug/L		04/22/13 16:33	04/25/13 16:15	1
Lead	**2.1**		1.5	0.50	ug/L		04/18/13 09:16	04/21/13 11:27	1
Magnesium	**2000**		250	100	ug/L		04/18/13 09:16	04/21/13 11:27	1
Manganese	**74**		5.0	2.0	ug/L		04/18/13 09:16	04/21/13 11:27	1
Nickel	5.0	U	5.0	2.0	ug/L		04/18/13 09:16	04/21/13 11:27	1
Potassium	**4400**		1000	330	ug/L		04/18/13 09:16	04/21/13 11:27	1
Selenium	**3.6**		2.5	1.1	ug/L		04/18/13 09:16	04/21/13 11:27	1
Silver	1.0	U	1.0	0.18	ug/L		04/22/13 16:33	04/25/13 16:15	1
Sodium	**22000**		500	170	ug/L		04/18/13 09:16	04/21/13 11:27	1
Thallium	1.0	U	1.0	0.25	ug/L		04/18/13 09:16	04/21/13 11:27	1
Vanadium	10	U	10	3.2	ug/L		04/18/13 09:16	04/21/13 11:27	1
Zinc	**17**	**J**	20	8.4	ug/L		04/18/13 09:16	04/21/13 11:27	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		04/17/13 11:00	04/18/13 17:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	10	U	10	3.0	ug/L			04/16/13 17:04	1
Cyanide, Total	10	U	10	5.0	ug/L		04/18/13 07:00	04/18/13 13:11	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89383-1
SDG: AGL89383-1

Client Sample ID: DDMW-2-20130415-01
Date Collected: 04/16/13 09:30
Date Received: 04/16/13 15:10

Lab Sample ID: 680-89383-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			04/17/13 18:11	1
Benzene	1.0	U	1.0	0.25	ug/L			04/17/13 18:11	1
Bromobenzene	1.0	U	1.0	0.16	ug/L			04/17/13 18:11	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			04/17/13 18:11	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			04/17/13 18:11	1
Bromoform	1.0	U	1.0	0.50	ug/L			04/17/13 18:11	1
Bromomethane	1.0	U *	1.0	0.80	ug/L			04/17/13 18:11	1
2-Butanone	10	U	10	1.0	ug/L			04/17/13 18:11	1
n-Butylbenzene	1.0	U	1.0	0.10	ug/L			04/17/13 18:11	1
sec-Butylbenzene	1.0	U	1.0	0.16	ug/L			04/17/13 18:11	1
tert-Butylbenzene	1.0	U	1.0	0.12	ug/L			04/17/13 18:11	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			04/17/13 18:11	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			04/17/13 18:11	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/17/13 18:11	1
Chloroprene	1.0	U	1.0	0.30	ug/L			04/17/13 18:11	1
Chloroethane	1.0	U	1.0	1.0	ug/L			04/17/13 18:11	1
Chloroform	1.0	U	1.0	0.14	ug/L			04/17/13 18:11	1
Chloromethane	1.0	U	1.0	0.33	ug/L			04/17/13 18:11	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/L			04/17/13 18:11	1
4-Chlorotoluene	1.0	U	1.0	0.27	ug/L			04/17/13 18:11	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			04/17/13 18:11	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			04/17/13 18:11	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			04/17/13 18:11	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			04/17/13 18:11	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			04/17/13 18:11	1
1,3-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/17/13 18:11	1
1,4-Dichlorobenzene	1.0	U	1.0	0.28	ug/L			04/17/13 18:11	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			04/17/13 18:11	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/17/13 18:11	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			04/17/13 18:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			04/17/13 18:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			04/17/13 18:11	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			04/17/13 18:11	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			04/17/13 18:11	1
1,3-Dichloropropane	1.0	U	1.0	0.13	ug/L			04/17/13 18:11	1
2,2-Dichloropropane	1.0	U	1.0	0.12	ug/L			04/17/13 18:11	1
1,1-Dichloropropene	1.0	U	1.0	0.25	ug/L			04/17/13 18:11	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			04/17/13 18:11	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			04/17/13 18:11	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			04/17/13 18:11	1
Hexachlorobutadiene	1.0	U	1.0	0.40	ug/L			04/17/13 18:11	1
2-Hexanone	10	U	10	1.0	ug/L			04/17/13 18:11	1
Isopropylbenzene	1.0	U	1.0	0.10	ug/L			04/17/13 18:11	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			04/17/13 18:11	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			04/17/13 18:11	1
4-Methyl-2-pentanone	10	U	10	1.0	ug/L			04/17/13 18:11	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			04/17/13 18:11	1
Naphthalene	5.0	U	5.0	1.0	ug/L			04/17/13 18:11	1
N-Propylbenzene	1.0	U	1.0	0.15	ug/L			04/17/13 18:11	1

Client Sample ID: DDMW-2-20130415-01
Date Collected: 04/16/13 09:30
Date Received: 04/16/13 15:10

Lab Sample ID: 680-89383-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U	1.0	0.11	ug/L			04/17/13 18:11	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			04/17/13 18:11	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			04/17/13 18:11	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			04/17/13 18:11	1
Toluene	1.0	U	1.0	0.33	ug/L			04/17/13 18:11	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			04/17/13 18:11	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.25	ug/L			04/17/13 18:11	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			04/17/13 18:11	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			04/17/13 18:11	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			04/17/13 18:11	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			04/17/13 18:11	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			04/17/13 18:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			04/17/13 18:11	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			04/17/13 18:11	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			04/17/13 18:11	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			04/17/13 18:11	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			04/17/13 18:11	1
Cyclohexane	1.0	U	1.0	0.25	ug/L			04/17/13 18:11	1
Methyl acetate	1.0	U	1.0	0.19	ug/L			04/17/13 18:11	1
Methylcyclohexane	1.0	U	1.0	0.10	ug/L			04/17/13 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*04/17/13 18:11*	*1*
Dibromofluoromethane	*102*		*70 - 130*		*04/17/13 18:11*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*04/17/13 18:11*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.1	U	1.1	0.39	ug/L		04/22/13 07:31	04/25/13 18:04	1
Acenaphthylene	1.1	U	1.1	0.34	ug/L		04/22/13 07:31	04/25/13 18:04	1
Acetophenone	5.4	U	5.4	0.87	ug/L		04/22/13 07:31	04/25/13 18:04	1
2-Acetylaminofluorene	5.4	U	5.4	1.1	ug/L		04/22/13 07:31	04/25/13 18:04	1
alpha,alpha-Dimethyl phenethylamine	43	U	43	9.2	ug/L		04/22/13 07:31	04/25/13 18:04	1
4-Aminobiphenyl	11	U	11	1.4	ug/L		04/22/13 07:31	04/25/13 18:04	1
Aniline	21	U	21	3.7	ug/L		04/22/13 07:31	04/25/13 18:04	1
Anthracene	1.1	U	1.1	0.34	ug/L		04/22/13 07:31	04/25/13 18:04	1
Aramite	5.4	U	5.4	1.4	ug/L		04/22/13 07:31	04/25/13 18:04	1
Benzenethiol	21	U	21	11	ug/L		04/22/13 07:31	04/25/13 18:04	1
Benzidine	43	U	43	21	ug/L		04/22/13 07:31	04/25/13 18:04	1
Benzo[a]anthracene	0.21	U	0.21	0.047	ug/L		04/22/13 07:31	04/25/13 18:04	1
Benzo[a]pyrene	0.21	U	0.21	0.060	ug/L		04/22/13 07:31	04/25/13 18:04	1
Benzo[b]fluoranthene	0.21	U	0.21	0.062	ug/L		04/22/13 07:31	04/25/13 18:04	1
Benzo[g,h,i]perylene	1.1	U	1.1	0.45	ug/L		04/22/13 07:31	04/25/13 18:04	1
Benzoic acid	21	U ^	21	4.9	ug/L		04/22/13 07:31	04/25/13 18:04	1
Benzo[k]fluoranthene	0.21	U	0.21	0.079	ug/L		04/22/13 07:31	04/25/13 18:04	1
Benzyl alcohol	21	U	21	3.3	ug/L		04/22/13 07:31	04/25/13 18:04	1
Bis(2-chloroethoxy)methane	2.1	U	2.1	0.32	ug/L		04/22/13 07:31	04/25/13 18:04	1
Bis(2-chloroethyl)ether	2.1	U	2.1	0.38	ug/L		04/22/13 07:31	04/25/13 18:04	1
Bis(2-ethylhexyl) phthalate	11	U	11	2.6	ug/L		04/22/13 07:31	04/25/13 18:04	1
4-Bromophenyl phenyl ether	5.4	U	5.4	0.98	ug/L		04/22/13 07:31	04/25/13 18:04	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89383-1
SDG: AGL89383-1

Client Sample ID: DDMW-2-20130415-01
Date Collected: 04/16/13 09:30
Date Received: 04/16/13 15:10

Lab Sample ID: 680-89383-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	2.1	U	2.1	0.29	ug/L		04/22/13 07:31	04/25/13 18:04	1
Carbofuran	11	U	11	1.5	ug/L		04/22/13 07:31	04/25/13 18:04	1
4-Chloroaniline	11	U ^	11	2.3	ug/L		04/22/13 07:31	04/25/13 18:04	1
4-Chloro-3-methylphenol	11	U	11	2.4	ug/L		04/22/13 07:31	04/25/13 18:04	1
1-Chloronaphthalene	2.1	U	2.1	2.1	ug/L		04/22/13 07:31	04/25/13 18:04	1
2-Chloronaphthalene	2.1	U	2.1	0.37	ug/L		04/22/13 07:31	04/25/13 18:04	1
2-Chlorophenol	5.4	U	5.4	0.86	ug/L		04/22/13 07:31	04/25/13 18:04	1
4-Chlorophenyl phenyl ether	5.4	U	5.4	0.87	ug/L		04/22/13 07:31	04/25/13 18:04	1
Chrysene	0.54	U	0.54	0.15	ug/L		04/22/13 07:31	04/25/13 18:04	1
Diallate	5.4	U	5.4	2.4	ug/L		04/22/13 07:31	04/25/13 18:04	1
Dibenz(a,h)anthracene	0.32	U	0.32	0.069	ug/L		04/22/13 07:31	04/25/13 18:04	1
Dibenz[a,j]acridine	5.4	U	5.4	1.4	ug/L		04/22/13 07:31	04/25/13 18:04	1
Dibenzofuran	2.1	U	2.1	0.38	ug/L		04/22/13 07:31	04/25/13 18:04	1
1,2-Dichlorobenzene	2.1	U	2.1	0.31	ug/L		04/22/13 07:31	04/25/13 18:04	1
1,3-Dichlorobenzene	2.1	U	2.1	0.27	ug/L		04/22/13 07:31	04/25/13 18:04	1
1,4-Dichlorobenzene	2.1	U	2.1	0.29	ug/L		04/22/13 07:31	04/25/13 18:04	1
3,3'-Dichlorobenzidine	5.4	U	5.4	1.0	ug/L		04/22/13 07:31	04/25/13 18:04	1
2,4-Dichlorophenol	11	U	11	2.4	ug/L		04/22/13 07:31	04/25/13 18:04	1
2,6-Dichlorophenol	5.4	U	5.4	0.91	ug/L		04/22/13 07:31	04/25/13 18:04	1
Diethyl phthalate	2.1	U	2.1	0.47	ug/L		04/22/13 07:31	04/25/13 18:04	1
Diethylstilbestrol	21	U	21	2.3	ug/L		04/22/13 07:31	04/25/13 18:04	1
Dimethoate	11	U	11	1.6	ug/L		04/22/13 07:31	04/25/13 18:04	1
7,12-Dimethylbenz(a)anthracene	5.4	U	5.4	2.4	ug/L		04/22/13 07:31	04/25/13 18:04	1
3,3'-Dimethylbenzidine	21	U	21	9.8	ug/L		04/22/13 07:31	04/25/13 18:04	1
2,4-Dimethylphenol	11	U	11	3.6	ug/L		04/22/13 07:31	04/25/13 18:04	1
Dimethyl phthalate	2.1	U	2.1	0.41	ug/L		04/22/13 07:31	04/25/13 18:04	1
Di-n-butyl phthalate	5.4	U	5.4	0.86	ug/L		04/22/13 07:31	04/25/13 18:04	1
1,4-Dinitrobenzene	5.4	U	5.4	2.2	ug/L		04/22/13 07:31	04/25/13 18:04	1
4,6-Dinitro-2-methylphenol	21	U	21	5.3	ug/L		04/22/13 07:31	04/25/13 18:04	1
2,4-Dinitrophenol	21	U	21	8.0	ug/L		04/22/13 07:31	04/25/13 18:04	1
2,4-Dinitrotoluene	1.1	U	1.1	0.32	ug/L		04/22/13 07:31	04/25/13 18:04	1
2,6-Dinitrotoluene	0.54	U	0.54	0.13	ug/L		04/22/13 07:31	04/25/13 18:04	1
Di-n-octyl phthalate	11	U	11	2.7	ug/L		04/22/13 07:31	04/25/13 18:04	1
Dinoseb	11	U	11	3.5	ug/L		04/22/13 07:31	04/25/13 18:04	1
1,4-Dioxane	21	U	21	7.4	ug/L		04/22/13 07:31	04/25/13 18:04	1
Diphenylamine	5.4	U	5.4	1.9	ug/L		04/22/13 07:31	04/25/13 18:04	1
1,2-Diphenylhydrazine	5.4	U	5.4	0.75	ug/L		04/22/13 07:31	04/25/13 18:04	1
Disulfoton	11	U	11	1.5	ug/L		04/22/13 07:31	04/25/13 18:04	1
Ethyl 4,4'-Dichlorobenzilate	5.4	U	5.4	1.5	ug/L		04/22/13 07:31	04/25/13 18:04	1
Ethyl methanesulfonate	5.4	U	5.4	2.1	ug/L		04/22/13 07:31	04/25/13 18:04	1
Ethyl Parathion	11	U	11	1.8	ug/L		04/22/13 07:31	04/25/13 18:04	1
Famphur	11	U	11	1.6	ug/L		04/22/13 07:31	04/25/13 18:04	1
Fluoranthene	1.1	U	1.1	0.34	ug/L		04/22/13 07:31	04/25/13 18:04	1
Fluorene	1.1	U	1.1	0.41	ug/L		04/22/13 07:31	04/25/13 18:04	1
Hexachlorobenzene	0.54	U	0.54	0.15	ug/L		04/22/13 07:31	04/25/13 18:04	1
Hexachlorobutadiene	5.4	U	5.4	1.2	ug/L		04/22/13 07:31	04/25/13 18:04	1
Hexachlorocyclopentadiene	21	U	21	3.7	ug/L		04/22/13 07:31	04/25/13 18:04	1
Hexachloroethane	5.4	U	5.4	1.0	ug/L		04/22/13 07:31	04/25/13 18:04	1
Hexachlorophene	110	U	110	56	ug/L		04/22/13 07:31	04/25/13 18:04	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89383-1
SDG: AGL89383-1

Client Sample ID: DDMW-2-20130415-01
Date Collected: 04/16/13 09:30
Date Received: 04/16/13 15:10

Lab Sample ID: 680-89383-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloropropene	21	U	21	3.2	ug/L		04/22/13 07:31	04/25/13 18:04	1
Indeno[1,2,3-cd]pyrene	0.21	U	0.21	0.090	ug/L		04/22/13 07:31	04/25/13 18:04	1
Isophorone	2.1	U	2.1	0.31	ug/L		04/22/13 07:31	04/25/13 18:04	1
Isosafrole	5.4	U	5.4	1.9	ug/L		04/22/13 07:31	04/25/13 18:04	1
Malathion	11	U	11	1.8	ug/L		04/22/13 07:31	04/25/13 18:04	1
m-Dinitrobenzene	5.4	U	5.4	2.1	ug/L		04/22/13 07:31	04/25/13 18:04	1
Methapyrilene	43	U	43	7.0	ug/L		04/22/13 07:31	04/25/13 18:04	1
3-Methylcholanthrene	5.4	U	5.4	1.1	ug/L		04/22/13 07:31	04/25/13 18:04	1
Methyl methanesulfonate	5.4	U	5.4	2.0	ug/L		04/22/13 07:31	04/25/13 18:04	1
2-Methylnaphthalene	0.54	U	0.54	0.14	ug/L		04/22/13 07:31	04/25/13 18:04	1
Methyl parathion	11	U	11	1.7	ug/L		04/22/13 07:31	04/25/13 18:04	1
2-Methylphenol	2.1	U	2.1	0.33	ug/L		04/22/13 07:31	04/25/13 18:04	1
3 & 4 Methylphenol	2.1	U ^	2.1	0.47	ug/L		04/22/13 07:31	04/25/13 18:04	1
Naphthalene	1.1	U	1.1	0.32	ug/L		04/22/13 07:31	04/25/13 18:04	1
1,4-Naphthoquinone	11	U	11	1.9	ug/L		04/22/13 07:31	04/25/13 18:04	1
1-Naphthylamine	11	U	11	1.5	ug/L		04/22/13 07:31	04/25/13 18:04	1
2-Naphthylamine	11	U	11	1.5	ug/L		04/22/13 07:31	04/25/13 18:04	1
2-Nitroaniline	5.4	U	5.4	1.2	ug/L		04/22/13 07:31	04/25/13 18:04	1
3-Nitroaniline	11	U	11	2.5	ug/L		04/22/13 07:31	04/25/13 18:04	1
4-Nitroaniline	11	U	11	4.2	ug/L		04/22/13 07:31	04/25/13 18:04	1
Nitrobenzene	1.1	U	1.1	0.48	ug/L		04/22/13 07:31	04/25/13 18:04	1
5-Nitro-o-toluidine	5.4	U	5.4	1.7	ug/L		04/22/13 07:31	04/25/13 18:04	1
2-Nitrophenol	11	U	11	2.3	ug/L		04/22/13 07:31	04/25/13 18:04	1
4-Nitrophenol	21	U	21	2.5	ug/L		04/22/13 07:31	04/25/13 18:04	1
4-Nitroquinoline-1-oxide	21	U	21	13	ug/L		04/22/13 07:31	04/25/13 18:04	1
N-Nitrosodiethylamine	5.4	U	5.4	1.2	ug/L		04/22/13 07:31	04/25/13 18:04	1
N-Nitrosodimethylamine	11	U	11	1.5	ug/L		04/22/13 07:31	04/25/13 18:04	1
N-Nitrosodi-n-butylamine	5.4	U	5.4	1.1	ug/L		04/22/13 07:31	04/25/13 18:04	1
N-Nitrosodi-n-propylamine	0.54	U	0.54	0.15	ug/L		04/22/13 07:31	04/25/13 18:04	1
N-Nitrosodiphenylamine	1.1	U	1.1	0.37	ug/L		04/22/13 07:31	04/25/13 18:04	1
N-Nitrosomethylethylamine	5.4	U	5.4	1.2	ug/L		04/22/13 07:31	04/25/13 18:04	1
N-Nitrosomorpholine	5.4	U	5.4	2.6	ug/L		04/22/13 07:31	04/25/13 18:04	1
N-Nitrosopiperidine	5.4	U	5.4	0.87	ug/L		04/22/13 07:31	04/25/13 18:04	1
N-Nitrosopyrrolidine	5.4	U	5.4	0.85	ug/L		04/22/13 07:31	04/25/13 18:04	1
o,o',o''-Triethylphosphorothioate	11	U	11	1.6	ug/L		04/22/13 07:31	04/25/13 18:04	1
o-Toluidine	5.4	U	5.4	1.8	ug/L		04/22/13 07:31	04/25/13 18:04	1
2,2'-oxybis[1-chloropropane]	2.1	U	2.1	0.32	ug/L		04/22/13 07:31	04/25/13 18:04	1
p-Dimethylamino azobenzene	5.4	U	5.4	1.3	ug/L		04/22/13 07:31	04/25/13 18:04	1
Pentachlorobenzene	5.4	U	5.4	1.1	ug/L		04/22/13 07:31	04/25/13 18:04	1
Pentachloronitrobenzene	5.4	U	5.4	1.8	ug/L		04/22/13 07:31	04/25/13 18:04	1
Pentachlorophenol	21	U	21	6.0	ug/L		04/22/13 07:31	04/25/13 18:04	1
Phenacetin	5.4	U	5.4	2.0	ug/L		04/22/13 07:31	04/25/13 18:04	1
Phenanthrene	1.1	U	1.1	0.38	ug/L		04/22/13 07:31	04/25/13 18:04	1
Phenol	5.4	U ^	5.4	0.39	ug/L		04/22/13 07:31	04/25/13 18:04	1
Phorate	11	U	11	1.6	ug/L		04/22/13 07:31	04/25/13 18:04	1
2-Picoline	11	U	11	1.4	ug/L		04/22/13 07:31	04/25/13 18:04	1
p-Phenylene diamine	43	U	43	21	ug/L		04/22/13 07:31	04/25/13 18:04	1
Pronamide	11	U	11	1.2	ug/L		04/22/13 07:31	04/25/13 18:04	1
Pyrene	1.1	U	1.1	0.52	ug/L		04/22/13 07:31	04/25/13 18:04	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89383-1
SDG: AGL89383-1

Client Sample ID: DDMW-2-20130415-01
Date Collected: 04/16/13 09:30
Date Received: 04/16/13 15:10

Lab Sample ID: 680-89383-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	21	U	21	7.7	ug/L		04/22/13 07:31	04/25/13 18:04	1
Safrole	5.4	U	5.4	2.0	ug/L		04/22/13 07:31	04/25/13 18:04	1
Sulfotepp	11	U	11	1.2	ug/L		04/22/13 07:31	04/25/13 18:04	1
sym-Trinitrobenzene	5.4	U	5.4	2.5	ug/L		04/22/13 07:31	04/25/13 18:04	1
1,2,4,5-Tetrachlorobenzene	5.4	U	5.4	1.3	ug/L		04/22/13 07:31	04/25/13 18:04	1
2,3,4,6-Tetrachlorophenol	5.4	U	5.4	1.6	ug/L		04/22/13 07:31	04/25/13 18:04	1
Thionazin	11	U	11	2.0	ug/L		04/22/13 07:31	04/25/13 18:04	1
1,2,4-Trichlorobenzene	2.1	U	2.1	0.32	ug/L		04/22/13 07:31	04/25/13 18:04	1
2,4,5-Trichlorophenol	11	U	11	2.5	ug/L		04/22/13 07:31	04/25/13 18:04	1
2,4,6-Trichlorophenol	5.4	U	5.4	1.2	ug/L		04/22/13 07:31	04/25/13 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*48 - 110*	*04/22/13 07:31*	*04/25/13 18:04*	*1*
2-Fluorophenol	*39*		*20 - 100*	*04/22/13 07:31*	*04/25/13 18:04*	*1*
Nitrobenzene-d5	*64*		*41 - 110*	*04/22/13 07:31*	*04/25/13 18:04*	*1*
Phenol-d5	*26*		*20 - 100*	*04/22/13 07:31*	*04/25/13 18:04*	*1*
Terphenyl-d14	*94*		*44 - 132*	*04/22/13 07:31*	*04/25/13 18:04*	*1*
2,4,6-Tribromophenol	*89*		*50 - 129*	*04/22/13 07:31*	*04/25/13 18:04*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.051	U	0.051	0.0060	ug/L		04/19/13 20:58	04/22/13 18:48	1
alpha-BHC	0.051	U	0.051	0.0072	ug/L		04/19/13 20:58	04/22/13 18:48	1
beta-BHC	0.051	U	0.051	0.0078	ug/L		04/19/13 20:58	04/22/13 18:48	1
Chlordane (technical)	0.10	U	0.10	0.038	ug/L		04/19/13 20:58	04/22/13 18:48	1
4,4'-DDD	0.051	U	0.051	0.0049	ug/L		04/19/13 20:58	04/22/13 18:48	1
4,4'-DDE	0.051	U	0.051	0.0044	ug/L		04/19/13 20:58	04/22/13 18:48	1
4,4'-DDT	0.051	U	0.051	0.011	ug/L		04/19/13 20:58	04/22/13 18:48	1
delta-BHC	0.051	U	0.051	0.0030	ug/L		04/19/13 20:58	04/22/13 18:48	1
Dieldrin	0.051	U	0.051	0.0033	ug/L		04/19/13 20:58	04/22/13 18:48	1
Endosulfan I	0.051	U	0.051	0.0030	ug/L		04/19/13 20:58	04/22/13 18:48	1
Endosulfan II	0.051	U	0.051	0.0058	ug/L		04/19/13 20:58	04/22/13 18:48	1
Endosulfan sulfate	0.051	U	0.051	0.0083	ug/L		04/19/13 20:58	04/22/13 18:48	1
Endrin	0.051	U	0.051	0.0086	ug/L		04/19/13 20:58	04/22/13 18:48	1
Endrin aldehyde	0.051	U	0.051	0.0093	ug/L		04/19/13 20:58	04/22/13 18:48	1
Endrin ketone	0.051	U	0.051	0.0089	ug/L		04/19/13 20:58	04/22/13 18:48	1
gamma-BHC (Lindane)	0.051	U	0.051	0.0031	ug/L		04/19/13 20:58	04/22/13 18:48	1
Heptachlor	0.051	U	0.051	0.0083	ug/L		04/19/13 20:58	04/22/13 18:48	1
Heptachlor epoxide	0.051	U	0.051	0.011	ug/L		04/19/13 20:58	04/22/13 18:48	1
Isodrin	0.051	U	0.051	0.015	ug/L		04/19/13 20:58	04/22/13 18:48	1
Methoxychlor	0.10	U	0.10	0.014	ug/L		04/19/13 20:58	04/22/13 18:48	1
Toxaphene	0.51	U	0.51	0.15	ug/L		04/19/13 20:58	04/22/13 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*70*		*30 - 131*	*04/19/13 20:58*	*04/22/13 18:48*	*1*
Tetrachloro-m-xylene	*84*		*44 - 120*	*04/19/13 20:58*	*04/22/13 18:48*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.51	U	0.51	0.16	ug/L		04/19/13 20:58	04/23/13 11:28	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89383-1
SDG: AGL89383-1

Client Sample ID: DDMW-2-20130415-01
Date Collected: 04/16/13 09:30
Date Received: 04/16/13 15:10

Lab Sample ID: 680-89383-2
Matrix: Water

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	0.51	U	0.51	0.24	ug/L		04/19/13 20:58	04/23/13 11:28	1
PCB-1232	0.51	U	0.51	0.087	ug/L		04/19/13 20:58	04/23/13 11:28	1
PCB-1242	0.51	U	0.51	0.12	ug/L		04/19/13 20:58	04/23/13 11:28	1
PCB-1248	0.51	U	0.51	0.10	ug/L		04/19/13 20:58	04/23/13 11:28	1
PCB-1254	0.51	U	0.51	0.10	ug/L		04/19/13 20:58	04/23/13 11:28	1
PCB-1260	0.51	U	0.51	0.11	ug/L		04/19/13 20:58	04/23/13 11:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*50 - 120*	*04/19/13 20:58*	*04/23/13 11:28*	*1*
DCB Decachlorobiphenyl	*61*		*29 - 126*	*04/19/13 20:58*	*04/23/13 11:28*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	2.0	U	2.0	0.38	ug/L		04/18/13 18:17	04/22/13 13:10	1
Azinphos-methyl	1.0	U	1.0	0.33	ug/L		04/18/13 18:17	04/22/13 13:10	1
Bolstar	1.0	U	1.0	0.095	ug/L		04/18/13 18:17	04/22/13 13:10	1
Carbophenthion	1.0	U	1.0	0.086	ug/L		04/18/13 18:17	04/22/13 13:10	1
Chlorpyrifos	1.0	U	1.0	0.11	ug/L		04/18/13 18:17	04/22/13 13:10	1
Chlorpyrifos-methyl	1.0	U	1.0	0.083	ug/L		04/18/13 18:17	04/22/13 13:10	1
Coumaphos	1.0	U	1.0	0.081	ug/L		04/18/13 18:17	04/22/13 13:10	1
Demeton, Total	2.5	U	2.5	0.15	ug/L		04/18/13 18:17	04/22/13 13:10	1
Demeton-O	2.5	U	2.5	0.11	ug/L		04/18/13 18:17	04/22/13 13:10	1
Demeton-S	2.5	U	2.5	0.060	ug/L		04/18/13 18:17	04/22/13 13:10	1
Diazinon	1.0	U	1.0	0.11	ug/L		04/18/13 18:17	04/22/13 13:10	1
Dichlofenthion	1.0	U	1.0	0.14	ug/L		04/18/13 18:17	04/22/13 13:10	1
Dichlorvos	2.0	U	2.0	0.26	ug/L		04/18/13 18:17	04/22/13 13:10	1
Dimethoate	2.0	U	2.0	0.32	ug/L		04/18/13 18:17	04/22/13 13:10	1
Disulfoton	2.0	U	2.0	0.12	ug/L		04/18/13 18:17	04/22/13 13:10	1
EPN	1.0	U	1.0	0.071	ug/L		04/18/13 18:17	04/22/13 13:10	1
Ethion	0.50	U	0.50	0.11	ug/L		04/18/13 18:17	04/22/13 13:10	1
Famphur	2.0	U	2.0	0.11	ug/L		04/18/13 18:17	04/22/13 13:10	1
Fensulfothion	5.0	U	5.0	0.17	ug/L		04/18/13 18:17	04/22/13 13:10	1
Fenthion	1.0	U	1.0	0.11	ug/L		04/18/13 18:17	04/22/13 13:10	1
Malathion	1.0	U	1.0	0.092	ug/L		04/18/13 18:17	04/22/13 13:10	1
Merphos	1.0	U	1.0	0.13	ug/L		04/18/13 18:17	04/22/13 13:10	1
Methyl parathion	0.50	U	0.50	0.12	ug/L		04/18/13 18:17	04/22/13 13:10	1
Mevinphos	2.0	U	2.0	0.15	ug/L		04/18/13 18:17	04/22/13 13:10	1
Ethoprop	0.50	U	0.50	0.41	ug/L		04/18/13 18:17	04/22/13 13:10	1
Monochrotophos	10	U	10	2.6	ug/L		04/18/13 18:17	04/22/13 13:10	1
Naled	5.0	U	5.0	0.36	ug/L		04/18/13 18:17	04/22/13 13:10	1
Ethyl Parathion	1.0	U	1.0	0.080	ug/L		04/18/13 18:17	04/22/13 13:10	1
Phorate	1.0	U	1.0	0.16	ug/L		04/18/13 18:17	04/22/13 13:10	1
Ronnel	1.0	U	1.0	0.13	ug/L		04/18/13 18:17	04/22/13 13:10	1
Simazine	2.0	U	2.0	0.37	ug/L		04/18/13 18:17	04/22/13 13:10	1
Stirophos (Tetrachlorvinphos)	1.0	U	1.0	0.084	ug/L		04/18/13 18:17	04/22/13 13:10	1
Sulfotepp	0.50	U	0.50	0.055	ug/L		04/18/13 18:17	04/22/13 13:10	1
Terbufos	1.0	U	1.0	0.082	ug/L		04/18/13 18:17	04/22/13 13:10	1
Thionazin	1.0	U	1.0	0.061	ug/L		04/18/13 18:17	04/22/13 13:10	1
Tokuthion	1.0	U	1.0	0.087	ug/L		04/18/13 18:17	04/22/13 13:10	1
Trichloronate	1.0	U	1.0	0.11	ug/L		04/18/13 18:17	04/22/13 13:10	1

Client Sample ID: DDMW-2-20130415-01

Date Collected: 04/16/13 09:30
Date Received: 04/16/13 15:10

Lab Sample ID: 680-89383-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate (TPP)	*84*		*37 - 139*	*04/18/13 18:17*	*04/22/13 13:10*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**210**		100	50	ug/L		04/18/13 09:16	04/21/13 11:34	1
Antimony	5.0	U	5.0	2.0	ug/L		04/18/13 09:16	04/21/13 11:34	1
Arsenic	2.5	U	2.5	1.3	ug/L		04/18/13 09:16	04/21/13 11:34	1
Barium	**84**		5.0	1.4	ug/L		04/18/13 09:16	04/21/13 11:34	1
Beryllium	0.50	U	0.50	0.15	ug/L		04/18/13 09:16	04/21/13 11:34	1
Cadmium	0.50	U	0.50	0.13	ug/L		04/18/13 09:16	04/21/13 11:34	1
Calcium	**47000**		500	170	ug/L		04/18/13 09:16	04/21/13 11:34	1
Chromium	5.0	U	5.0	2.5	ug/L		04/18/13 09:16	04/21/13 11:34	1
Cobalt	**0.73**		0.50	0.12	ug/L		04/18/13 09:16	04/21/13 11:34	1
Copper	5.0	U	5.0	1.1	ug/L		04/18/13 09:16	04/21/13 11:34	1
Iron	**620**		100	44	ug/L		04/22/13 16:33	04/25/13 16:22	1
Lead	1.5	U	1.5	0.50	ug/L		04/18/13 09:16	04/21/13 11:34	1
Magnesium	**7800**		250	100	ug/L		04/18/13 09:16	04/21/13 11:34	1
Manganese	**110**		5.0	2.0	ug/L		04/18/13 09:16	04/21/13 11:34	1
Nickel	**3.1**	**J**	5.0	2.0	ug/L		04/18/13 09:16	04/21/13 11:34	1
Potassium	**7900**		1000	330	ug/L		04/18/13 09:16	04/21/13 11:34	1
Selenium	**5.8**		2.5	1.1	ug/L		04/18/13 09:16	04/21/13 11:34	1
Silver	1.0	U	1.0	0.18	ug/L		04/22/13 16:33	04/25/13 16:22	1
Sodium	**15000**		500	170	ug/L		04/18/13 09:16	04/21/13 11:34	1
Thallium	1.0	U	1.0	0.25	ug/L		04/18/13 09:16	04/21/13 11:34	1
Vanadium	10	U	10	3.2	ug/L		04/18/13 09:16	04/21/13 11:34	1
Zinc	**22**		20	8.4	ug/L		04/18/13 09:16	04/21/13 11:34	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		04/17/13 11:00	04/18/13 17:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	10	U	10	3.0	ug/L			04/16/13 17:04	1
Cyanide, Total	10	U	10	5.0	ug/L		04/18/13 07:00	04/18/13 13:12	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89383-1
SDG: AGL89383-1

Client Sample ID: TB-01-20130415-01 (ATL-143)
Date Collected: 04/16/13 00:00
Date Received: 04/16/13 15:10

Lab Sample ID: 680-89383-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			04/17/13 12:17	1
Benzene	1.0	U	1.0	0.25	ug/L			04/17/13 12:17	1
Bromobenzene	1.0	U	1.0	0.16	ug/L			04/17/13 12:17	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			04/17/13 12:17	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			04/17/13 12:17	1
Bromoform	1.0	U	1.0	0.50	ug/L			04/17/13 12:17	1
Bromomethane	1.0	U *	1.0	0.80	ug/L			04/17/13 12:17	1
2-Butanone	10	U	10	1.0	ug/L			04/17/13 12:17	1
n-Butylbenzene	1.0	U	1.0	0.10	ug/L			04/17/13 12:17	1
sec-Butylbenzene	1.0	U	1.0	0.16	ug/L			04/17/13 12:17	1
tert-Butylbenzene	1.0	U	1.0	0.12	ug/L			04/17/13 12:17	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			04/17/13 12:17	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			04/17/13 12:17	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/17/13 12:17	1
Chloroprene	1.0	U	1.0	0.30	ug/L			04/17/13 12:17	1
Chloroethane	1.0	U	1.0	1.0	ug/L			04/17/13 12:17	1
Chloroform	1.0	U	1.0	0.14	ug/L			04/17/13 12:17	1
Chloromethane	1.0	U	1.0	0.33	ug/L			04/17/13 12:17	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/L			04/17/13 12:17	1
4-Chlorotoluene	1.0	U	1.0	0.27	ug/L			04/17/13 12:17	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			04/17/13 12:17	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			04/17/13 12:17	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			04/17/13 12:17	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			04/17/13 12:17	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			04/17/13 12:17	1
1,3-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/17/13 12:17	1
1,4-Dichlorobenzene	1.0	U	1.0	0.28	ug/L			04/17/13 12:17	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			04/17/13 12:17	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/17/13 12:17	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			04/17/13 12:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			04/17/13 12:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			04/17/13 12:17	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			04/17/13 12:17	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			04/17/13 12:17	1
1,3-Dichloropropane	1.0	U	1.0	0.13	ug/L			04/17/13 12:17	1
2,2-Dichloropropane	1.0	U	1.0	0.12	ug/L			04/17/13 12:17	1
1,1-Dichloropropene	1.0	U	1.0	0.25	ug/L			04/17/13 12:17	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			04/17/13 12:17	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			04/17/13 12:17	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			04/17/13 12:17	1
Hexachlorobutadiene	1.0	U	1.0	0.40	ug/L			04/17/13 12:17	1
2-Hexanone	10	U	10	1.0	ug/L			04/17/13 12:17	1
Isopropylbenzene	1.0	U	1.0	0.10	ug/L			04/17/13 12:17	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			04/17/13 12:17	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			04/17/13 12:17	1
4-Methyl-2-pentanone	10	U	10	1.0	ug/L			04/17/13 12:17	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			04/17/13 12:17	1
Naphthalene	5.0	U	5.0	1.0	ug/L			04/17/13 12:17	1
N-Propylbenzene	1.0	U	1.0	0.15	ug/L			04/17/13 12:17	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89383-1
SDG: AGL89383-1

Client Sample ID: TB-01-20130415-01 (ATL-143)
Date Collected: 04/16/13 00:00
Date Received: 04/16/13 15:10

Lab Sample ID: 680-89383-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U	1.0	0.11	ug/L			04/17/13 12:17	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			04/17/13 12:17	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			04/17/13 12:17	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			04/17/13 12:17	1
Toluene	1.0	U	1.0	0.33	ug/L			04/17/13 12:17	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			04/17/13 12:17	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.25	ug/L			04/17/13 12:17	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			04/17/13 12:17	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			04/17/13 12:17	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			04/17/13 12:17	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			04/17/13 12:17	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			04/17/13 12:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			04/17/13 12:17	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			04/17/13 12:17	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			04/17/13 12:17	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			04/17/13 12:17	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			04/17/13 12:17	1
Cyclohexane	1.0	U	1.0	0.25	ug/L			04/17/13 12:17	1
Methyl acetate	1.0	U	1.0	0.19	ug/L			04/17/13 12:17	1
Methylcyclohexane	1.0	U	1.0	0.10	ug/L			04/17/13 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*70 - 130*		*04/17/13 12:17*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*04/17/13 12:17*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*04/17/13 12:17*	*1*

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

Lab Sample ID: MB 680-273341/7
Matrix: Water
Analysis Batch: 273341

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			04/17/13 10:49	1
Benzene	1.0	U	1.0	0.25	ug/L			04/17/13 10:49	1
Bromobenzene	1.0	U	1.0	0.16	ug/L			04/17/13 10:49	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			04/17/13 10:49	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			04/17/13 10:49	1
Bromoform	1.0	U	1.0	0.50	ug/L			04/17/13 10:49	1
Bromomethane	1.0	U	1.0	0.80	ug/L			04/17/13 10:49	1
2-Butanone	10	U	10	1.0	ug/L			04/17/13 10:49	1
n-Butylbenzene	1.0	U	1.0	0.10	ug/L			04/17/13 10:49	1
sec-Butylbenzene	1.0	U	1.0	0.16	ug/L			04/17/13 10:49	1
tert-Butylbenzene	1.0	U	1.0	0.12	ug/L			04/17/13 10:49	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			04/17/13 10:49	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			04/17/13 10:49	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/17/13 10:49	1
Chloroprene	1.0	U	1.0	0.30	ug/L			04/17/13 10:49	1
Chloroethane	1.0	U	1.0	1.0	ug/L			04/17/13 10:49	1
Chloroform	1.0	U	1.0	0.14	ug/L			04/17/13 10:49	1
Chloromethane	1.0	U	1.0	0.33	ug/L			04/17/13 10:49	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/L			04/17/13 10:49	1
4-Chlorotoluene	1.0	U	1.0	0.27	ug/L			04/17/13 10:49	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			04/17/13 10:49	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			04/17/13 10:49	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			04/17/13 10:49	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			04/17/13 10:49	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			04/17/13 10:49	1
1,3-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/17/13 10:49	1
1,4-Dichlorobenzene	1.0	U	1.0	0.28	ug/L			04/17/13 10:49	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			04/17/13 10:49	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/17/13 10:49	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			04/17/13 10:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			04/17/13 10:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			04/17/13 10:49	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			04/17/13 10:49	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			04/17/13 10:49	1
1,3-Dichloropropane	1.0	U	1.0	0.13	ug/L			04/17/13 10:49	1
2,2-Dichloropropane	1.0	U	1.0	0.12	ug/L			04/17/13 10:49	1
1,1-Dichloropropene	1.0	U	1.0	0.25	ug/L			04/17/13 10:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			04/17/13 10:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			04/17/13 10:49	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			04/17/13 10:49	1
Hexachlorobutadiene	1.0	U	1.0	0.40	ug/L			04/17/13 10:49	1
2-Hexanone	10	U	10	1.0	ug/L			04/17/13 10:49	1
Isopropylbenzene	1.0	U	1.0	0.10	ug/L			04/17/13 10:49	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			04/17/13 10:49	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			04/17/13 10:49	1
4-Methyl-2-pentanone	10	U	10	1.0	ug/L			04/17/13 10:49	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			04/17/13 10:49	1
Naphthalene	5.0	U	5.0	1.0	ug/L			04/17/13 10:49	1

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

Lab Sample ID: MB 680-273341/7
Matrix: Water
Analysis Batch: 273341

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	1.0	U	1.0	0.15	ug/L			04/17/13 10:49	1
Styrene	1.0	U	1.0	0.11	ug/L			04/17/13 10:49	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			04/17/13 10:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			04/17/13 10:49	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			04/17/13 10:49	1
Toluene	1.0	U	1.0	0.33	ug/L			04/17/13 10:49	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			04/17/13 10:49	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.25	ug/L			04/17/13 10:49	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			04/17/13 10:49	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			04/17/13 10:49	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			04/17/13 10:49	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			04/17/13 10:49	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			04/17/13 10:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			04/17/13 10:49	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			04/17/13 10:49	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			04/17/13 10:49	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			04/17/13 10:49	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			04/17/13 10:49	1
Cyclohexane	1.0	U	1.0	0.25	ug/L			04/17/13 10:49	1
Methyl acetate	1.0	U	1.0	0.19	ug/L			04/17/13 10:49	1
Methylcyclohexane	1.0	U	1.0	0.10	ug/L			04/17/13 10:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*04/17/13 10:49*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*04/17/13 10:49*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/17/13 10:49*	*1*

Lab Sample ID: LCS 680-273341/4
Matrix: Water
Analysis Batch: 273341

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	86.2		ug/L		86	39 - 162
Benzene	50.0	48.8		ug/L		98	74 - 123
Bromobenzene	50.0	51.2		ug/L		102	79 - 125
Bromochloromethane	50.0	51.8		ug/L		104	60 - 136
Bromodichloromethane	50.0	50.0		ug/L		100	72 - 129
Bromoform	50.0	39.7		ug/L		79	60 - 134
Bromomethane	50.0	24.6		ug/L		49	10 - 171
2-Butanone	100	103		ug/L		103	55 - 142
n-Butylbenzene	50.0	47.4		ug/L		95	72 - 128
sec-Butylbenzene	50.0	48.7		ug/L		97	71 - 130
tert-Butylbenzene	50.0	47.9		ug/L		96	72 - 130
Carbon disulfide	50.0	49.7		ug/L		99	63 - 142
Carbon tetrachloride	50.0	44.5		ug/L		89	70 - 131
Chlorobenzene	50.0	50.4		ug/L		101	79 - 120
Chloroethane	50.0	42.9		ug/L		86	47 - 148
Chloroform	50.0	50.8		ug/L		102	76 - 128

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

Lab Sample ID: LCS 680-273341/4
Matrix: Water
Analysis Batch: 273341

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	49.0		ug/L		98	47 - 151
2-Chlorotoluene	50.0	52.4		ug/L		105	78 - 126
4-Chlorotoluene	50.0	53.9		ug/L		108	79 - 124
Dibromochloromethane	50.0	41.7		ug/L		83	63 - 134
1,2-Dibromo-3-Chloropropane	50.0	43.9		ug/L		88	57 - 126
1,2-Dibromoethane	50.0	51.4		ug/L		103	75 - 127
Dibromomethane	50.0	50.1		ug/L		100	75 - 122
1,2-Dichlorobenzene	50.0	52.8		ug/L		106	77 - 124
1,3-Dichlorobenzene	50.0	52.2		ug/L		104	79 - 123
1,4-Dichlorobenzene	50.0	52.0		ug/L		104	76 - 124
Dichlorodifluoromethane	50.0	46.4		ug/L		93	41 - 165
1,1-Dichloroethane	50.0	47.7		ug/L		95	69 - 132
1,2-Dichloroethane	50.0	44.9		ug/L		90	75 - 120
cis-1,2-Dichloroethene	50.0	51.2		ug/L		102	78 - 127
trans-1,2-Dichloroethene	50.0	51.8		ug/L		104	78 - 130
1,1-Dichloroethene	50.0	44.9		ug/L		90	73 - 134
1,2-Dichloropropane	50.0	43.6		ug/L		87	71 - 126
1,3-Dichloropropane	50.0	44.0		ug/L		88	73 - 125
2,2-Dichloropropane	50.0	44.0		ug/L		88	72 - 147
1,1-Dichloropropene	50.0	41.7		ug/L		83	74 - 130
cis-1,3-Dichloropropene	50.0	45.6		ug/L		91	73 - 128
trans-1,3-Dichloropropene	50.0	39.4		ug/L		79	72 - 127
Ethylbenzene	50.0	51.8		ug/L		104	78 - 125
Hexachlorobutadiene	50.0	55.0		ug/L		110	62 - 145
2-Hexanone	100	97.5		ug/L		98	52 - 149
Isopropylbenzene	50.0	51.0		ug/L		102	72 - 129
p-Isopropyltoluene	50.0	47.7		ug/L		95	69 - 129
Methylene Chloride	50.0	51.4		ug/L		103	79 - 124
4-Methyl-2-pentanone	100	96.6		ug/L		97	51 - 143
Methyl tert-butyl ether	100	98.8		ug/L		99	76 - 126
N-Propylbenzene	50.0	48.4		ug/L		97	74 - 130
Styrene	50.0	47.4		ug/L		95	75 - 129
1,1,1,2-Tetrachloroethane	50.0	43.5		ug/L		87	68 - 132
1,1,2,2-Tetrachloroethane	50.0	47.8		ug/L		96	71 - 127
Tetrachloroethene	50.0	45.3		ug/L		91	77 - 128
Toluene	50.0	52.0		ug/L		104	77 - 125
1,2,3-Trichlorobenzene	50.0	54.7		ug/L		109	63 - 136
1,2,4-Trichlorobenzene	50.0	55.6		ug/L		111	67 - 134
1,1,1-Trichloroethane	50.0	44.8		ug/L		90	76 - 126
1,1,2-Trichloroethane	50.0	52.3		ug/L		105	69 - 127
Trichloroethene	50.0	48.5		ug/L		97	80 - 120
Trichlorofluoromethane	50.0	43.9		ug/L		88	66 - 144
1,2,3-Trichloropropane	50.0	42.5		ug/L		85	74 - 126
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	42.3		ug/L		85	72 - 139
1,2,4-Trimethylbenzene	50.0	53.5		ug/L		107	72 - 129
1,3,5-Trimethylbenzene	50.0	48.3		ug/L		97	72 - 130
Vinyl chloride	50.0	47.8		ug/L		96	58 - 141

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

Lab Sample ID: LCS 680-273341/4
Matrix: Water
Analysis Batch: 273341

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	150	157		ug/L		105	80 - 124
Cyclohexane	50.0	51.1		ug/L		102	68 - 137
Methyl acetate	50.0	41.0		ug/L		82	26 - 182
Methylcyclohexane	50.0	49.6		ug/L		99	72 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*70 - 130*
Dibromofluoromethane	*105*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 680-273341/5
Matrix: Water
Analysis Batch: 273341

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	81.8		ug/L		82	39 - 162	5	50
Benzene	50.0	48.1		ug/L		96	74 - 123	1	30
Bromobenzene	50.0	49.7		ug/L		99	79 - 125	3	30
Bromochloromethane	50.0	49.5		ug/L		99	60 - 136	5	30
Bromodichloromethane	50.0	48.1		ug/L		96	72 - 129	4	30
Bromoform	50.0	37.4		ug/L		75	60 - 134	6	30
Bromomethane	50.0	42.8	*	ug/L		86	10 - 171	54	50
2-Butanone	100	99.4		ug/L		99	55 - 142	4	30
n-Butylbenzene	50.0	43.8		ug/L		88	72 - 128	8	30
sec-Butylbenzene	50.0	45.9		ug/L		92	71 - 130	6	30
tert-Butylbenzene	50.0	46.1		ug/L		92	72 - 130	4	30
Carbon disulfide	50.0	46.6		ug/L		93	63 - 142	7	30
Carbon tetrachloride	50.0	41.3		ug/L		83	70 - 131	8	30
Chlorobenzene	50.0	49.0		ug/L		98	79 - 120	3	30
Chloroethane	50.0	42.1		ug/L		84	47 - 148	2	40
Chloroform	50.0	49.3		ug/L		99	76 - 128	3	30
Chloromethane	50.0	42.7		ug/L		85	47 - 151	14	30
2-Chlorotoluene	50.0	50.9		ug/L		102	78 - 126	3	30
4-Chlorotoluene	50.0	51.5		ug/L		103	79 - 124	4	30
Dibromochloromethane	50.0	39.6		ug/L		79	63 - 134	5	50
1,2-Dibromo-3-Chloropropane	50.0	39.1		ug/L		78	57 - 126	12	50
1,2-Dibromoethane	50.0	50.5		ug/L		101	75 - 127	2	30
Dibromomethane	50.0	48.4		ug/L		97	75 - 122	4	30
1,2-Dichlorobenzene	50.0	49.9		ug/L		100	77 - 124	6	30
1,3-Dichlorobenzene	50.0	49.3		ug/L		99	79 - 123	6	30
1,4-Dichlorobenzene	50.0	49.4		ug/L		99	76 - 124	5	30
Dichlorodifluoromethane	50.0	40.2		ug/L		80	41 - 165	14	50
1,1-Dichloroethane	50.0	45.9		ug/L		92	69 - 132	4	30
1,2-Dichloroethane	50.0	43.5		ug/L		87	75 - 120	3	30
cis-1,2-Dichloroethene	50.0	49.2		ug/L		98	78 - 127	4	30
trans-1,2-Dichloroethene	50.0	49.9		ug/L		100	78 - 130	4	30
1,1-Dichloroethene	50.0	41.5		ug/L		83	73 - 134	8	30
1,2-Dichloropropane	50.0	43.1		ug/L		86	71 - 126	1	30

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

Lab Sample ID: LCSD 680-273341/5
Matrix: Water
Analysis Batch: 273341

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichloropropane			50.0	42.9		ug/L		86	73 - 125	3	30
2,2-Dichloropropane			50.0	41.0		ug/L		82	72 - 147	7	30
1,1-Dichloropropene			50.0	40.0		ug/L		80	74 - 130	4	30
cis-1,3-Dichloropropene			50.0	45.4		ug/L		91	73 - 128	1	30
trans-1,3-Dichloropropene			50.0	38.4		ug/L		77	72 - 127	3	50
Ethylbenzene			50.0	49.2		ug/L		98	78 - 125	5	30
Hexachlorobutadiene			50.0	49.9		ug/L		100	62 - 145	10	30
2-Hexanone			100	94.5		ug/L		94	52 - 149	3	30
Isopropylbenzene			50.0	48.9		ug/L		98	72 - 129	4	30
p-Isopropyltoluene			50.0	44.6		ug/L		89	69 - 129	7	50
Methylene Chloride			50.0	50.1		ug/L		100	79 - 124	2	30
4-Methyl-2-pentanone			100	95.6		ug/L		96	51 - 143	1	30
Methyl tert-butyl ether			100	97.0		ug/L		97	76 - 126	2	30
N-Propylbenzene			50.0	46.4		ug/L		93	74 - 130	4	30
Styrene			50.0	46.0		ug/L		92	75 - 129	3	30
1,1,1,2-Tetrachloroethane			50.0	42.0		ug/L		84	68 - 132	4	30
1,1,2,2-Tetrachloroethane			50.0	45.9		ug/L		92	71 - 127	4	30
Tetrachloroethene			50.0	42.8		ug/L		86	77 - 128	6	30
Toluene			50.0	50.5		ug/L		101	77 - 125	3	30
1,2,3-Trichlorobenzene			50.0	49.7		ug/L		99	63 - 136	10	30
1,2,4-Trichlorobenzene			50.0	50.1		ug/L		100	67 - 134	10	30
1,1,1-Trichloroethane			50.0	42.9		ug/L		86	76 - 126	5	30
1,1,2-Trichloroethane			50.0	51.3		ug/L		103	69 - 127	2	30
Trichloroethene			50.0	47.4		ug/L		95	80 - 120	2	30
Trichlorofluoromethane			50.0	39.1		ug/L		78	66 - 144	12	30
1,2,3-Trichloropropane			50.0	41.3		ug/L		83	74 - 126	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	37.8		ug/L		76	72 - 139	11	30
1,2,4-Trimethylbenzene			50.0	50.5		ug/L		101	72 - 129	6	50
1,3,5-Trimethylbenzene			50.0	45.9		ug/L		92	72 - 130	5	50
Vinyl chloride			50.0	41.7		ug/L		83	58 - 141	14	30
Xylenes, Total			150	151		ug/L		101	80 - 124	4	30
Cyclohexane			50.0	47.1		ug/L		94	68 - 137	8	30
Methyl acetate			50.0	39.5		ug/L		79	26 - 182	4	30
Methylcyclohexane			50.0	45.9		ug/L		92	72 - 133	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*70 - 130*
Dibromofluoromethane	*102*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-183714/1-A
Matrix: Water
Analysis Batch: 183989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183714

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.0	U	1.0	0.36	ug/L		04/22/13 07:31	04/24/13 13:45	1
Acenaphthylene	1.0	U	1.0	0.32	ug/L		04/22/13 07:31	04/24/13 13:45	1
Acetophenone	5.0	U	5.0	0.81	ug/L		04/22/13 07:31	04/24/13 13:45	1
2-Acetylaminofluorene	5.0	U	5.0	0.98	ug/L		04/22/13 07:31	04/24/13 13:45	1
alpha,alpha-Dimethyl phenethylamine	40	U	40	8.6	ug/L		04/22/13 07:31	04/24/13 13:45	1
4-Aminobiphenyl	10	U	10	1.3	ug/L		04/22/13 07:31	04/24/13 13:45	1
Aniline	20	U	20	3.5	ug/L		04/22/13 07:31	04/24/13 13:45	1
Anthracene	1.0	U	1.0	0.32	ug/L		04/22/13 07:31	04/24/13 13:45	1
Aramite	5.0	U	5.0	1.3	ug/L		04/22/13 07:31	04/24/13 13:45	1
Benzenethiol	20	U	20	10	ug/L		04/22/13 07:31	04/24/13 13:45	1
Benzidine	40	U	40	20	ug/L		04/22/13 07:31	04/24/13 13:45	1
Benzo[a]anthracene	0.20	U	0.20	0.044	ug/L		04/22/13 07:31	04/24/13 13:45	1
Benzo[a]pyrene	0.20	U	0.20	0.056	ug/L		04/22/13 07:31	04/24/13 13:45	1
Benzo[b]fluoranthene	0.20	U	0.20	0.058	ug/L		04/22/13 07:31	04/24/13 13:45	1
Benzo[g,h,i]perylene	1.0	U	1.0	0.42	ug/L		04/22/13 07:31	04/24/13 13:45	1
Benzoic acid	20	U ^	20	4.6	ug/L		04/22/13 07:31	04/24/13 13:45	1
Benzo[k]fluoranthene	0.20	U	0.20	0.074	ug/L		04/22/13 07:31	04/24/13 13:45	1
Benzyl alcohol	20	U	20	3.1	ug/L		04/22/13 07:31	04/24/13 13:45	1
Bis(2-chloroethoxy)methane	2.0	U	2.0	0.30	ug/L		04/22/13 07:31	04/24/13 13:45	1
Bis(2-chloroethyl)ether	2.0	U	2.0	0.35	ug/L		04/22/13 07:31	04/24/13 13:45	1
Bis(2-ethylhexyl) phthalate	10	U	10	2.4	ug/L		04/22/13 07:31	04/24/13 13:45	1
4-Bromophenyl phenyl ether	5.0	U	5.0	0.91	ug/L		04/22/13 07:31	04/24/13 13:45	1
Butyl benzyl phthalate	2.0	U	2.0	0.27	ug/L		04/22/13 07:31	04/24/13 13:45	1
Carbofuran	10	U	10	1.4	ug/L		04/22/13 07:31	04/24/13 13:45	1
4-Chloroaniline	10	U ^	10	2.1	ug/L		04/22/13 07:31	04/24/13 13:45	1
4-Chloro-3-methylphenol	10	U	10	2.2	ug/L		04/22/13 07:31	04/24/13 13:45	1
1-Chloronaphthalene	2.0	U	2.0	2.0	ug/L		04/22/13 07:31	04/24/13 13:45	1
2-Chloronaphthalene	2.0	U	2.0	0.34	ug/L		04/22/13 07:31	04/24/13 13:45	1
2-Chlorophenol	5.0	U	5.0	0.80	ug/L		04/22/13 07:31	04/24/13 13:45	1
4-Chlorophenyl phenyl ether	5.0	U	5.0	0.81	ug/L		04/22/13 07:31	04/24/13 13:45	1
Chrysene	0.50	U	0.50	0.14	ug/L		04/22/13 07:31	04/24/13 13:45	1
Diallate	5.0	U	5.0	2.2	ug/L		04/22/13 07:31	04/24/13 13:45	1
Dibenz(a,h)anthracene	0.30	U	0.30	0.064	ug/L		04/22/13 07:31	04/24/13 13:45	1
Dibenz[a,j]acridine	5.0	U	5.0	1.3	ug/L		04/22/13 07:31	04/24/13 13:45	1
Dibenzofuran	2.0	U	2.0	0.35	ug/L		04/22/13 07:31	04/24/13 13:45	1
1,2-Dichlorobenzene	2.0	U	2.0	0.29	ug/L		04/22/13 07:31	04/24/13 13:45	1
1,3-Dichlorobenzene	2.0	U	2.0	0.25	ug/L		04/22/13 07:31	04/24/13 13:45	1
1,4-Dichlorobenzene	2.0	U	2.0	0.27	ug/L		04/22/13 07:31	04/24/13 13:45	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.94	ug/L		04/22/13 07:31	04/24/13 13:45	1
2,4-Dichlorophenol	10	U	10	2.3	ug/L		04/22/13 07:31	04/24/13 13:45	1
2,6-Dichlorophenol	5.0	U	5.0	0.85	ug/L		04/22/13 07:31	04/24/13 13:45	1
Diethyl phthalate	2.0	U	2.0	0.44	ug/L		04/22/13 07:31	04/24/13 13:45	1
Diethylstilbestrol	20	U	20	2.1	ug/L		04/22/13 07:31	04/24/13 13:45	1
Dimethoate	10	U	10	1.5	ug/L		04/22/13 07:31	04/24/13 13:45	1
7,12-Dimethylbenz(a)anthracene	5.0	U	5.0	2.2	ug/L		04/22/13 07:31	04/24/13 13:45	1
3,3'-Dimethylbenzidine	20	U	20	9.1	ug/L		04/22/13 07:31	04/24/13 13:45	1
2,4-Dimethylphenol	10	U	10	3.3	ug/L		04/22/13 07:31	04/24/13 13:45	1
Dimethyl phthalate	2.0	U	2.0	0.38	ug/L		04/22/13 07:31	04/24/13 13:45	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-183714/1-A
Matrix: Water
Analysis Batch: 183989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183714

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	5.0	U	5.0	0.80	ug/L		04/22/13 07:31	04/24/13 13:45	1
1,4-Dinitrobenzene	5.0	U	5.0	2.0	ug/L		04/22/13 07:31	04/24/13 13:45	1
4,6-Dinitro-2-methylphenol	20	U	20	4.9	ug/L		04/22/13 07:31	04/24/13 13:45	1
2,4-Dinitrophenol	20	U	20	7.4	ug/L		04/22/13 07:31	04/24/13 13:45	1
2,4-Dinitrotoluene	1.0	U	1.0	0.30	ug/L		04/22/13 07:31	04/24/13 13:45	1
2,6-Dinitrotoluene	0.50	U	0.50	0.12	ug/L		04/22/13 07:31	04/24/13 13:45	1
Di-n-octyl phthalate	10	U	10	2.5	ug/L		04/22/13 07:31	04/24/13 13:45	1
Dinoseb	10	U	10	3.2	ug/L		04/22/13 07:31	04/24/13 13:45	1
1,4-Dioxane	20	U	20	6.9	ug/L		04/22/13 07:31	04/24/13 13:45	1
Diphenylamine	5.0	U	5.0	1.7	ug/L		04/22/13 07:31	04/24/13 13:45	1
1,2-Diphenylhydrazine	5.0	U	5.0	0.70	ug/L		04/22/13 07:31	04/24/13 13:45	1
Disulfoton	10	U	10	1.4	ug/L		04/22/13 07:31	04/24/13 13:45	1
Ethyl 4,4'-Dichlorobenzilate	5.0	U	5.0	1.4	ug/L		04/22/13 07:31	04/24/13 13:45	1
Ethyl methanesulfonate	5.0	U	5.0	2.0	ug/L		04/22/13 07:31	04/24/13 13:45	1
Ethyl Parathion	10	U	10	1.7	ug/L		04/22/13 07:31	04/24/13 13:45	1
Famphur	10	U	10	1.5	ug/L		04/22/13 07:31	04/24/13 13:45	1
Fluoranthene	1.0	U	1.0	0.32	ug/L		04/22/13 07:31	04/24/13 13:45	1
Fluorene	1.0	U	1.0	0.38	ug/L		04/22/13 07:31	04/24/13 13:45	1
Hexachlorobenzene	0.50	U	0.50	0.14	ug/L		04/22/13 07:31	04/24/13 13:45	1
Hexachlorobutadiene	5.0	U	5.0	1.1	ug/L		04/22/13 07:31	04/24/13 13:45	1
Hexachlorocyclopentadiene	20	U	20	3.4	ug/L		04/22/13 07:31	04/24/13 13:45	1
Hexachloroethane	5.0	U	5.0	0.97	ug/L		04/22/13 07:31	04/24/13 13:45	1
Hexachlorophene	100	U	100	52	ug/L		04/22/13 07:31	04/24/13 13:45	1
Hexachloropropene	20	U	20	3.0	ug/L		04/22/13 07:31	04/24/13 13:45	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.084	ug/L		04/22/13 07:31	04/24/13 13:45	1
Isophorone	2.0	U	2.0	0.29	ug/L		04/22/13 07:31	04/24/13 13:45	1
Isosafrole	5.0	U	5.0	1.8	ug/L		04/22/13 07:31	04/24/13 13:45	1
Malathion	10	U	10	1.7	ug/L		04/22/13 07:31	04/24/13 13:45	1
m-Dinitrobenzene	5.0	U	5.0	1.9	ug/L		04/22/13 07:31	04/24/13 13:45	1
Methapyrilene	40	U	40	6.5	ug/L		04/22/13 07:31	04/24/13 13:45	1
3-Methylcholanthrene	5.0	U	5.0	0.98	ug/L		04/22/13 07:31	04/24/13 13:45	1
Methyl methanesulfonate	5.0	U	5.0	1.8	ug/L		04/22/13 07:31	04/24/13 13:45	1
2-Methylnaphthalene	0.50	U	0.50	0.13	ug/L		04/22/13 07:31	04/24/13 13:45	1
Methyl parathion	10	U	10	1.6	ug/L		04/22/13 07:31	04/24/13 13:45	1
2-Methylphenol	2.0	U ^	2.0	0.31	ug/L		04/22/13 07:31	04/24/13 13:45	1
3 & 4 Methylphenol	2.0	U ^	2.0	0.44	ug/L		04/22/13 07:31	04/24/13 13:45	1
Naphthalene	1.0	U	1.0	0.30	ug/L		04/22/13 07:31	04/24/13 13:45	1
1,4-Naphthoquinone	10	U	10	1.7	ug/L		04/22/13 07:31	04/24/13 13:45	1
1-Naphthylamine	10	U	10	1.4	ug/L		04/22/13 07:31	04/24/13 13:45	1
2-Naphthylamine	10	U	10	1.4	ug/L		04/22/13 07:31	04/24/13 13:45	1
2-Nitroaniline	5.0	U	5.0	1.1	ug/L		04/22/13 07:31	04/24/13 13:45	1
3-Nitroaniline	10	U	10	2.3	ug/L		04/22/13 07:31	04/24/13 13:45	1
4-Nitroaniline	10	U	10	3.9	ug/L		04/22/13 07:31	04/24/13 13:45	1
Nitrobenzene	1.0	U	1.0	0.45	ug/L		04/22/13 07:31	04/24/13 13:45	1
5-Nitro-o-toluidine	5.0	U	5.0	1.6	ug/L		04/22/13 07:31	04/24/13 13:45	1
2-Nitrophenol	10	U	10	2.1	ug/L		04/22/13 07:31	04/24/13 13:45	1
4-Nitrophenol	20	U	20	2.3	ug/L		04/22/13 07:31	04/24/13 13:45	1
4-Nitroquinoline-1-oxide	20	U	20	12	ug/L		04/22/13 07:31	04/24/13 13:45	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-183714/1-A
Matrix: Water
Analysis Batch: 183989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183714

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiethylamine	5.0	U	5.0	1.1	ug/L		04/22/13 07:31	04/24/13 13:45	1
N-Nitrosodimethylamine	10	U	10	1.4	ug/L		04/22/13 07:31	04/24/13 13:45	1
N-Nitrosodi-n-butylamine	5.0	U	5.0	0.98	ug/L		04/22/13 07:31	04/24/13 13:45	1
N-Nitrosodi-n-propylamine	0.50	U ^	0.50	0.14	ug/L		04/22/13 07:31	04/24/13 13:45	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.34	ug/L		04/22/13 07:31	04/24/13 13:45	1
N-Nitrosomethylethylamine	5.0	U	5.0	1.1	ug/L		04/22/13 07:31	04/24/13 13:45	1
N-Nitrosomorpholine	5.0	U	5.0	2.4	ug/L		04/22/13 07:31	04/24/13 13:45	1
N-Nitrosopiperidine	5.0	U	5.0	0.81	ug/L		04/22/13 07:31	04/24/13 13:45	1
N-Nitrosopyrrolidine	5.0	U	5.0	0.79	ug/L		04/22/13 07:31	04/24/13 13:45	1
o,o',o''-Triethylphosphorothioate	10	U	10	1.5	ug/L		04/22/13 07:31	04/24/13 13:45	1
o-Toluidine	5.0	U	5.0	1.6	ug/L		04/22/13 07:31	04/24/13 13:45	1
2,2'-oxybis[1-chloropropane]	2.0	U	2.0	0.30	ug/L		04/22/13 07:31	04/24/13 13:45	1
p-Dimethylamino azobenzene	5.0	U	5.0	1.3	ug/L		04/22/13 07:31	04/24/13 13:45	1
Pentachlorobenzene	5.0	U	5.0	1.1	ug/L		04/22/13 07:31	04/24/13 13:45	1
Pentachloronitrobenzene	5.0	U	5.0	1.7	ug/L		04/22/13 07:31	04/24/13 13:45	1
Pentachlorophenol	20	U	20	5.6	ug/L		04/22/13 07:31	04/24/13 13:45	1
Phenacetin	5.0	U	5.0	1.8	ug/L		04/22/13 07:31	04/24/13 13:45	1
Phenanthrene	1.0	U	1.0	0.35	ug/L		04/22/13 07:31	04/24/13 13:45	1
Phenol	5.0	U ^	5.0	0.36	ug/L		04/22/13 07:31	04/24/13 13:45	1
Phorate	10	U	10	1.5	ug/L		04/22/13 07:31	04/24/13 13:45	1
2-Picoline	10	U	10	1.3	ug/L		04/22/13 07:31	04/24/13 13:45	1
p-Phenylene diamine	40	U	40	20	ug/L		04/22/13 07:31	04/24/13 13:45	1
Pronamide	10	U	10	1.1	ug/L		04/22/13 07:31	04/24/13 13:45	1
Pyrene	1.0	U	1.0	0.48	ug/L		04/22/13 07:31	04/24/13 13:45	1
Pyridine	20	U	20	7.2	ug/L		04/22/13 07:31	04/24/13 13:45	1
Safrole	5.0	U	5.0	1.9	ug/L		04/22/13 07:31	04/24/13 13:45	1
Sulfotepp	10	U	10	1.1	ug/L		04/22/13 07:31	04/24/13 13:45	1
sym-Trinitrobenzene	5.0	U	5.0	2.3	ug/L		04/22/13 07:31	04/24/13 13:45	1
1,2,4,5-Tetrachlorobenzene	5.0	U	5.0	1.2	ug/L		04/22/13 07:31	04/24/13 13:45	1
2,3,4,6-Tetrachlorophenol	5.0	U	5.0	1.5	ug/L		04/22/13 07:31	04/24/13 13:45	1
Thionazin	10	U	10	1.8	ug/L		04/22/13 07:31	04/24/13 13:45	1
1,2,4-Trichlorobenzene	2.0	U	2.0	0.30	ug/L		04/22/13 07:31	04/24/13 13:45	1
2,4,5-Trichlorophenol	10	U	10	2.3	ug/L		04/22/13 07:31	04/24/13 13:45	1
2,4,6-Trichlorophenol	5.0	U	5.0	1.1	ug/L		04/22/13 07:31	04/24/13 13:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*48 - 110*	*04/22/13 07:31*	*04/24/13 13:45*	*1*
2-Fluorophenol	*49*		*20 - 100*	*04/22/13 07:31*	*04/24/13 13:45*	*1*
Nitrobenzene-d5	*82*		*41 - 110*	*04/22/13 07:31*	*04/24/13 13:45*	*1*
Phenol-d5	*35*		*20 - 100*	*04/22/13 07:31*	*04/24/13 13:45*	*1*
Terphenyl-d14	*113*		*44 - 132*	*04/22/13 07:31*	*04/24/13 13:45*	*1*
2,4,6-Tribromophenol	*89*		*50 - 129*	*04/22/13 07:31*	*04/24/13 13:45*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-183714/2-A
Matrix: Water
Analysis Batch: 183989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183714

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	50.0	40.8		ug/L		82	53 - 110
Acenaphthylene	50.0	39.3		ug/L		79	56 - 110
Acetophenone	50.0	36.9		ug/L		74	48 - 110
Aniline	50.0	31.0		ug/L		62	29 - 100
Anthracene	50.0	44.2		ug/L		88	58 - 110
Benzidine	50.0	40	U	ug/L		21	10 - 100
Benzo[a]anthracene	50.0	39.9		ug/L		80	62 - 110
Benzo[a]pyrene	50.0	42.0		ug/L		84	63 - 110
Benzo[b]fluoranthene	50.0	37.7		ug/L		75	60 - 111
Benzo[g,h,i]perylene	50.0	53.3		ug/L		107	56 - 123
Benzoic acid	50.0	18.4	J ^	ug/L		37	10 - 100
Benzo[k]fluoranthene	50.0	39.9		ug/L		80	59 - 116
Benzyl alcohol	50.0	32.4		ug/L		65	42 - 110
Bis(2-chloroethoxy)methane	50.0	39.1		ug/L		78	56 - 110
Bis(2-chloroethyl)ether	50.0	40.3		ug/L		81	49 - 110
Bis(2-ethylhexyl) phthalate	50.0	42.0		ug/L		84	62 - 122
4-Bromophenyl phenyl ether	50.0	46.7		ug/L		93	59 - 110
Butyl benzyl phthalate	50.0	43.1		ug/L		86	64 - 126
4-Chloroaniline	50.0	40.5	^	ug/L		81	47 - 110
4-Chloro-3-methylphenol	50.0	38.2		ug/L		76	52 - 111
2-Chloronaphthalene	50.0	40.3		ug/L		81	48 - 110
2-Chlorophenol	50.0	36.6		ug/L		73	50 - 110
4-Chlorophenyl phenyl ether	50.0	45.0		ug/L		90	59 - 110
Chrysene	50.0	39.9		ug/L		80	62 - 111
Dibenz(a,h)anthracene	50.0	50.1		ug/L		100	59 - 120
Dibenzofuran	50.0	41.1		ug/L		82	56 - 110
1,2-Dichlorobenzene	50.0	33.4		ug/L		67	34 - 100
1,3-Dichlorobenzene	50.0	31.9		ug/L		64	34 - 100
1,4-Dichlorobenzene	50.0	33.9		ug/L		68	33 - 100
3,3'-Dichlorobenzidine	50.0	44.4		ug/L		89	56 - 111
2,4-Dichlorophenol	50.0	41.3		ug/L		83	58 - 110
2,6-Dichlorophenol	50.0	39.1		ug/L		78	57 - 110
Diethyl phthalate	50.0	44.0		ug/L		88	63 - 110
3,3'-Dimethylbenzidine	50.0	22.5		ug/L		45	10 - 110
2,4-Dimethylphenol	50.0	37.3		ug/L		75	48 - 110
Dimethyl phthalate	50.0	42.5		ug/L		85	65 - 110
Di-n-butyl phthalate	50.0	43.0		ug/L		86	64 - 116
4,6-Dinitro-2-methylphenol	50.0	49.4		ug/L		99	58 - 121
2,4-Dinitrophenol	50.0	49.3		ug/L		99	25 - 148
2,4-Dinitrotoluene	50.0	47.5		ug/L		95	62 - 119
2,6-Dinitrotoluene	50.0	46.0		ug/L		92	63 - 110
Di-n-octyl phthalate	50.0	41.1		ug/L		82	59 - 131
Dinoseb	50.0	50.1		ug/L		100	40 - 110
1,4-Dioxane	50.0	29.0		ug/L		58	10 - 100
1,2-Diphenylhydrazine	50.0	43.3		ug/L		87	58 - 110
Fluoranthene	50.0	41.9		ug/L		84	62 - 112
Fluorene	50.0	41.3		ug/L		83	53 - 110
Hexachlorobenzene	50.0	42.5		ug/L		85	60 - 110

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-183714/2-A
Matrix: Water
Analysis Batch: 183989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183714

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	50.0	35.5		ug/L		71	28 - 110
Hexachlorocyclopentadiene	50.0	39.5		ug/L		79	15 - 110
Hexachloroethane	50.0	33.3		ug/L		67	29 - 100
Hexachloropropene	50.0	37.6		ug/L		75	23 - 110
Indeno[1,2,3-cd]pyrene	50.0	51.9		ug/L		104	61 - 117
Isophorone	50.0	37.4		ug/L		75	51 - 110
2-Methylnaphthalene	50.0	35.7		ug/L		71	39 - 110
2-Methylphenol	50.0	32.7		ug/L		65	42 - 100
3 & 4 Methylphenol	50.0	30.8	^	ug/L		62	38 - 110
Naphthalene	50.0	35.7		ug/L		71	39 - 110
2-Nitroaniline	50.0	53.0		ug/L		106	62 - 121
3-Nitroaniline	50.0	45.1		ug/L		90	55 - 113
4-Nitroaniline	50.0	48.0		ug/L		96	52 - 125
Nitrobenzene	50.0	39.7		ug/L		79	52 - 110
2-Nitrophenol	50.0	44.1		ug/L		88	56 - 110
4-Nitrophenol	50.0	19.5	J	ug/L		39	20 - 100
N-Nitrosodiethylamine	50.0	39.5		ug/L		79	53 - 110
N-Nitrosodimethylamine	50.0	27.9		ug/L		56	27 - 100
N-Nitrosodi-n-butylamine	50.0	38.3		ug/L		77	51 - 116
N-Nitrosodi-n-propylamine	50.0	33.5		ug/L		67	43 - 110
N-Nitrosodiphenylamine	50.0	44.7		ug/L		89	64 - 110
N-Nitrosomethylethylamine	50.0	38.0		ug/L		76	42 - 110
N-Nitrosopiperidine	50.0	39.6		ug/L		79	59 - 110
N-Nitrosopyrrolidine	50.0	35.6		ug/L		71	37 - 116
2,2'-oxybis[1-chloropropane]	50.0	33.6		ug/L		67	32 - 110
Pentachlorobenzene	50.0	43.6		ug/L		87	55 - 110
Pentachlorophenol	50.0	44.5		ug/L		89	42 - 127
Phenanthrene	50.0	41.7		ug/L		83	59 - 110
Phenol	50.0	17.6	^	ug/L		35	20 - 100
Pyrene	50.0	40.7		ug/L		81	58 - 115
Pyridine	50.0	27.5		ug/L		55	10 - 100
1,2,4,5-Tetrachlorobenzene	50.0	43.8		ug/L		88	42 - 110
2,3,4,6-Tetrachlorophenol	50.0	46.3		ug/L		93	60 - 112
1,2,4-Trichlorobenzene	50.0	35.4		ug/L		71	34 - 110
2,4,5-Trichlorophenol	50.0	44.6		ug/L		89	63 - 110
2,4,6-Trichlorophenol	50.0	42.9		ug/L		86	63 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*92*		*48 - 110*
2-Fluorophenol	*48*		*20 - 100*
Nitrobenzene-d5	*96*		*41 - 110*
Phenol-d5	*37*		*20 - 100*
Terphenyl-d14	*94*		*44 - 132*
2,4,6-Tribromophenol	*114*		*50 - 129*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-183714/3-A
Matrix: Water
Analysis Batch: 183989

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 183714

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	50.0	40.9		ug/L		82	53 - 110	0	20
Acenaphthylene	50.0	40.0		ug/L		80	56 - 110	2	20
Acetophenone	50.0	36.9		ug/L		74	48 - 110	0	20
Aniline	50.0	30.9		ug/L		62	29 - 100	0	20
Anthracene	50.0	43.6		ug/L		87	58 - 110	1	20
Benzidine	50.0	40	U	ug/L		19	10 - 100	10	20
Benzo[a]anthracene	50.0	39.8		ug/L		80	62 - 110	0	20
Benzo[a]pyrene	50.0	42.7		ug/L		85	63 - 110	2	20
Benzo[b]fluoranthene	50.0	36.7		ug/L		73	60 - 111	3	20
Benzo[g,h,i]perylene	50.0	53.4		ug/L		107	56 - 123	0	20
Benzoic acid	50.0	18.7	J ^	ug/L		37	10 - 100	2	20
Benzo[k]fluoranthene	50.0	42.3		ug/L		85	59 - 116	6	20
Benzyl alcohol	50.0	32.5		ug/L		65	42 - 110	0	20
Bis(2-chloroethoxy)methane	50.0	40.7		ug/L		81	56 - 110	4	20
Bis(2-chloroethyl)ether	50.0	39.3		ug/L		79	49 - 110	2	20
Bis(2-ethylhexyl) phthalate	50.0	42.4		ug/L		85	62 - 122	1	20
4-Bromophenyl phenyl ether	50.0	47.1		ug/L		94	59 - 110	1	20
Butyl benzyl phthalate	50.0	42.9		ug/L		86	64 - 126	0	20
4-Chloroaniline	50.0	41.9	^	ug/L		84	47 - 110	4	20
4-Chloro-3-methylphenol	50.0	41.7		ug/L		83	52 - 111	9	20
2-Chloronaphthalene	50.0	40.4		ug/L		81	48 - 110	0	20
2-Chlorophenol	50.0	38.3		ug/L		77	50 - 110	5	20
4-Chlorophenyl phenyl ether	50.0	45.6		ug/L		91	59 - 110	1	20
Chrysene	50.0	40.9		ug/L		82	62 - 111	2	20
Dibenz(a,h)anthracene	50.0	50.5		ug/L		101	59 - 120	1	20
Dibenzofuran	50.0	41.3		ug/L		83	56 - 110	1	20
1,2-Dichlorobenzene	50.0	36.2		ug/L		72	34 - 100	8	20
1,3-Dichlorobenzene	50.0	35.0		ug/L		70	34 - 100	9	20
1,4-Dichlorobenzene	50.0	36.6		ug/L		73	33 - 100	8	20
3,3'-Dichlorobenzidine	50.0	44.5		ug/L		89	56 - 111	0	20
2,4-Dichlorophenol	50.0	44.2		ug/L		88	58 - 110	7	20
2,6-Dichlorophenol	50.0	42.5		ug/L		85	57 - 110	8	20
Diethyl phthalate	50.0	43.7		ug/L		87	63 - 110	1	20
3,3'-Dimethylbenzidine	50.0	21.2		ug/L		42	10 - 110	6	20
2,4-Dimethylphenol	50.0	40.3		ug/L		81	48 - 110	8	20
Dimethyl phthalate	50.0	42.3		ug/L		85	65 - 110	0	20
Di-n-butyl phthalate	50.0	43.4		ug/L		87	64 - 116	1	20
4,6-Dinitro-2-methylphenol	50.0	48.7		ug/L		97	58 - 121	1	20
2,4-Dinitrophenol	50.0	47.5		ug/L		95	25 - 148	4	20
2,4-Dinitrotoluene	50.0	47.0		ug/L		94	62 - 119	1	20
2,6-Dinitrotoluene	50.0	46.0		ug/L		92	63 - 110	0	20
Di-n-octyl phthalate	50.0	42.6		ug/L		85	59 - 131	4	20
Dinoseb	50.0	49.7		ug/L		99	40 - 110	1	20
1,4-Dioxane	50.0	32.3		ug/L		65	10 - 100	11	20
1,2-Diphenylhydrazine	50.0	43.0		ug/L		86	58 - 110	1	20
Fluoranthene	50.0	41.7		ug/L		83	62 - 112	1	20
Fluorene	50.0	41.6		ug/L		83	53 - 110	1	20
Hexachlorobenzene	50.0	42.7		ug/L		85	60 - 110	1	20

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-183714/3-A
Matrix: Water
Analysis Batch: 183989

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 183714

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobutadiene			50.0	39.4		ug/L		79	28 - 110	11	20
Hexachlorocyclopentadiene			50.0	40.1		ug/L		80	15 - 110	2	20
Hexachloroethane			50.0	36.4		ug/L		73	29 - 100	9	20
Hexachloropropene			50.0	41.4		ug/L		83	23 - 110	10	20
Indeno[1,2,3-cd]pyrene			50.0	52.2		ug/L		104	61 - 117	1	20
Isophorone			50.0	40.2		ug/L		80	51 - 110	7	20
2-Methylnaphthalene			50.0	39.6		ug/L		79	39 - 110	10	20
2-Methylphenol			50.0	32.6		ug/L		65	42 - 100	0	20
3 & 4 Methylphenol			50.0	31.4	^	ug/L		63	38 - 110	2	20
Naphthalene			50.0	38.4		ug/L		77	39 - 110	7	20
2-Nitroaniline			50.0	52.4		ug/L		105	62 - 121	1	20
3-Nitroaniline			50.0	44.4		ug/L		89	55 - 113	2	20
4-Nitroaniline			50.0	45.5		ug/L		91	52 - 125	5	20
Nitrobenzene			50.0	41.7		ug/L		83	52 - 110	5	20
2-Nitrophenol			50.0	45.2		ug/L		90	56 - 110	2	20
4-Nitrophenol			50.0	19.5	J	ug/L		39	20 - 100	0	20
N-Nitrosodiethylamine			50.0	40.2		ug/L		80	53 - 110	2	20
N-Nitrosodimethylamine			50.0	29.7		ug/L		59	27 - 100	6	20
N-Nitrosodi-n-butylamine			50.0	42.0		ug/L		84	51 - 116	9	20
N-Nitrosodi-n-propylamine			50.0	34.0		ug/L		68	43 - 110	1	20
N-Nitrosodiphenylamine			50.0	45.2		ug/L		90	64 - 110	1	20
N-Nitrosomethylethylamine			50.0	37.4		ug/L		75	42 - 110	1	20
N-Nitrosopiperidine			50.0	42.4		ug/L		85	59 - 110	7	20
N-Nitrosopyrrolidine			50.0	36.9		ug/L		74	37 - 116	4	20
2,2'-oxybis[1-chloropropane]			50.0	35.1		ug/L		70	32 - 110	4	20
Pentachlorobenzene			50.0	44.2		ug/L		88	55 - 110	1	20
Pentachlorophenol			50.0	43.7		ug/L		87	42 - 127	2	20
Phenanthrene			50.0	42.5		ug/L		85	59 - 110	2	20
Phenol			50.0	17.1	^	ug/L		34	20 - 100	3	20
Pyrene			50.0	41.3		ug/L		83	58 - 115	1	20
Pyridine			50.0	24.5		ug/L		49	10 - 100	11	20
1,2,4,5-Tetrachlorobenzene			50.0	44.7		ug/L		89	42 - 110	2	20
2,3,4,6-Tetrachlorophenol			50.0	45.7		ug/L		91	60 - 112	1	20
1,2,4-Trichlorobenzene			50.0	38.9		ug/L		78	34 - 110	9	20
2,4,5-Trichlorophenol			50.0	44.8		ug/L		90	63 - 110	0	20
2,4,6-Trichlorophenol			50.0	42.8		ug/L		86	63 - 110	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*90*		*48 - 110*
2-Fluorophenol	*54*		*20 - 100*
Nitrobenzene-d5	*102*		*41 - 110*
Phenol-d5	*36*		*20 - 100*
Terphenyl-d14	*95*		*44 - 132*
2,4,6-Tribromophenol	*112*		*50 - 129*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-183627/1-A
Matrix: Water
Analysis Batch: 183728

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183627

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0059	ug/L		04/19/13 20:58	04/22/13 17:05	1
alpha-BHC	0.050	U	0.050	0.0071	ug/L		04/19/13 20:58	04/22/13 17:05	1
beta-BHC	0.050	U	0.050	0.0077	ug/L		04/19/13 20:58	04/22/13 17:05	1
Chlordane (technical)	0.10	U	0.10	0.038	ug/L		04/19/13 20:58	04/22/13 17:05	1
4,4'-DDD	0.050	U	0.050	0.0048	ug/L		04/19/13 20:58	04/22/13 17:05	1
4,4'-DDE	0.050	U	0.050	0.0043	ug/L		04/19/13 20:58	04/22/13 17:05	1
4,4'-DDT	0.050	U	0.050	0.011	ug/L		04/19/13 20:58	04/22/13 17:05	1
delta-BHC	0.050	U	0.050	0.0030	ug/L		04/19/13 20:58	04/22/13 17:05	1
Dieldrin	0.050	U	0.050	0.0033	ug/L		04/19/13 20:58	04/22/13 17:05	1
Endosulfan I	0.050	U	0.050	0.0030	ug/L		04/19/13 20:58	04/22/13 17:05	1
Endosulfan II	0.050	U	0.050	0.0058	ug/L		04/19/13 20:58	04/22/13 17:05	1
Endosulfan sulfate	0.050	U	0.050	0.0082	ug/L		04/19/13 20:58	04/22/13 17:05	1
Endrin	0.050	U	0.050	0.0085	ug/L		04/19/13 20:58	04/22/13 17:05	1
Endrin aldehyde	0.050	U	0.050	0.0091	ug/L		04/19/13 20:58	04/22/13 17:05	1
Endrin ketone	0.050	U	0.050	0.0088	ug/L		04/19/13 20:58	04/22/13 17:05	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0031	ug/L		04/19/13 20:58	04/22/13 17:05	1
Heptachlor	0.050	U	0.050	0.0081	ug/L		04/19/13 20:58	04/22/13 17:05	1
Heptachlor epoxide	0.050	U	0.050	0.010	ug/L		04/19/13 20:58	04/22/13 17:05	1
Isodrin	0.050	U	0.050	0.015	ug/L		04/19/13 20:58	04/22/13 17:05	1
Methoxychlor	0.10	U	0.10	0.014	ug/L		04/19/13 20:58	04/22/13 17:05	1
Toxaphene	0.50	U	0.50	0.15	ug/L		04/19/13 20:58	04/22/13 17:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*108*		*30 - 131*	*04/19/13 20:58*	*04/22/13 17:05*	*1*
Tetrachloro-m-xylene	*91*		*44 - 120*	*04/19/13 20:58*	*04/22/13 17:05*	*1*

Lab Sample ID: LCS 500-183627/2-A
Matrix: Water
Analysis Batch: 183728

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183627

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.400	0.372		ug/L		93	58 - 110
alpha-BHC	0.400	0.389		ug/L		97	72 - 113
beta-BHC	0.400	0.395		ug/L		99	77 - 115
4,4'-DDD	0.400	0.432		ug/L		108	78 - 129
4,4'-DDE	0.400	0.410		ug/L		102	74 - 120
4,4'-DDT	0.400	0.370		ug/L		93	61 - 122
delta-BHC	0.400	0.395		ug/L		99	77 - 122
Dieldrin	0.400	0.423		ug/L		106	75 - 119
Endosulfan I	0.400	0.377		ug/L		94	59 - 113
Endosulfan II	0.400	0.382		ug/L		95	68 - 120
Endosulfan sulfate	0.400	0.425		ug/L		106	75 - 136
Endrin	0.400	0.368		ug/L		92	73 - 121
Endrin aldehyde	0.400	0.413		ug/L		103	76 - 129
Endrin ketone	0.400	0.446		ug/L		112	75 - 135
gamma-BHC (Lindane)	0.400	0.404		ug/L		101	72 - 118
Heptachlor	0.400	0.346		ug/L		86	60 - 110
Heptachlor epoxide	0.400	0.448		ug/L		112	80 - 119

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-183627/2-A
Matrix: Water
Analysis Batch: 183728

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183627

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methoxychlor			0.400	0.387		ug/L		97	64 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*89*		*30 - 131*
Tetrachloro-m-xylene	*86*		*44 - 120*

Lab Sample ID: LCSD 500-183627/3-A
Matrix: Water
Analysis Batch: 183728

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 183627

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			0.400	0.362		ug/L		90	58 - 110	3	20
alpha-BHC			0.400	0.391		ug/L		98	72 - 113	1	20
beta-BHC			0.400	0.402		ug/L		101	77 - 115	2	20
4,4'-DDD			0.400	0.439		ug/L		110	78 - 129	2	20
4,4'-DDE			0.400	0.415		ug/L		104	74 - 120	1	20
4,4'-DDT			0.400	0.380		ug/L		95	61 - 122	3	20
delta-BHC			0.400	0.380		ug/L		95	77 - 122	4	20
Dieldrin			0.400	0.431		ug/L		108	75 - 119	2	20
Endosulfan I			0.400	0.385		ug/L		96	59 - 113	2	20
Endosulfan II			0.400	0.387		ug/L		97	68 - 120	1	20
Endosulfan sulfate			0.400	0.431		ug/L		108	75 - 136	2	20
Endrin			0.400	0.390		ug/L		98	73 - 121	6	20
Endrin aldehyde			0.400	0.421		ug/L		105	76 - 129	2	20
Endrin ketone			0.400	0.450		ug/L		112	75 - 135	1	20
gamma-BHC (Lindane)			0.400	0.408		ug/L		102	72 - 118	1	20
Heptachlor			0.400	0.295		ug/L		74	60 - 110	16	20
Heptachlor epoxide			0.400	0.395		ug/L		99	80 - 119	13	20
Methoxychlor			0.400	0.394		ug/L		99	64 - 126	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*89*		*30 - 131*
Tetrachloro-m-xylene	*83*		*44 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-183627/1-A
Matrix: Water
Analysis Batch: 183843

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183627

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.50	U	0.50	0.16	ug/L		04/19/13 20:58	04/23/13 10:32	1
PCB-1221	0.50	U	0.50	0.24	ug/L		04/19/13 20:58	04/23/13 10:32	1
PCB-1232	0.50	U	0.50	0.086	ug/L		04/19/13 20:58	04/23/13 10:32	1
PCB-1242	0.50	U	0.50	0.12	ug/L		04/19/13 20:58	04/23/13 10:32	1
PCB-1248	0.50	U	0.50	0.10	ug/L		04/19/13 20:58	04/23/13 10:32	1
PCB-1254	0.50	U	0.50	0.10	ug/L		04/19/13 20:58	04/23/13 10:32	1

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: MB 640-101150/1-A
Matrix: Water
Analysis Batch: 101203

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diazinon	1.0	U	1.0	0.11	ug/L		04/18/13 18:17	04/22/13 11:56	1
Dichlofenthion	1.0	U	1.0	0.14	ug/L		04/18/13 18:17	04/22/13 11:56	1
Dichlorvos	2.0	U	2.0	0.26	ug/L		04/18/13 18:17	04/22/13 11:56	1
Dimethoate	2.0	U	2.0	0.32	ug/L		04/18/13 18:17	04/22/13 11:56	1
Disulfoton	2.0	U	2.0	0.12	ug/L		04/18/13 18:17	04/22/13 11:56	1
EPN	1.0	U	1.0	0.071	ug/L		04/18/13 18:17	04/22/13 11:56	1
Ethion	0.50	U	0.50	0.11	ug/L		04/18/13 18:17	04/22/13 11:56	1
Famphur	2.0	U	2.0	0.11	ug/L		04/18/13 18:17	04/22/13 11:56	1
Fensulfothion	5.0	U	5.0	0.17	ug/L		04/18/13 18:17	04/22/13 11:56	1
Fenthion	1.0	U	1.0	0.11	ug/L		04/18/13 18:17	04/22/13 11:56	1
Malathion	1.0	U	1.0	0.092	ug/L		04/18/13 18:17	04/22/13 11:56	1
Merphos	1.0	U	1.0	0.13	ug/L		04/18/13 18:17	04/22/13 11:56	1
Methyl parathion	0.50	U	0.50	0.12	ug/L		04/18/13 18:17	04/22/13 11:56	1
Mevinphos	2.0	U	2.0	0.15	ug/L		04/18/13 18:17	04/22/13 11:56	1
Ethoprop	0.50	U	0.50	0.41	ug/L		04/18/13 18:17	04/22/13 11:56	1
Monochrotophos	10	U	10	2.6	ug/L		04/18/13 18:17	04/22/13 11:56	1
Naled	5.0	U	5.0	0.36	ug/L		04/18/13 18:17	04/22/13 11:56	1
Ethyl Parathion	1.0	U	1.0	0.080	ug/L		04/18/13 18:17	04/22/13 11:56	1
Phorate	1.0	U	1.0	0.16	ug/L		04/18/13 18:17	04/22/13 11:56	1
Ronnel	1.0	U	1.0	0.13	ug/L		04/18/13 18:17	04/22/13 11:56	1
Simazine	2.0	U	2.0	0.37	ug/L		04/18/13 18:17	04/22/13 11:56	1
Stirophos (Tetrachlorvinphos)	1.0	U	1.0	0.084	ug/L		04/18/13 18:17	04/22/13 11:56	1
Sulfotepp	0.50	U	0.50	0.055	ug/L		04/18/13 18:17	04/22/13 11:56	1
Terbufos	1.0	U	1.0	0.082	ug/L		04/18/13 18:17	04/22/13 11:56	1
Thionazin	1.0	U	1.0	0.061	ug/L		04/18/13 18:17	04/22/13 11:56	1
Tokuthion	1.0	U	1.0	0.087	ug/L		04/18/13 18:17	04/22/13 11:56	1
Trichloronate	1.0	U	1.0	0.11	ug/L		04/18/13 18:17	04/22/13 11:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate (TPP)	*96*		*37 - 139*	*04/18/13 18:17*	*04/22/13 11:56*	*1*

Lab Sample ID: LCS 640-101150/2-A
Matrix: Water
Analysis Batch: 101203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	10.0	11.3		ug/L		113	49 - 139
Azinphos-methyl	2.50	2.46		ug/L		98	50 - 130
Bolstar	2.50	2.64		ug/L		106	50 - 130
Chlorpyrifos	2.50	2.66		ug/L		106	50 - 130
Coumaphos	2.50	2.36		ug/L		94	50 - 130
Demeton, Total	5.00	3.95		ug/L		79	
Diazinon	2.50	2.64		ug/L		106	42 - 132
Dichlofenthion	2.50	2.52		ug/L		101	50 - 130
Dichlorvos	2.50	2.22		ug/L		89	50 - 130
EPN	2.50	3.60	*	ug/L		144	50 - 130
Ethion	2.50	2.83		ug/L		113	50 - 130
Famphur	2.50	2.88		ug/L		115	50 - 130

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: LCS 640-101150/2-A
Matrix: Water
Analysis Batch: 101203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101150

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fensulfothion			2.50	2.64	J	ug/L		106	50 - 130		
Fenthion			2.50	2.40		ug/L		96	50 - 130		
Malathion			2.50	2.72		ug/L		109	50 - 130		
Methyl parathion			2.50	2.80		ug/L		112	43 - 140		
Mevinphos			2.50	2.08		ug/L		83	50 - 130		
Ethoprop			2.50	2.59		ug/L		103	50 - 130		
Monochrotophos			10.0	3.18	J	ug/L		32	10 - 100		
Naled			10.0	8.81		ug/L		88	50 - 130		
Ethyl Parathion			2.50	3.10		ug/L		124	49 - 134		
Phorate			2.50	2.18		ug/L		87	50 - 130		
Ronnel			2.50	2.38		ug/L		95	38 - 124		
Simazine			10.0	8.25		ug/L		82	50 - 130		
Tokuthion			2.50	2.64		ug/L		106	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate (TPP)	*118*		*37 - 139*

Lab Sample ID: LCSD 640-101150/3-A
Matrix: Water
Analysis Batch: 101203

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101150

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Atrazine			10.0	9.28		ug/L		93	49 - 139	20	30
Azinphos-methyl			2.50	2.49		ug/L		100	50 - 130	1	30
Bolstar			2.50	2.42		ug/L		97	50 - 130	9	30
Chlorpyrifos			2.50	2.31		ug/L		93	50 - 130	14	30
Coumaphos			2.50	3.02		ug/L		121	50 - 130	24	30
Demeton, Total			5.00	3.48		ug/L		70		13	
Diazinon			2.50	2.18		ug/L		87	42 - 132	19	30
Dichlofenthion			2.50	2.33		ug/L		93	50 - 130	8	30
Dichlorvos			2.50	1.63	J *	ug/L		65	50 - 130	31	30
EPN			2.50	3.33	*	ug/L		133	50 - 130	8	30
Ethion			2.50	2.55		ug/L		102	50 - 130	10	30
Famphur			2.50	2.62		ug/L		105	50 - 130	10	30
Fensulfothion			2.50	2.67	J	ug/L		107	50 - 130	1	30
Fenthion			2.50	2.09		ug/L		84	50 - 130	14	30
Malathion			2.50	2.34		ug/L		94	50 - 130	15	30
Methyl parathion			2.50	2.48		ug/L		99	43 - 140	12	30
Mevinphos			2.50	1.77	J	ug/L		71	50 - 130	16	30
Ethoprop			2.50	2.15		ug/L		86	50 - 130	18	30
Monochrotophos			10.0	4.04	J	ug/L		40	10 - 100	24	30
Naled			10.0	8.00		ug/L		80	50 - 130	10	30
Ethyl Parathion			2.50	2.72		ug/L		109	49 - 134	13	30
Phorate			2.50	1.83		ug/L		73	50 - 130	17	30
Ronnel			2.50	2.12		ug/L		85	38 - 124	12	30
Simazine			10.0	7.40		ug/L		74	50 - 130	11	30
Tokuthion			2.50	2.53		ug/L		101	50 - 130	4	30

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: LCSD 640-101150/3-A
Matrix: Water
Analysis Batch: 101203

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101150

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Triphenylphosphate (TPP)	*111*		*37 - 139*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-273513/1-A
Matrix: Water
Analysis Batch: 273974

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 273513

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	50	ug/L		04/18/13 09:16	04/21/13 09:47	1
Antimony	5.0	U	5.0	2.0	ug/L		04/18/13 09:16	04/21/13 09:47	1
Arsenic	2.5	U	2.5	1.3	ug/L		04/18/13 09:16	04/21/13 09:47	1
Barium	5.0	U	5.0	1.4	ug/L		04/18/13 09:16	04/21/13 09:47	1
Beryllium	0.50	U	0.50	0.15	ug/L		04/18/13 09:16	04/21/13 09:47	1
Cadmium	0.50	U	0.50	0.13	ug/L		04/18/13 09:16	04/21/13 09:47	1
Calcium	500	U	500	170	ug/L		04/18/13 09:16	04/21/13 09:47	1
Chromium	5.0	U	5.0	2.5	ug/L		04/18/13 09:16	04/21/13 09:47	1
Cobalt	0.50	U	0.50	0.12	ug/L		04/18/13 09:16	04/21/13 09:47	1
Copper	5.0	U	5.0	1.1	ug/L		04/18/13 09:16	04/21/13 09:47	1
Lead	1.5	U	1.5	0.50	ug/L		04/18/13 09:16	04/21/13 09:47	1
Magnesium	250	U	250	100	ug/L		04/18/13 09:16	04/21/13 09:47	1
Manganese	5.0	U	5.0	2.0	ug/L		04/18/13 09:16	04/21/13 09:47	1
Nickel	5.0	U	5.0	2.0	ug/L		04/18/13 09:16	04/21/13 09:47	1
Potassium	1000	U	1000	330	ug/L		04/18/13 09:16	04/21/13 09:47	1
Selenium	2.5	U	2.5	1.1	ug/L		04/18/13 09:16	04/21/13 09:47	1
Sodium	500	U	500	170	ug/L		04/18/13 09:16	04/21/13 09:47	1
Thallium	1.0	U	1.0	0.25	ug/L		04/18/13 09:16	04/21/13 09:47	1
Vanadium	10	U	10	3.2	ug/L		04/18/13 09:16	04/21/13 09:47	1
Zinc	20	U	20	8.4	ug/L		04/18/13 09:16	04/21/13 09:47	1

Lab Sample ID: LCS 680-273513/2-A
Matrix: Water
Analysis Batch: 273974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 273513

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5000	5470		ug/L		109	75 - 125
Antimony	50.0	54.9		ug/L		110	75 - 125
Arsenic	100	110		ug/L		110	75 - 125
Barium	100	108		ug/L		108	75 - 125
Beryllium	50.0	53.8		ug/L		108	75 - 125
Cadmium	50.0	52.2		ug/L		104	75 - 125
Calcium	5000	5600		ug/L		112	75 - 125
Chromium	100	109		ug/L		109	75 - 125
Cobalt	50.0	53.7		ug/L		107	75 - 125
Copper	100	104		ug/L		104	75 - 125
Lead	50.0	51.3		ug/L		103	75 - 125
Magnesium	5000	5420		ug/L		108	75 - 125
Manganese	500	555		ug/L		111	75 - 125

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-273513/2-A
Matrix: Water
Analysis Batch: 273974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 273513

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	100	109		ug/L		109	75 - 125
Potassium	5000	5140		ug/L		103	75 - 125
Selenium	100	108		ug/L		108	75 - 125
Sodium	5000	5330		ug/L		107	75 - 125
Thallium	40.0	41.1		ug/L		103	75 - 125
Vanadium	100	109		ug/L		109	75 - 125
Zinc	100	108		ug/L		108	75 - 125

Lab Sample ID: MB 680-273985/1-A
Matrix: Water
Analysis Batch: 274580

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 273985

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	100	U	100	44	ug/L		04/22/13 16:33	04/25/13 14:32	1
Silver	1.0	U	1.0	0.18	ug/L		04/22/13 16:33	04/25/13 14:32	1

Lab Sample ID: LCS 680-273985/3-A
Matrix: Water
Analysis Batch: 274580

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 273985

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	20000	18900		ug/L		94	75 - 125
Silver	200	204		ug/L		102	75 - 125

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-273358/1-A
Matrix: Water
Analysis Batch: 273677

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 273358

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		04/17/13 11:00	04/18/13 16:36	1

Lab Sample ID: LCS 680-273358/2-A
Matrix: Water
Analysis Batch: 273677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 273358

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.50		ug/L		100	80 - 120

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 680-273308/2
Matrix: Water
Analysis Batch: 273308

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	10	U	10	3.0	ug/L			04/16/13 17:04	1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCS 680-273308/1
Matrix: Water
Analysis Batch: 273308

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium, hexavalent			200	212		ug/L		106	85 - 115		

Lab Sample ID: 680-89383-2 MS
Matrix: Water
Analysis Batch: 273308

Client Sample ID: DDMW-2-20130415-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium, hexavalent	10	U	200	203		ug/L		102	85 - 115		

Lab Sample ID: 680-89383-2 MSD
Matrix: Water
Analysis Batch: 273308

Client Sample ID: DDMW-2-20130415-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	10	U	200	203		ug/L		102	85 - 115	0	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 680-273497/1-A
Matrix: Water
Analysis Batch: 273583

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 273497

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	10	U	10	5.0	ug/L		04/18/13 07:00	04/18/13 12:55	1

Lab Sample ID: LCS 680-273497/2-A
Matrix: Water
Analysis Batch: 273583

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 273497

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			50.0	47.5		ug/L		95	85 - 115		

GC/MS VOA

Analysis Batch: 273341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89383-1	DDMW-1-20130415-01	Total/NA	Water	8260B	
680-89383-2	DDMW-2-20130415-01	Total/NA	Water	8260B	
680-89383-3	TB-01-20130415-01 (ATL-143)	Total/NA	Water	8260B	
LCS 680-273341/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-273341/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-273341/7	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 183714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89383-1	DDMW-1-20130415-01	Total/NA	Water	3510C	
680-89383-2	DDMW-2-20130415-01	Total/NA	Water	3510C	
LCS 500-183714/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-183714/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 500-183714/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 183989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-183714/2-A	Lab Control Sample	Total/NA	Water	8270C	183714
LCSD 500-183714/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	183714
MB 500-183714/1-A	Method Blank	Total/NA	Water	8270C	183714

Analysis Batch: 184148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89383-1	DDMW-1-20130415-01	Total/NA	Water	8270C	183714
680-89383-2	DDMW-2-20130415-01	Total/NA	Water	8270C	183714

GC Semi VOA

Prep Batch: 101150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89383-1	DDMW-1-20130415-01	Total/NA	Water	3520C	
680-89383-2	DDMW-2-20130415-01	Total/NA	Water	3520C	
LCS 640-101150/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 640-101150/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 640-101150/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 101203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89383-1	DDMW-1-20130415-01	Total/NA	Water	8141A	101150
680-89383-2	DDMW-2-20130415-01	Total/NA	Water	8141A	101150
LCS 640-101150/2-A	Lab Control Sample	Total/NA	Water	8141A	101150
LCSD 640-101150/3-A	Lab Control Sample Dup	Total/NA	Water	8141A	101150
MB 640-101150/1-A	Method Blank	Total/NA	Water	8141A	101150

Prep Batch: 183627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89383-1	DDMW-1-20130415-01	Total/NA	Water	3510C	
680-89383-2	DDMW-2-20130415-01	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 183627 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-183627/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 500-183627/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-183627/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 500-183627/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 500-183627/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 183728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89383-1	DDMW-1-20130415-01	Total/NA	Water	8081A	183627
680-89383-2	DDMW-2-20130415-01	Total/NA	Water	8081A	183627
LCS 500-183627/2-A	Lab Control Sample	Total/NA	Water	8081A	183627
LCSD 500-183627/3-A	Lab Control Sample Dup	Total/NA	Water	8081A	183627
MB 500-183627/1-A	Method Blank	Total/NA	Water	8081A	183627

Analysis Batch: 183843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89383-1	DDMW-1-20130415-01	Total/NA	Water	8082	183627
680-89383-2	DDMW-2-20130415-01	Total/NA	Water	8082	183627
LCS 500-183627/4-A	Lab Control Sample	Total/NA	Water	8082	183627
LCSD 500-183627/5-A	Lab Control Sample Dup	Total/NA	Water	8082	183627
MB 500-183627/1-A	Method Blank	Total/NA	Water	8082	183627

Metals

Prep Batch: 273358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89383-1	DDMW-1-20130415-01	Total/NA	Water	7470A	
680-89383-2	DDMW-2-20130415-01	Total/NA	Water	7470A	
LCS 680-273358/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-273358/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 273513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89383-1	DDMW-1-20130415-01	Total/NA	Water	3010A	
680-89383-2	DDMW-2-20130415-01	Total/NA	Water	3010A	
LCS 680-273513/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 680-273513/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 273677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89383-1	DDMW-1-20130415-01	Total/NA	Water	7470A	273358
680-89383-2	DDMW-2-20130415-01	Total/NA	Water	7470A	273358
LCS 680-273358/2-A	Lab Control Sample	Total/NA	Water	7470A	273358
MB 680-273358/1-A	Method Blank	Total/NA	Water	7470A	273358

Analysis Batch: 273974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89383-1	DDMW-1-20130415-01	Total/NA	Water	6020A	273513
680-89383-2	DDMW-2-20130415-01	Total/NA	Water	6020A	273513
LCS 680-273513/2-A	Lab Control Sample	Total/NA	Water	6020A	273513

Metals (Continued)

Analysis Batch: 273974 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-273513/1-A	Method Blank	Total/NA	Water	6020A	273513

Prep Batch: 273985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89383-1	DDMW-1-20130415-01	Total/NA	Water	3010A	
680-89383-2	DDMW-2-20130415-01	Total/NA	Water	3010A	
LCS 680-273985/3-A	Lab Control Sample	Total/NA	Water	3010A	
MB 680-273985/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 274580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89383-1	DDMW-1-20130415-01	Total/NA	Water	6020A	273985
680-89383-2	DDMW-2-20130415-01	Total/NA	Water	6020A	273985
LCS 680-273985/3-A	Lab Control Sample	Total/NA	Water	6020A	273985
MB 680-273985/1-A	Method Blank	Total/NA	Water	6020A	273985

General Chemistry

Analysis Batch: 273308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89383-1	DDMW-1-20130415-01	Total/NA	Water	7196A	
680-89383-2	DDMW-2-20130415-01	Total/NA	Water	7196A	
680-89383-2 MS	DDMW-2-20130415-01	Total/NA	Water	7196A	
680-89383-2 MSD	DDMW-2-20130415-01	Total/NA	Water	7196A	
LCS 680-273308/1	Lab Control Sample	Total/NA	Water	7196A	
MB 680-273308/2	Method Blank	Total/NA	Water	7196A	

Prep Batch: 273497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89383-1	DDMW-1-20130415-01	Total/NA	Water	9012A	
680-89383-2	DDMW-2-20130415-01	Total/NA	Water	9012A	
LCS 680-273497/2-A	Lab Control Sample	Total/NA	Water	9012A	
MB 680-273497/1-A	Method Blank	Total/NA	Water	9012A	

Analysis Batch: 273583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89383-1	DDMW-1-20130415-01	Total/NA	Water	9012A	273497
680-89383-2	DDMW-2-20130415-01	Total/NA	Water	9012A	273497
LCS 680-273497/2-A	Lab Control Sample	Total/NA	Water	9012A	273497
MB 680-273497/1-A	Method Blank	Total/NA	Water	9012A	273497

Client Sample ID: DDMW-1-20130415-01

Lab Sample ID: 680-89383-1

Date Collected: 04/16/13 11:45

Matrix: Water

Date Received: 04/16/13 15:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	273341	04/17/13 17:41	JD	TAL SAV
Total/NA	Prep	3510C			1005.3 mL	1.0 mL	183714	04/22/13 07:31	SCH	TAL CHI
Total/NA	Analysis	8270C		1			184148	04/25/13 17:40	GES	TAL CHI
Total/NA	Prep	3510C			917.2 mL	10.0 mL	183627	04/19/13 20:58	JP	TAL CHI
Total/NA	Analysis	8081A		1			183728	04/22/13 18:28	PG	TAL CHI
Total/NA	Prep	3510C			917.2 mL	10.0 mL	183627	04/19/13 20:58	JP	TAL CHI
Total/NA	Analysis	8082		1			183843	04/23/13 11:14	GMO	TAL CHI
Total/NA	Prep	3520C			1000 mL	5.0 mL	101150	04/18/13 18:17	QC	TAL TAL
Total/NA	Analysis	8141A		1			101203	04/22/13 12:55	MLT	TAL TAL
Total/NA	Prep	7470A			50 mL	50 mL	273358	04/17/13 11:00	UU	TAL SAV
Total/NA	Analysis	7470A		1			273677	04/18/13 17:27	BCB	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	273513	04/18/13 09:16	BB	TAL SAV
Total/NA	Analysis	6020A		1			273974	04/21/13 11:27	BR	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	273985	04/22/13 16:33	BB	TAL SAV
Total/NA	Analysis	6020A		1			274580	04/25/13 16:15	BR	TAL SAV
Total/NA	Analysis	7196A		1	2 mL	2 mL	273308	04/16/13 17:04	JE	TAL SAV
Total/NA	Prep	9012A			50 mL	50 mL	273497	04/18/13 07:00	DAM	TAL SAV
Total/NA	Analysis	9012A		1			273583	04/18/13 13:11	DAM	TAL SAV

Client Sample ID: DDMW-2-20130415-01

Lab Sample ID: 680-89383-2

Date Collected: 04/16/13 09:30

Matrix: Water

Date Received: 04/16/13 15:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	273341	04/17/13 18:11	JD	TAL SAV
Total/NA	Prep	3510C			930.9 mL	1.0 mL	183714	04/22/13 07:31	SCH	TAL CHI
Total/NA	Analysis	8270C		1			184148	04/25/13 18:04	GES	TAL CHI
Total/NA	Prep	3510C			985.4 mL	10.0 mL	183627	04/19/13 20:58	JP	TAL CHI
Total/NA	Analysis	8081A		1			183728	04/22/13 18:48	PG	TAL CHI
Total/NA	Prep	3510C			985.4 mL	10.0 mL	183627	04/19/13 20:58	JP	TAL CHI
Total/NA	Analysis	8082		1			183843	04/23/13 11:28	GMO	TAL CHI
Total/NA	Prep	3520C			1000 mL	5.0 mL	101150	04/18/13 18:17	QC	TAL TAL
Total/NA	Analysis	8141A		1			101203	04/22/13 13:10	MLT	TAL TAL
Total/NA	Prep	7470A			50 mL	50 mL	273358	04/17/13 11:00	UU	TAL SAV
Total/NA	Analysis	7470A		1			273677	04/18/13 17:30	BCB	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	273513	04/18/13 09:16	BB	TAL SAV
Total/NA	Analysis	6020A		1			273974	04/21/13 11:34	BR	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	273985	04/22/13 16:33	BB	TAL SAV
Total/NA	Analysis	6020A		1			274580	04/25/13 16:22	BR	TAL SAV
Total/NA	Analysis	7196A		1	2 mL	2 mL	273308	04/16/13 17:04	JE	TAL SAV
Total/NA	Prep	9012A			50 mL	50 mL	273497	04/18/13 07:00	DAM	TAL SAV
Total/NA	Analysis	9012A		1			273583	04/18/13 13:12	DAM	TAL SAV

Lab Chronicle

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89383-1
SDG: AGL89383-1

Client Sample ID: TB-01-20130415-01 (ATL-143)

Date Collected: 04/16/13 00:00
Date Received: 04/16/13 15:10

Lab Sample ID: 680-89383-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	273341	04/17/13 12:17	JD	TAL SAV

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

Serial Number

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Macon Delineation	0176740-02	GA
TAL (LAB) PROJECT MANAGER: Lidya Gaulzia	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Jim Morrison	CLIENT PHONE: 678-486-2700	CLIENT FAX
CLIENT NAME: ERM	CLIENT E-MAIL: Jim.Morrison@ERM.COM	
CLIENT ADDRESS: 3500 Windy Hill Rd ste 1500W, Atlanta GA 30339		
COMPANY CONTRACTING THIS WORK (if applicable)		

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: HCl VOCs	Vone SVOCs	HNO3 Metals	Cyanide	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/15/13	1530	MW-08D-20130415-01	G	X				3	2	1	1			Dilineation

PAGE: OF

STANDARD REPORT DELIVERY ⬭

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ⌀

DATE DUE 3 DAY

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	4/16/13			4/16/13	1510			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	4/16/13	12:15						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	4/16/13	15:10	YES ⬭ NO ⬭	682	89383	2.0 c

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Login Sample Receipt Checklist

Client: ERM-Southeast, Inc.

Job Number: 680-89383-1
SDG Number: AGL89383-1

Login Number: 89383
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	Insufficient volume received for MS/MSD.
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ERM-Southeast, Inc.

Job Number: 680-89383-1
SDG Number: AGL89383-1

Login Number: 89383
List Number: 1
Creator: Lunt, Jeff T

List Source: TestAmerica Chicago
List Creation: 04/19/13 12:15 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: ERM-Southeast, Inc.

Job Number: 680-89383-1
SDG Number: AGL89383-1

Login Number: 89383
List Number: 1
Creator: Carpenter, Jonnie T

List Source: TestAmerica Tallahassee
List Creation: 04/18/13 12:06 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time.		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

Certification Summary

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89383-1
SDG: AGL89383-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	05-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12 *
Kentucky (UST)	State Program	4	18	03-31-13 *
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	05-31-13
California	NELAP	9	01132CA	04-30-14
Georgia	State Program	4	N/A	04-30-14

* Expired certification is currently pending renewal and is considered valid.

Job ID: 680-89352-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: ERM-Southeast, Inc.

Project: Macon MGP Due Diligence AQ APR 2013

Report Number: 680-89352-1

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

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

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

RECEIPT

The samples were received on 04/15/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.9 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples DDMW-3-20130415-01 (680-89352-1), DDMW-4-20130415-01 (680-89352-2) and TB-01-20130415-01 (680-89352-3) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/24/2013.

No difficulties were encountered during the volatiles analyses.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples DDMW-3-20130415-01 (680-89352-1) and DDMW-4-20130415-01 (680-89352-2) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/18/2013 and 04/25/2013 and analyzed on 04/24/2013 and 04/25/2013.

Three surrogate recoveries for the following sample were outside control limits: DDMW-3-20130415-01 (680-89352-1). Re-extraction was performed outside of holding time with acceptable results. Both sets of data have been reported.

One base surrogate and one acid surrogate failed to meet control limits for the following sample DDMW-4-20130415-01 (680-89352-2). All surrogate recoveries were greater than 10%. No further action was required.

A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 4 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS/LCSD associated with batch 184113 had 1 known poor performing analytes outside control limits: Benzidine @ 7% and 9% (limits are 10-100%); therefore, corrective action was not performed. These results have been reported and qualified. DDMW-3-20130415-01 (680-89352-1)

The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batches 183383 and 184113 recovered outside control limits for Benzoic acid and Benzidine.DDMW-3-20130415-01 (680-89352-1), DDMW-4-20130415-01

Job ID: 680-89352-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

(680-89352-2)

The initial calibration verification (ICV) for analytical batch 500-183587/13 and 14 was outside control criteria for Benzoic acid, 4-Chloroaniline, 3 & 4 Methylphenol, and Phenol. The affected samples were non detects for these analytes. The data have been qualified and reported.DDMW-3-20130415-01 (680-89352-1), DDMW-4-20130415-01 (680-89352-2)

The continuing calibration verifications (CCV's) for Aramite associated with batches 500-183989/5 and 184148/4 recovered above the upper control limit. The samples associated with these CCV's were non-detects for the affected analytes; therefore, the data have been reported. DDMW-3-20130415-01 (680-89352-1), DDMW-4-20130415-01 (680-89352-2)

Internal standard (ISTD) responses for some CCV's were outside of acceptance limits: DDMW-3-20130415-01 (680-89352-1), DDMW-4-20130415-01 (680-89352-2). The affected samples were not re-analyzed due to CCV recoveries meeting control limits.

No other difficulties were encountered during the semivolatiles analyses.

All other quality control parameters were within the acceptance limits.

CHLORINATED PESTICIDES

Samples DDMW-3-20130415-01 (680-89352-1) and DDMW-4-20130415-01 (680-89352-2) were analyzed for chlorinated pesticides in accordance with EPA SW-846 Method 8081A. The samples were prepared and analyzed on 04/18/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

The laboratory control sample (LCS) for batch 183366 exceeded control limits for the following analytes: Hepatachlor. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.DDMW-3-20130415-01 (680-89352-1), DDMW-4-20130415-01 (680-89352-2)

The continuing calibration verification (CCV) for Heptachlor associated with batch 183459 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. DDMW-3-20130415-01 (680-89352-1), DDMW-4-20130415-01 (680-89352-2)

No other difficulties were encountered during the pesticides analyses.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples DDMW-3-20130415-01 (680-89352-1) and DDMW-4-20130415-01 (680-89352-2) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 04/18/2013 and analyzed on 04/19/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

No difficulties were encountered during the PCBs analyses.

All quality control parameters were within the acceptance limits.

ORGANOPHOSPHORUS PESTICIDES

Samples DDMW-3-20130415-01 (680-89352-1) and DDMW-4-20130415-01 (680-89352-2) were analyzed for organophosphorus pesticides in accordance with EPA SW-846 Method 8141A. The samples were prepared on 04/18/2013 and analyzed on 04/22/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 640-101150 exceeded control limits for

Job ID: 680-89352-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

the following analyte: epn. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for batch 640-101150 exceeded control limits for the following analyte(s): dichlorvos, demeton-o. dichlorvos, demeton-o has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Only batch precision exceeded control limits for dichlorvos. These results have been reported and qualified.

No other difficulties were encountered during the pesticides analyses.

All other quality control parameters were within the acceptance limits.

METALS (ICPMS)

Samples DDMW-3-20130415-01 (680-89352-1) and DDMW-4-20130415-01 (680-89352-2) were analyzed for Metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 04/18/2013 and 04/22/2013 and analyzed on 04/21/2013 and 04/25/2013.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for barium, magnesium and antimony in batch 273513 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Due to the high concentration of calcium, sodium and strontium, the matrix spike / matrix spike duplicate (MS/MSD) for batch 273513 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-273985 were outside control limits for silver. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM

Samples DDMW-3-20130415-01 (680-89352-1) and DDMW-4-20130415-01 (680-89352-2) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were analyzed on 04/16/2013.

Sample DDMW-4-20130415-01 (680-89352-2)[5X] required dilution prior to analysis due to the nature of the sample matrix: DDMW-4-20130415-01 (680-89352-2). Elevated reporting limits (RLs) are provided.

No difficulties were encountered during the hexavalent chromium analyses.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples DDMW-3-20130415-01 (680-89352-1) and DDMW-4-20130415-01 (680-89352-2) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 04/16/2013 and analyzed on 04/17/2013.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

TOTAL CYANIDE

Samples DDMW-3-20130415-01 (680-89352-1) and DDMW-4-20130415-01 (680-89352-2) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared and analyzed on 04/19/2013.

No difficulties were encountered during the cyanide analyses.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89352-1
SDG: AGL89352

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89352-1	DDMW-3-20130415-01	Water	04/15/13 11:30	04/15/13 16:00
680-89352-2	DDMW-4-20130415-01	Water	04/15/13 13:00	04/15/13 16:00
680-89352-3	TB-01-20130415-01	Water	04/15/13 00:00	04/15/13 16:00

Method Summary

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89352-1
SDG: AGL89352

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8081A	Organochlorine Pesticides (GC)	SW846	TAL CHI
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
8141A	Organophosphorous Pesticides (GC)	SW846	TAL TAL
6020A	Metals (ICP/MS)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
7196A	Chromium, Hexavalent	SW846	TAL SAV
9012A	Cyanide, Total and/or Amenable	SW846	TAL SAV

Protocol References:

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
*	RPD of the LCS and LCSD exceeds the control limits
H	Sample was prepped or analyzed beyond the specified holding time
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	RPD of the LCS and LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89352-1
SDG: AGL89352

Client Sample ID: DDMW-3-20130415-01
Date Collected: 04/15/13 11:30
Date Received: 04/15/13 16:00

Lab Sample ID: 680-89352-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			04/24/13 18:06	1
Benzene	1.0	U	1.0	0.25	ug/L			04/24/13 18:06	1
Bromobenzene	1.0	U	1.0	0.16	ug/L			04/24/13 18:06	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			04/24/13 18:06	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			04/24/13 18:06	1
Bromoform	1.0	U	1.0	0.50	ug/L			04/24/13 18:06	1
Bromomethane	1.0	U	1.0	0.80	ug/L			04/24/13 18:06	1
2-Butanone	10	U	10	1.0	ug/L			04/24/13 18:06	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			04/24/13 18:06	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			04/24/13 18:06	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/24/13 18:06	1
Chloroethane	1.0	U	1.0	1.0	ug/L			04/24/13 18:06	1
Chloroform	1.0	U	1.0	0.14	ug/L			04/24/13 18:06	1
Chloromethane	1.0	U	1.0	0.33	ug/L			04/24/13 18:06	1
Chloroprene	1.0	U	1.0	0.30	ug/L			04/24/13 18:06	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/L			04/24/13 18:06	1
4-Chlorotoluene	1.0	U	1.0	0.27	ug/L			04/24/13 18:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			04/24/13 18:06	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			04/24/13 18:06	1
Cyclohexane	1.0	U	1.0	0.25	ug/L			04/24/13 18:06	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			04/24/13 18:06	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			04/24/13 18:06	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			04/24/13 18:06	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			04/24/13 18:06	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			04/24/13 18:06	1
1,3-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/24/13 18:06	1
1,4-Dichlorobenzene	1.0	U	1.0	0.28	ug/L			04/24/13 18:06	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			04/24/13 18:06	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/24/13 18:06	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			04/24/13 18:06	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			04/24/13 18:06	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			04/24/13 18:06	1
1,3-Dichloropropane	1.0	U	1.0	0.13	ug/L			04/24/13 18:06	1
2,2-Dichloropropane	1.0	U	1.0	0.12	ug/L			04/24/13 18:06	1
1,1-Dichloropropene	1.0	U	1.0	0.25	ug/L			04/24/13 18:06	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			04/24/13 18:06	1
Hexachlorobutadiene	1.0	U	1.0	0.40	ug/L			04/24/13 18:06	1
2-Hexanone	10	U	10	1.0	ug/L			04/24/13 18:06	1
Isopropylbenzene	1.0	U	1.0	0.10	ug/L			04/24/13 18:06	1
Methyl acetate	1.0	U	1.0	0.19	ug/L			04/24/13 18:06	1
Methylcyclohexane	1.0	U	1.0	0.10	ug/L			04/24/13 18:06	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			04/24/13 18:06	1
4-Methyl-2-pentanone	10	U	10	1.0	ug/L			04/24/13 18:06	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			04/24/13 18:06	1
Naphthalene	5.0	U	5.0	1.0	ug/L			04/24/13 18:06	1
n-Butylbenzene	1.0	U	1.0	0.10	ug/L			04/24/13 18:06	1
N-Propylbenzene	1.0	U	1.0	0.15	ug/L			04/24/13 18:06	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			04/24/13 18:06	1
sec-Butylbenzene	1.0	U	1.0	0.16	ug/L			04/24/13 18:06	1

Client Sample ID: DDMW-3-20130415-01
Date Collected: 04/15/13 11:30
Date Received: 04/15/13 16:00

Lab Sample ID: 680-89352-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U	1.0	0.11	ug/L			04/24/13 18:06	1
tert-Butylbenzene	1.0	U	1.0	0.12	ug/L			04/24/13 18:06	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			04/24/13 18:06	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			04/24/13 18:06	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			04/24/13 18:06	1
Toluene	1.0	U	1.0	0.33	ug/L			04/24/13 18:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			04/24/13 18:06	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			04/24/13 18:06	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			04/24/13 18:06	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.25	ug/L			04/24/13 18:06	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			04/24/13 18:06	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			04/24/13 18:06	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			04/24/13 18:06	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			04/24/13 18:06	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			04/24/13 18:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			04/24/13 18:06	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			04/24/13 18:06	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			04/24/13 18:06	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			04/24/13 18:06	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			04/24/13 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*70 - 130*		*04/24/13 18:06*	*1*
Dibromofluoromethane	*91*		*70 - 130*		*04/24/13 18:06*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/24/13 18:06*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.0	U	1.0	0.37	ug/L		04/18/13 08:47	04/24/13 18:09	1
Acenaphthylene	1.0	U	1.0	0.33	ug/L		04/18/13 08:47	04/24/13 18:09	1
Acetophenone	5.1	U	5.1	0.82	ug/L		04/18/13 08:47	04/24/13 18:09	1
2-Acetylaminofluorene	5.1	U	5.1	1.0	ug/L		04/18/13 08:47	04/24/13 18:09	1
alpha,alpha-Dimethyl phenethylamine	41	U	41	8.7	ug/L		04/18/13 08:47	04/24/13 18:09	1
4-Aminobiphenyl	10	U	10	1.3	ug/L		04/18/13 08:47	04/24/13 18:09	1
Aniline	20	U	20	3.5	ug/L		04/18/13 08:47	04/24/13 18:09	1
Anthracene	1.0	U	1.0	0.33	ug/L		04/18/13 08:47	04/24/13 18:09	1
Aramite	5.1	U	5.1	1.3	ug/L		04/18/13 08:47	04/24/13 18:09	1
Benzenethiol	20	U	20	10	ug/L		04/18/13 08:47	04/24/13 18:09	1
Benzidine	41	U	41	20	ug/L		04/18/13 08:47	04/24/13 18:09	1
Benzo[a]anthracene	0.20	U	0.20	0.045	ug/L		04/18/13 08:47	04/24/13 18:09	1
Benzo[a]pyrene	0.20	U	0.20	0.057	ug/L		04/18/13 08:47	04/24/13 18:09	1
Benzo[b]fluoranthene	0.20	U	0.20	0.059	ug/L		04/18/13 08:47	04/24/13 18:09	1
Benzo[g,h,i]perylene	1.0	U	1.0	0.43	ug/L		04/18/13 08:47	04/24/13 18:09	1
Benzoic acid	20	U ^ *	20	4.6	ug/L		04/18/13 08:47	04/24/13 18:09	1
Benzo[k]fluoranthene	0.20	U	0.20	0.075	ug/L		04/18/13 08:47	04/24/13 18:09	1
Benzyl alcohol	20	U	20	3.1	ug/L		04/18/13 08:47	04/24/13 18:09	1
Bis(2-chloroethoxy)methane	2.0	U	2.0	0.31	ug/L		04/18/13 08:47	04/24/13 18:09	1
Bis(2-chloroethyl)ether	2.0	U	2.0	0.36	ug/L		04/18/13 08:47	04/24/13 18:09	1
Bis(2-ethylhexyl) phthalate	10	U	10	2.5	ug/L		04/18/13 08:47	04/24/13 18:09	1
4-Bromophenyl phenyl ether	5.1	U	5.1	0.93	ug/L		04/18/13 08:47	04/24/13 18:09	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89352-1
SDG: AGL89352

Client Sample ID: DDMW-3-20130415-01
Date Collected: 04/15/13 11:30
Date Received: 04/15/13 16:00

Lab Sample ID: 680-89352-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	2.0	U	2.0	0.27	ug/L		04/18/13 08:47	04/24/13 18:09	1
Carbofuran	10	U	10	1.4	ug/L		04/18/13 08:47	04/24/13 18:09	1
4-Chloroaniline	10	U ^	10	2.1	ug/L		04/18/13 08:47	04/24/13 18:09	1
4-Chloro-3-methylphenol	10	U	10	2.2	ug/L		04/18/13 08:47	04/24/13 18:09	1
1-Chloronaphthalene	2.0	U	2.0	2.0	ug/L		04/18/13 08:47	04/24/13 18:09	1
2-Chloronaphthalene	2.0	U	2.0	0.35	ug/L		04/18/13 08:47	04/24/13 18:09	1
2-Chlorophenol	5.1	U	5.1	0.81	ug/L		04/18/13 08:47	04/24/13 18:09	1
4-Chlorophenyl phenyl ether	5.1	U	5.1	0.82	ug/L		04/18/13 08:47	04/24/13 18:09	1
Chrysene	0.51	U	0.51	0.14	ug/L		04/18/13 08:47	04/24/13 18:09	1
Diallate	5.1	U	5.1	2.3	ug/L		04/18/13 08:47	04/24/13 18:09	1
Dibenz(a,h)anthracene	0.31	U	0.31	0.065	ug/L		04/18/13 08:47	04/24/13 18:09	1
Dibenz[a,j]acridine	5.1	U	5.1	1.3	ug/L		04/18/13 08:47	04/24/13 18:09	1
Dibenzofuran	2.0	U	2.0	0.36	ug/L		04/18/13 08:47	04/24/13 18:09	1
1,2-Dichlorobenzene	2.0	U	2.0	0.30	ug/L		04/18/13 08:47	04/24/13 18:09	1
1,3-Dichlorobenzene	2.0	U	2.0	0.25	ug/L		04/18/13 08:47	04/24/13 18:09	1
1,4-Dichlorobenzene	2.0	U	2.0	0.27	ug/L		04/18/13 08:47	04/24/13 18:09	1
3,3'-Dichlorobenzidine	5.1	U	5.1	0.96	ug/L		04/18/13 08:47	04/24/13 18:09	1
2,4-Dichlorophenol	10	U	10	2.3	ug/L		04/18/13 08:47	04/24/13 18:09	1
2,6-Dichlorophenol	5.1	U	5.1	0.87	ug/L		04/18/13 08:47	04/24/13 18:09	1
Diethyl phthalate	2.0	U	2.0	0.45	ug/L		04/18/13 08:47	04/24/13 18:09	1
Diethylstilbestrol	20	U	20	2.1	ug/L		04/18/13 08:47	04/24/13 18:09	1
Dimethoate	10	U	10	1.5	ug/L		04/18/13 08:47	04/24/13 18:09	1
7,12-Dimethylbenz(a)anthracene	5.1	U	5.1	2.3	ug/L		04/18/13 08:47	04/24/13 18:09	1
3,3'-Dimethylbenzidine	20	U	20	9.3	ug/L		04/18/13 08:47	04/24/13 18:09	1
2,4-Dimethylphenol	10	U	10	3.4	ug/L		04/18/13 08:47	04/24/13 18:09	1
Dimethyl phthalate	2.0	U	2.0	0.39	ug/L		04/18/13 08:47	04/24/13 18:09	1
Di-n-butyl phthalate	5.1	U	5.1	0.81	ug/L		04/18/13 08:47	04/24/13 18:09	1
1,4-Dinitrobenzene	5.1	U	5.1	2.0	ug/L		04/18/13 08:47	04/24/13 18:09	1
4,6-Dinitro-2-methylphenol	20	U	20	5.0	ug/L		04/18/13 08:47	04/24/13 18:09	1
2,4-Dinitrophenol	20	U	20	7.6	ug/L		04/18/13 08:47	04/24/13 18:09	1
2,4-Dinitrotoluene	1.0	U	1.0	0.31	ug/L		04/18/13 08:47	04/24/13 18:09	1
2,6-Dinitrotoluene	0.51	U	0.51	0.12	ug/L		04/18/13 08:47	04/24/13 18:09	1
Di-n-octyl phthalate	10	U	10	2.5	ug/L		04/18/13 08:47	04/24/13 18:09	1
Dinoseb	10	U	10	3.3	ug/L		04/18/13 08:47	04/24/13 18:09	1
1,4-Dioxane	20	U	20	7.0	ug/L		04/18/13 08:47	04/24/13 18:09	1
Diphenylamine	5.1	U	5.1	1.8	ug/L		04/18/13 08:47	04/24/13 18:09	1
1,2-Diphenylhydrazine	5.1	U	5.1	0.71	ug/L		04/18/13 08:47	04/24/13 18:09	1
Disulfoton	10	U	10	1.4	ug/L		04/18/13 08:47	04/24/13 18:09	1
Ethyl 4,4'-Dichlorobenzilate	5.1	U	5.1	1.4	ug/L		04/18/13 08:47	04/24/13 18:09	1
Ethyl methanesulfonate	5.1	U	5.1	2.0	ug/L		04/18/13 08:47	04/24/13 18:09	1
Ethyl Parathion	10	U	10	1.7	ug/L		04/18/13 08:47	04/24/13 18:09	1
Famphur	10	U	10	1.5	ug/L		04/18/13 08:47	04/24/13 18:09	1
Fluoranthene	1.0	U	1.0	0.33	ug/L		04/18/13 08:47	04/24/13 18:09	1
Fluorene	1.0	U	1.0	0.39	ug/L		04/18/13 08:47	04/24/13 18:09	1
Hexachlorobenzene	0.51	U	0.51	0.14	ug/L		04/18/13 08:47	04/24/13 18:09	1
Hexachlorobutadiene	5.1	U	5.1	1.1	ug/L		04/18/13 08:47	04/24/13 18:09	1
Hexachlorocyclopentadiene	20	U	20	3.5	ug/L		04/18/13 08:47	04/24/13 18:09	1
Hexachloroethane	5.1	U	5.1	0.99	ug/L		04/18/13 08:47	04/24/13 18:09	1
Hexachlorophene	100	U	100	53	ug/L		04/18/13 08:47	04/24/13 18:09	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89352-1
SDG: AGL89352

Client Sample ID: DDMW-3-20130415-01
Date Collected: 04/15/13 11:30
Date Received: 04/15/13 16:00

Lab Sample ID: 680-89352-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloropropene	20	U	20	3.1	ug/L		04/18/13 08:47	04/24/13 18:09	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.086	ug/L		04/18/13 08:47	04/24/13 18:09	1
Isophorone	2.0	U	2.0	0.30	ug/L		04/18/13 08:47	04/24/13 18:09	1
Isosafrole	5.1	U	5.1	1.8	ug/L		04/18/13 08:47	04/24/13 18:09	1
Malathion	10	U	10	1.7	ug/L		04/18/13 08:47	04/24/13 18:09	1
m-Dinitrobenzene	5.1	U	5.1	2.0	ug/L		04/18/13 08:47	04/24/13 18:09	1
Methapyrilene	41	U	41	6.6	ug/L		04/18/13 08:47	04/24/13 18:09	1
3-Methylcholanthrene	5.1	U	5.1	1.0	ug/L		04/18/13 08:47	04/24/13 18:09	1
Methyl methanesulfonate	5.1	U	5.1	1.9	ug/L		04/18/13 08:47	04/24/13 18:09	1
2-Methylnaphthalene	0.51	U	0.51	0.13	ug/L		04/18/13 08:47	04/24/13 18:09	1
Methyl parathion	10	U	10	1.6	ug/L		04/18/13 08:47	04/24/13 18:09	1
2-Methylphenol	2.0	U	2.0	0.32	ug/L		04/18/13 08:47	04/24/13 18:09	1
3 & 4 Methylphenol	2.0	U ^	2.0	0.45	ug/L		04/18/13 08:47	04/24/13 18:09	1
Naphthalene	1.0	U	1.0	0.31	ug/L		04/18/13 08:47	04/24/13 18:09	1
1,4-Naphthoquinone	10	U	10	1.8	ug/L		04/18/13 08:47	04/24/13 18:09	1
1-Naphthylamine	10	U	10	1.4	ug/L		04/18/13 08:47	04/24/13 18:09	1
2-Naphthylamine	10	U	10	1.5	ug/L		04/18/13 08:47	04/24/13 18:09	1
2-Nitroaniline	5.1	U	5.1	1.1	ug/L		04/18/13 08:47	04/24/13 18:09	1
3-Nitroaniline	10	U	10	2.3	ug/L		04/18/13 08:47	04/24/13 18:09	1
4-Nitroaniline	10	U	10	4.0	ug/L		04/18/13 08:47	04/24/13 18:09	1
Nitrobenzene	1.0	U	1.0	0.46	ug/L		04/18/13 08:47	04/24/13 18:09	1
5-Nitro-o-toluidine	5.1	U	5.1	1.6	ug/L		04/18/13 08:47	04/24/13 18:09	1
2-Nitrophenol	10	U	10	2.2	ug/L		04/18/13 08:47	04/24/13 18:09	1
4-Nitrophenol	20	U	20	2.4	ug/L		04/18/13 08:47	04/24/13 18:09	1
4-Nitroquinoline-1-oxide	20	U	20	12	ug/L		04/18/13 08:47	04/24/13 18:09	1
N-Nitrosodiethylamine	5.1	U	5.1	1.2	ug/L		04/18/13 08:47	04/24/13 18:09	1
N-Nitrosodimethylamine	10	U	10	1.4	ug/L		04/18/13 08:47	04/24/13 18:09	1
N-Nitrosodi-n-butylamine	5.1	U	5.1	1.0	ug/L		04/18/13 08:47	04/24/13 18:09	1
N-Nitrosodi-n-propylamine	0.51	U	0.51	0.14	ug/L		04/18/13 08:47	04/24/13 18:09	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.35	ug/L		04/18/13 08:47	04/24/13 18:09	1
N-Nitrosomethylethylamine	5.1	U	5.1	1.1	ug/L		04/18/13 08:47	04/24/13 18:09	1
N-Nitrosomorpholine	5.1	U	5.1	2.5	ug/L		04/18/13 08:47	04/24/13 18:09	1
N-Nitrosopiperidine	5.1	U	5.1	0.82	ug/L		04/18/13 08:47	04/24/13 18:09	1
N-Nitrosopyrrolidine	5.1	U	5.1	0.80	ug/L		04/18/13 08:47	04/24/13 18:09	1
o,o',o''-Triethylphosphorothioate	10	U	10	1.5	ug/L		04/18/13 08:47	04/24/13 18:09	1
o-Toluidine	5.1	U	5.1	1.7	ug/L		04/18/13 08:47	04/24/13 18:09	1
2,2'-oxybis[1-chloropropane]	2.0	U	2.0	0.31	ug/L		04/18/13 08:47	04/24/13 18:09	1
p-Dimethylamino azobenzene	5.1	U	5.1	1.3	ug/L		04/18/13 08:47	04/24/13 18:09	1
Pentachlorobenzene	5.1	U	5.1	1.1	ug/L		04/18/13 08:47	04/24/13 18:09	1
Pentachloronitrobenzene	5.1	U	5.1	1.7	ug/L		04/18/13 08:47	04/24/13 18:09	1
Pentachlorophenol	20	U	20	5.7	ug/L		04/18/13 08:47	04/24/13 18:09	1
Phenacetin	5.1	U	5.1	1.9	ug/L		04/18/13 08:47	04/24/13 18:09	1
Phenanthrene	1.0	U	1.0	0.36	ug/L		04/18/13 08:47	04/24/13 18:09	1
Phenol	5.1	U ^	5.1	0.37	ug/L		04/18/13 08:47	04/24/13 18:09	1
Phorate	10	U	10	1.5	ug/L		04/18/13 08:47	04/24/13 18:09	1
2-Picoline	10	U	10	1.3	ug/L		04/18/13 08:47	04/24/13 18:09	1
p-Phenylene diamine	41	U	41	20	ug/L		04/18/13 08:47	04/24/13 18:09	1
Pronamide	10	U	10	1.1	ug/L		04/18/13 08:47	04/24/13 18:09	1
Pyrene	1.0	U	1.0	0.49	ug/L		04/18/13 08:47	04/24/13 18:09	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89352-1
SDG: AGL89352

Client Sample ID: DDMW-3-20130415-01
Date Collected: 04/15/13 11:30
Date Received: 04/15/13 16:00

Lab Sample ID: 680-89352-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	20	U	20	7.3	ug/L		04/18/13 08:47	04/24/13 18:09	1
Safrole	5.1	U	5.1	1.9	ug/L		04/18/13 08:47	04/24/13 18:09	1
Sulfotepp	10	U	10	1.1	ug/L		04/18/13 08:47	04/24/13 18:09	1
sym-Trinitrobenzene	5.1	U	5.1	2.3	ug/L		04/18/13 08:47	04/24/13 18:09	1
1,2,4,5-Tetrachlorobenzene	5.1	U	5.1	1.2	ug/L		04/18/13 08:47	04/24/13 18:09	1
2,3,4,6-Tetrachlorophenol	5.1	U	5.1	1.5	ug/L		04/18/13 08:47	04/24/13 18:09	1
Thionazin	10	U	10	1.9	ug/L		04/18/13 08:47	04/24/13 18:09	1
1,2,4-Trichlorobenzene	2.0	U	2.0	0.31	ug/L		04/18/13 08:47	04/24/13 18:09	1
2,4,5-Trichlorophenol	10	U	10	2.3	ug/L		04/18/13 08:47	04/24/13 18:09	1
2,4,6-Trichlorophenol	5.1	U	5.1	1.1	ug/L		04/18/13 08:47	04/24/13 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*44*	*X*	*48 - 110*	*04/18/13 08:47*	*04/24/13 18:09*	*1*
2-Fluorophenol	*25*		*20 - 100*	*04/18/13 08:47*	*04/24/13 18:09*	*1*
Nitrobenzene-d5	*34*	*X*	*41 - 110*	*04/18/13 08:47*	*04/24/13 18:09*	*1*
Phenol-d5	*14*	*X*	*20 - 100*	*04/18/13 08:47*	*04/24/13 18:09*	*1*
Terphenyl-d14	*82*		*44 - 132*	*04/18/13 08:47*	*04/24/13 18:09*	*1*
2,4,6-Tribromophenol	*67*		*50 - 129*	*04/18/13 08:47*	*04/24/13 18:09*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.0	U H	1.0	0.36	ug/L		04/25/13 07:41	04/25/13 17:17	1
Acenaphthylene	1.0	U H	1.0	0.32	ug/L		04/25/13 07:41	04/25/13 17:17	1
Acetophenone	5.0	U H	5.0	0.81	ug/L		04/25/13 07:41	04/25/13 17:17	1
2-Acetylaminofluorene	5.0	U H	5.0	0.98	ug/L		04/25/13 07:41	04/25/13 17:17	1
alpha,alpha-Dimethyl phenethylamine	40	U H	40	8.6	ug/L		04/25/13 07:41	04/25/13 17:17	1
4-Aminobiphenyl	10	U H	10	1.3	ug/L		04/25/13 07:41	04/25/13 17:17	1
Aniline	20	U H	20	3.4	ug/L		04/25/13 07:41	04/25/13 17:17	1
Anthracene	1.0	U H	1.0	0.32	ug/L		04/25/13 07:41	04/25/13 17:17	1
Aramite	5.0	U H	5.0	1.3	ug/L		04/25/13 07:41	04/25/13 17:17	1
Benzenethiol	20	U H	20	10	ug/L		04/25/13 07:41	04/25/13 17:17	1
Benzidine	40	U H *	40	20	ug/L		04/25/13 07:41	04/25/13 17:17	1
Benzo[a]anthracene	0.20	U H	0.20	0.044	ug/L		04/25/13 07:41	04/25/13 17:17	1
Benzo[a]pyrene	0.20	U H	0.20	0.056	ug/L		04/25/13 07:41	04/25/13 17:17	1
Benzo[b]fluoranthene	0.20	U H	0.20	0.058	ug/L		04/25/13 07:41	04/25/13 17:17	1
Benzo[g,h,i]perylene	1.0	U H	1.0	0.42	ug/L		04/25/13 07:41	04/25/13 17:17	1
Benzoic acid	20	U H ^ *	20	4.6	ug/L		04/25/13 07:41	04/25/13 17:17	1
Benzo[k]fluoranthene	0.20	U H	0.20	0.074	ug/L		04/25/13 07:41	04/25/13 17:17	1
Benzyl alcohol	20	U H	20	3.0	ug/L		04/25/13 07:41	04/25/13 17:17	1
Bis(2-chloroethoxy)methane	2.0	U H	2.0	0.30	ug/L		04/25/13 07:41	04/25/13 17:17	1
Bis(2-chloroethyl)ether	2.0	U H	2.0	0.35	ug/L		04/25/13 07:41	04/25/13 17:17	1
Bis(2-ethylhexyl) phthalate	10	U H	10	2.4	ug/L		04/25/13 07:41	04/25/13 17:17	1
4-Bromophenyl phenyl ether	5.0	U H	5.0	0.91	ug/L		04/25/13 07:41	04/25/13 17:17	1
Butyl benzyl phthalate	2.0	U H	2.0	0.27	ug/L		04/25/13 07:41	04/25/13 17:17	1
Carbofuran	10	U H	10	1.4	ug/L		04/25/13 07:41	04/25/13 17:17	1
4-Chloroaniline	10	U H ^	10	2.1	ug/L		04/25/13 07:41	04/25/13 17:17	1
4-Chloro-3-methylphenol	10	U H	10	2.2	ug/L		04/25/13 07:41	04/25/13 17:17	1
1-Chloronaphthalene	2.0	U H	2.0	2.0	ug/L		04/25/13 07:41	04/25/13 17:17	1
2-Chloronaphthalene	2.0	U H	2.0	0.34	ug/L		04/25/13 07:41	04/25/13 17:17	1
2-Chlorophenol	5.0	U H	5.0	0.80	ug/L		04/25/13 07:41	04/25/13 17:17	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89352-1
SDG: AGL89352

Client Sample ID: DDMW-3-20130415-01
Date Collected: 04/15/13 11:30
Date Received: 04/15/13 16:00

Lab Sample ID: 680-89352-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	5.0	U H	5.0	0.81	ug/L		04/25/13 07:41	04/25/13 17:17	1
Chrysene	0.50	U H	0.50	0.14	ug/L		04/25/13 07:41	04/25/13 17:17	1
Diallate	5.0	U H	5.0	2.2	ug/L		04/25/13 07:41	04/25/13 17:17	1
Dibenz(a,h)anthracene	0.30	U H	0.30	0.064	ug/L		04/25/13 07:41	04/25/13 17:17	1
Dibenz[a,j]acridine	5.0	U H	5.0	1.3	ug/L		04/25/13 07:41	04/25/13 17:17	1
Dibenzofuran	2.0	U H	2.0	0.35	ug/L		04/25/13 07:41	04/25/13 17:17	1
1,2-Dichlorobenzene	2.0	U H	2.0	0.29	ug/L		04/25/13 07:41	04/25/13 17:17	1
1,3-Dichlorobenzene	2.0	U H	2.0	0.25	ug/L		04/25/13 07:41	04/25/13 17:17	1
1,4-Dichlorobenzene	2.0	U H	2.0	0.27	ug/L		04/25/13 07:41	04/25/13 17:17	1
3,3'-Dichlorobenzidine	5.0	U H	5.0	0.94	ug/L		04/25/13 07:41	04/25/13 17:17	1
2,4-Dichlorophenol	10	U H	10	2.3	ug/L		04/25/13 07:41	04/25/13 17:17	1
2,6-Dichlorophenol	5.0	U H	5.0	0.85	ug/L		04/25/13 07:41	04/25/13 17:17	1
Diethyl phthalate	2.0	U H	2.0	0.44	ug/L		04/25/13 07:41	04/25/13 17:17	1
Diethylstilbestrol	20	U H	20	2.1	ug/L		04/25/13 07:41	04/25/13 17:17	1
Dimethoate	10	U H	10	1.5	ug/L		04/25/13 07:41	04/25/13 17:17	1
7,12-Dimethylbenz(a)anthracene	5.0	U H	5.0	2.2	ug/L		04/25/13 07:41	04/25/13 17:17	1
3,3'-Dimethylbenzidine	20	U H	20	9.1	ug/L		04/25/13 07:41	04/25/13 17:17	1
2,4-Dimethylphenol	10	U H	10	3.3	ug/L		04/25/13 07:41	04/25/13 17:17	1
Dimethyl phthalate	2.0	U H	2.0	0.38	ug/L		04/25/13 07:41	04/25/13 17:17	1
Di-n-butyl phthalate	5.0	U H	5.0	0.80	ug/L		04/25/13 07:41	04/25/13 17:17	1
1,4-Dinitrobenzene	5.0	U H	5.0	2.0	ug/L		04/25/13 07:41	04/25/13 17:17	1
4,6-Dinitro-2-methylphenol	20	U H	20	4.9	ug/L		04/25/13 07:41	04/25/13 17:17	1
2,4-Dinitrophenol	20	U H	20	7.4	ug/L		04/25/13 07:41	04/25/13 17:17	1
2,4-Dinitrotoluene	1.0	U H	1.0	0.30	ug/L		04/25/13 07:41	04/25/13 17:17	1
2,6-Dinitrotoluene	0.50	U H	0.50	0.12	ug/L		04/25/13 07:41	04/25/13 17:17	1
Di-n-octyl phthalate	10	U H	10	2.5	ug/L		04/25/13 07:41	04/25/13 17:17	1
Dinoseb	10	U H	10	3.2	ug/L		04/25/13 07:41	04/25/13 17:17	1
1,4-Dioxane	20	U H	20	6.9	ug/L		04/25/13 07:41	04/25/13 17:17	1
Diphenylamine	5.0	U H	5.0	1.7	ug/L		04/25/13 07:41	04/25/13 17:17	1
1,2-Diphenylhydrazine	5.0	U H	5.0	0.70	ug/L		04/25/13 07:41	04/25/13 17:17	1
Disulfoton	10	U H	10	1.4	ug/L		04/25/13 07:41	04/25/13 17:17	1
Ethyl 4,4'-Dichlorobenzilate	5.0	U H	5.0	1.3	ug/L		04/25/13 07:41	04/25/13 17:17	1
Ethyl methanesulfonate	5.0	U H	5.0	1.9	ug/L		04/25/13 07:41	04/25/13 17:17	1
Ethyl Parathion	10	U H	10	1.7	ug/L		04/25/13 07:41	04/25/13 17:17	1
Famphur	10	U H	10	1.5	ug/L		04/25/13 07:41	04/25/13 17:17	1
Fluoranthene	1.0	U H	1.0	0.32	ug/L		04/25/13 07:41	04/25/13 17:17	1
Fluorene	1.0	U H	1.0	0.38	ug/L		04/25/13 07:41	04/25/13 17:17	1
Hexachlorobenzene	0.50	U H	0.50	0.14	ug/L		04/25/13 07:41	04/25/13 17:17	1
Hexachlorobutadiene	5.0	U H	5.0	1.1	ug/L		04/25/13 07:41	04/25/13 17:17	1
Hexachlorocyclopentadiene	20	U H	20	3.4	ug/L		04/25/13 07:41	04/25/13 17:17	1
Hexachloroethane	5.0	U H	5.0	0.97	ug/L		04/25/13 07:41	04/25/13 17:17	1
Hexachlorophene	100	U H	100	52	ug/L		04/25/13 07:41	04/25/13 17:17	1
Hexachloropropene	20	U H	20	3.0	ug/L		04/25/13 07:41	04/25/13 17:17	1
Indeno[1,2,3-cd]pyrene	0.20	U H	0.20	0.084	ug/L		04/25/13 07:41	04/25/13 17:17	1
Isophorone	2.0	U H	2.0	0.29	ug/L		04/25/13 07:41	04/25/13 17:17	1
Isosafrole	5.0	U H	5.0	1.7	ug/L		04/25/13 07:41	04/25/13 17:17	1
Malathion	10	U H	10	1.6	ug/L		04/25/13 07:41	04/25/13 17:17	1
m-Dinitrobenzene	5.0	U H	5.0	1.9	ug/L		04/25/13 07:41	04/25/13 17:17	1
Methapyrilene	40	U H	40	6.5	ug/L		04/25/13 07:41	04/25/13 17:17	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89352-1
SDG: AGL89352

Client Sample ID: DDMW-3-20130415-01
Date Collected: 04/15/13 11:30
Date Received: 04/15/13 16:00

Lab Sample ID: 680-89352-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Methylcholanthrene	5.0	U H	5.0	0.98	ug/L		04/25/13 07:41	04/25/13 17:17	1
Methyl methanesulfonate	5.0	U H	5.0	1.8	ug/L		04/25/13 07:41	04/25/13 17:17	1
2-Methylnaphthalene	0.50	U H	0.50	0.13	ug/L		04/25/13 07:41	04/25/13 17:17	1
Methyl parathion	10	U H	10	1.6	ug/L		04/25/13 07:41	04/25/13 17:17	1
2-Methylphenol	2.0	U H	2.0	0.31	ug/L		04/25/13 07:41	04/25/13 17:17	1
3 & 4 Methylphenol	2.0	U H ^	2.0	0.44	ug/L		04/25/13 07:41	04/25/13 17:17	1
Naphthalene	1.0	U H	1.0	0.30	ug/L		04/25/13 07:41	04/25/13 17:17	1
1,4-Naphthoquinone	10	U H	10	1.7	ug/L		04/25/13 07:41	04/25/13 17:17	1
1-Naphthylamine	10	U H	10	1.4	ug/L		04/25/13 07:41	04/25/13 17:17	1
2-Naphthylamine	10	U H	10	1.4	ug/L		04/25/13 07:41	04/25/13 17:17	1
2-Nitroaniline	5.0	U H	5.0	1.1	ug/L		04/25/13 07:41	04/25/13 17:17	1
3-Nitroaniline	10	U H	10	2.3	ug/L		04/25/13 07:41	04/25/13 17:17	1
4-Nitroaniline	10	U H	10	3.9	ug/L		04/25/13 07:41	04/25/13 17:17	1
Nitrobenzene	1.0	U H	1.0	0.45	ug/L		04/25/13 07:41	04/25/13 17:17	1
5-Nitro-o-toluidine	5.0	U H	5.0	1.5	ug/L		04/25/13 07:41	04/25/13 17:17	1
2-Nitrophenol	10	U H	10	2.1	ug/L		04/25/13 07:41	04/25/13 17:17	1
4-Nitrophenol	20	U H	20	2.3	ug/L		04/25/13 07:41	04/25/13 17:17	1
4-Nitroquinoline-1-oxide	20	U H	20	12	ug/L		04/25/13 07:41	04/25/13 17:17	1
N-Nitrosodiethylamine	5.0	U H	5.0	1.1	ug/L		04/25/13 07:41	04/25/13 17:17	1
N-Nitrosodimethylamine	10	U H	10	1.4	ug/L		04/25/13 07:41	04/25/13 17:17	1
N-Nitrosodi-n-butylamine	5.0	U H	5.0	0.98	ug/L		04/25/13 07:41	04/25/13 17:17	1
N-Nitrosodi-n-propylamine	0.50	U H	0.50	0.14	ug/L		04/25/13 07:41	04/25/13 17:17	1
N-Nitrosodiphenylamine	1.0	U H	1.0	0.34	ug/L		04/25/13 07:41	04/25/13 17:17	1
N-Nitrosomethylethylamine	5.0	U H	5.0	1.1	ug/L		04/25/13 07:41	04/25/13 17:17	1
N-Nitrosomorpholine	5.0	U H	5.0	2.4	ug/L		04/25/13 07:41	04/25/13 17:17	1
N-Nitrosopiperidine	5.0	U H	5.0	0.81	ug/L		04/25/13 07:41	04/25/13 17:17	1
N-Nitrosopyrrolidine	5.0	U H	5.0	0.79	ug/L		04/25/13 07:41	04/25/13 17:17	1
o,o',o''-Triethylphosphorothioate	10	U H	10	1.5	ug/L		04/25/13 07:41	04/25/13 17:17	1
o-Toluidine	5.0	U H	5.0	1.6	ug/L		04/25/13 07:41	04/25/13 17:17	1
2,2'-oxybis[1-chloropropane]	2.0	U H	2.0	0.30	ug/L		04/25/13 07:41	04/25/13 17:17	1
p-Dimethylamino azobenzene	5.0	U H	5.0	1.2	ug/L		04/25/13 07:41	04/25/13 17:17	1
Pentachlorobenzene	5.0	U H	5.0	1.1	ug/L		04/25/13 07:41	04/25/13 17:17	1
Pentachloronitrobenzene	5.0	U H	5.0	1.7	ug/L		04/25/13 07:41	04/25/13 17:17	1
Pentachlorophenol	20	U H	20	5.6	ug/L		04/25/13 07:41	04/25/13 17:17	1
Phenacetin	5.0	U H	5.0	1.8	ug/L		04/25/13 07:41	04/25/13 17:17	1
Phenanthrene	1.0	U H	1.0	0.35	ug/L		04/25/13 07:41	04/25/13 17:17	1
Phenol	5.0	U H ^	5.0	0.36	ug/L		04/25/13 07:41	04/25/13 17:17	1
Phorate	10	U H	10	1.5	ug/L		04/25/13 07:41	04/25/13 17:17	1
2-Picoline	10	U H	10	1.3	ug/L		04/25/13 07:41	04/25/13 17:17	1
p-Phenylene diamine	40	U H	40	20	ug/L		04/25/13 07:41	04/25/13 17:17	1
Pronamide	10	U H	10	1.1	ug/L		04/25/13 07:41	04/25/13 17:17	1
Pyrene	1.0	U H	1.0	0.48	ug/L		04/25/13 07:41	04/25/13 17:17	1
Pyridine	20	U H	20	7.2	ug/L		04/25/13 07:41	04/25/13 17:17	1
Safrole	5.0	U H	5.0	1.9	ug/L		04/25/13 07:41	04/25/13 17:17	1
Sulfotepp	10	U H	10	1.1	ug/L		04/25/13 07:41	04/25/13 17:17	1
sym-Trinitrobenzene	5.0	U H	5.0	2.3	ug/L		04/25/13 07:41	04/25/13 17:17	1
1,2,4,5-Tetrachlorobenzene	5.0	U H	5.0	1.2	ug/L		04/25/13 07:41	04/25/13 17:17	1
2,3,4,6-Tetrachlorophenol	5.0	U H	5.0	1.5	ug/L		04/25/13 07:41	04/25/13 17:17	1
Thionazin	10	U H	10	1.8	ug/L		04/25/13 07:41	04/25/13 17:17	1

Client Sample ID: DDMW-3-20130415-01
Date Collected: 04/15/13 11:30
Date Received: 04/15/13 16:00

Lab Sample ID: 680-89352-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	2.0	U H	2.0	0.30	ug/L		04/25/13 07:41	04/25/13 17:17	1
2,4,5-Trichlorophenol	10	U H	10	2.3	ug/L		04/25/13 07:41	04/25/13 17:17	1
2,4,6-Trichlorophenol	5.0	U H	5.0	1.1	ug/L		04/25/13 07:41	04/25/13 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*48 - 110*	*04/25/13 07:41*	*04/25/13 17:17*	*1*
2-Fluorophenol	*39*		*20 - 100*	*04/25/13 07:41*	*04/25/13 17:17*	*1*
Nitrobenzene-d5	*66*		*41 - 110*	*04/25/13 07:41*	*04/25/13 17:17*	*1*
Phenol-d5	*26*		*20 - 100*	*04/25/13 07:41*	*04/25/13 17:17*	*1*
Terphenyl-d14	*94*		*44 - 132*	*04/25/13 07:41*	*04/25/13 17:17*	*1*
2,4,6-Tribromophenol	*88*		*50 - 129*	*04/25/13 07:41*	*04/25/13 17:17*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0059	ug/L		04/18/13 07:39	04/18/13 21:03	1
alpha-BHC	0.050	U	0.050	0.0071	ug/L		04/18/13 07:39	04/18/13 21:03	1
beta-BHC	0.050	U	0.050	0.0077	ug/L		04/18/13 07:39	04/18/13 21:03	1
Chlordane (technical)	0.10	U	0.10	0.038	ug/L		04/18/13 07:39	04/18/13 21:03	1
4,4'-DDD	0.050	U	0.050	0.0049	ug/L		04/18/13 07:39	04/18/13 21:03	1
4,4'-DDE	0.050	U	0.050	0.0044	ug/L		04/18/13 07:39	04/18/13 21:03	1
4,4'-DDT	0.050	U	0.050	0.011	ug/L		04/18/13 07:39	04/18/13 21:03	1
delta-BHC	0.050	U	0.050	0.0030	ug/L		04/18/13 07:39	04/18/13 21:03	1
Dieldrin	0.050	U	0.050	0.0033	ug/L		04/18/13 07:39	04/18/13 21:03	1
Endosulfan I	0.050	U	0.050	0.0030	ug/L		04/18/13 07:39	04/18/13 21:03	1
Endosulfan II	0.050	U	0.050	0.0058	ug/L		04/18/13 07:39	04/18/13 21:03	1
Endosulfan sulfate	0.050	U	0.050	0.0083	ug/L		04/18/13 07:39	04/18/13 21:03	1
Endrin	0.050	U	0.050	0.0085	ug/L		04/18/13 07:39	04/18/13 21:03	1
Endrin aldehyde	0.050	U	0.050	0.0092	ug/L		04/18/13 07:39	04/18/13 21:03	1
Endrin ketone	0.050	U	0.050	0.0088	ug/L		04/18/13 07:39	04/18/13 21:03	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0031	ug/L		04/18/13 07:39	04/18/13 21:03	1
Heptachlor	0.050	U *	0.050	0.0082	ug/L		04/18/13 07:39	04/18/13 21:03	1
Heptachlor epoxide	0.050	U	0.050	0.010	ug/L		04/18/13 07:39	04/18/13 21:03	1
Isodrin	0.050	U	0.050	0.015	ug/L		04/18/13 07:39	04/18/13 21:03	1
Methoxychlor	0.10	U	0.10	0.014	ug/L		04/18/13 07:39	04/18/13 21:03	1
Toxaphene	0.50	U	0.50	0.15	ug/L		04/18/13 07:39	04/18/13 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*93*		*30 - 131*	*04/18/13 07:39*	*04/18/13 21:03*	*1*
Tetrachloro-m-xylene	*88*		*44 - 120*	*04/18/13 07:39*	*04/18/13 21:03*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.50	U	0.50	0.16	ug/L		04/18/13 07:39	04/19/13 09:47	1
PCB-1221	0.50	U	0.50	0.24	ug/L		04/18/13 07:39	04/19/13 09:47	1
PCB-1232	0.50	U	0.50	0.087	ug/L		04/18/13 07:39	04/19/13 09:47	1
PCB-1242	0.50	U	0.50	0.12	ug/L		04/18/13 07:39	04/19/13 09:47	1
PCB-1248	0.50	U	0.50	0.10	ug/L		04/18/13 07:39	04/19/13 09:47	1
PCB-1254	0.50	U	0.50	0.10	ug/L		04/18/13 07:39	04/19/13 09:47	1
PCB-1260	0.50	U	0.50	0.11	ug/L		04/18/13 07:39	04/19/13 09:47	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89352-1
SDG: AGL89352

Client Sample ID: DDMW-3-20130415-01
Date Collected: 04/15/13 11:30
Date Received: 04/15/13 16:00

Lab Sample ID: 680-89352-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*88*		*50 - 120*	*04/18/13 07:39*	*04/19/13 09:47*	*1*
DCB Decachlorobiphenyl	*89*		*29 - 126*	*04/18/13 07:39*	*04/19/13 09:47*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	2.0	U	2.0	0.38	ug/L		04/18/13 18:17	04/22/13 12:40	1
Azinphos-methyl	1.0	U	1.0	0.33	ug/L		04/18/13 18:17	04/22/13 12:40	1
Bolstar	1.0	U	1.0	0.095	ug/L		04/18/13 18:17	04/22/13 12:40	1
Carbophenthion	1.0	U	1.0	0.086	ug/L		04/18/13 18:17	04/22/13 12:40	1
Chlorpyrifos	1.0	U	1.0	0.11	ug/L		04/18/13 18:17	04/22/13 12:40	1
Chlorpyrifos-methyl	1.0	U	1.0	0.083	ug/L		04/18/13 18:17	04/22/13 12:40	1
Coumaphos	1.0	U	1.0	0.081	ug/L		04/18/13 18:17	04/22/13 12:40	1
Demeton, Total	2.5	U	2.5	0.15	ug/L		04/18/13 18:17	04/22/13 12:40	1
Demeton-O	2.5	U	2.5	0.11	ug/L		04/18/13 18:17	04/22/13 12:40	1
Demeton-S	2.5	U	2.5	0.060	ug/L		04/18/13 18:17	04/22/13 12:40	1
Diazinon	1.0	U	1.0	0.11	ug/L		04/18/13 18:17	04/22/13 12:40	1
Dichlofenthion	1.0	U	1.0	0.14	ug/L		04/18/13 18:17	04/22/13 12:40	1
Dichlorvos	2.0	U	2.0	0.26	ug/L		04/18/13 18:17	04/22/13 12:40	1
Dimethoate	2.0	U	2.0	0.32	ug/L		04/18/13 18:17	04/22/13 12:40	1
Disulfoton	2.0	U	2.0	0.12	ug/L		04/18/13 18:17	04/22/13 12:40	1
EPN	1.0	U	1.0	0.071	ug/L		04/18/13 18:17	04/22/13 12:40	1
Ethion	0.50	U	0.50	0.11	ug/L		04/18/13 18:17	04/22/13 12:40	1
Famphur	2.0	U	2.0	0.11	ug/L		04/18/13 18:17	04/22/13 12:40	1
Fensulfothion	5.0	U	5.0	0.17	ug/L		04/18/13 18:17	04/22/13 12:40	1
Fenthion	1.0	U	1.0	0.11	ug/L		04/18/13 18:17	04/22/13 12:40	1
Malathion	1.0	U	1.0	0.092	ug/L		04/18/13 18:17	04/22/13 12:40	1
Merphos	1.0	U	1.0	0.13	ug/L		04/18/13 18:17	04/22/13 12:40	1
Methyl parathion	0.50	U	0.50	0.12	ug/L		04/18/13 18:17	04/22/13 12:40	1
Mevinphos	2.0	U	2.0	0.15	ug/L		04/18/13 18:17	04/22/13 12:40	1
Ethoprop	0.50	U	0.50	0.41	ug/L		04/18/13 18:17	04/22/13 12:40	1
Monochrotophos	10	U	10	2.6	ug/L		04/18/13 18:17	04/22/13 12:40	1
Naled	5.0	U	5.0	0.36	ug/L		04/18/13 18:17	04/22/13 12:40	1
Ethyl Parathion	1.0	U	1.0	0.080	ug/L		04/18/13 18:17	04/22/13 12:40	1
Phorate	1.0	U	1.0	0.16	ug/L		04/18/13 18:17	04/22/13 12:40	1
Ronnel	1.0	U	1.0	0.13	ug/L		04/18/13 18:17	04/22/13 12:40	1
Simazine	2.0	U	2.0	0.37	ug/L		04/18/13 18:17	04/22/13 12:40	1
Stirophos (Tetrachlorvinphos)	1.0	U	1.0	0.084	ug/L		04/18/13 18:17	04/22/13 12:40	1
Sulfotepp	0.50	U	0.50	0.055	ug/L		04/18/13 18:17	04/22/13 12:40	1
Terbufos	1.0	U	1.0	0.082	ug/L		04/18/13 18:17	04/22/13 12:40	1
Thionazin	1.0	U	1.0	0.061	ug/L		04/18/13 18:17	04/22/13 12:40	1
Tokuthion	1.0	U	1.0	0.087	ug/L		04/18/13 18:17	04/22/13 12:40	1
Trichloronate	1.0	U	1.0	0.11	ug/L		04/18/13 18:17	04/22/13 12:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate (TPP)	*94*		*37 - 139*	*04/18/13 18:17*	*04/22/13 12:40*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**56**	**J**	100	50	ug/L		04/18/13 09:16	04/21/13 10:40	1
Antimony	5.0	U	5.0	2.0	ug/L		04/18/13 09:16	04/21/13 10:40	1
Arsenic	2.5	U	2.5	1.3	ug/L		04/18/13 09:16	04/21/13 10:40	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89352-1
SDG: AGL89352

Client Sample ID: DDMW-3-20130415-01
Date Collected: 04/15/13 11:30
Date Received: 04/15/13 16:00

Lab Sample ID: 680-89352-1
Matrix: Water

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**36**		5.0	1.4	ug/L		04/18/13 09:16	04/21/13 10:40	1
Beryllium	0.50	U	0.50	0.15	ug/L		04/18/13 09:16	04/21/13 10:40	1
Cadmium	0.50	U	0.50	0.13	ug/L		04/18/13 09:16	04/21/13 10:40	1
Calcium	**42000**		500	170	ug/L		04/18/13 09:16	04/21/13 10:40	1
Chromium	5.0	U	5.0	2.5	ug/L		04/18/13 09:16	04/21/13 10:40	1
Cobalt	**2.8**		0.50	0.12	ug/L		04/18/13 09:16	04/21/13 10:40	1
Copper	5.0	U	5.0	1.1	ug/L		04/18/13 09:16	04/21/13 10:40	1
Iron	100	U	100	44	ug/L		04/22/13 16:33	04/25/13 14:59	1
Lead	**0.56**	**J**	1.5	0.50	ug/L		04/18/13 09:16	04/21/13 10:40	1
Magnesium	**8100**		250	100	ug/L		04/18/13 09:16	04/21/13 10:40	1
Manganese	**150**		5.0	2.0	ug/L		04/18/13 09:16	04/21/13 10:40	1
Nickel	5.0	U	5.0	2.0	ug/L		04/18/13 09:16	04/21/13 10:40	1
Potassium	**11000**		1000	330	ug/L		04/18/13 09:16	04/21/13 10:40	1
Selenium	**2.3**	**J**	2.5	1.1	ug/L		04/18/13 09:16	04/21/13 10:40	1
Silver	1.0	U	1.0	0.18	ug/L		04/22/13 16:33	04/25/13 14:59	1
Sodium	**22000**		500	170	ug/L		04/18/13 09:16	04/21/13 10:40	1
Thallium	**0.30**	**J**	1.0	0.25	ug/L		04/18/13 09:16	04/21/13 10:40	1
Vanadium	10	U	10	3.2	ug/L		04/18/13 09:16	04/21/13 10:40	1
Zinc	**14**	**J**	20	8.4	ug/L		04/18/13 09:16	04/21/13 10:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		04/16/13 12:37	04/17/13 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	10	U	10	3.0	ug/L			04/16/13 09:31	1
Cyanide, Total	10	U	10	5.0	ug/L		04/19/13 07:15	04/19/13 13:27	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89352-1
SDG: AGL89352

Client Sample ID: DDMW-4-20130415-01
Date Collected: 04/15/13 13:00
Date Received: 04/15/13 16:00

Lab Sample ID: 680-89352-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**8.5**	**J**	25	5.0	ug/L			04/24/13 17:36	1
Benzene	1.0	U	1.0	0.25	ug/L			04/24/13 17:36	1
Bromobenzene	1.0	U	1.0	0.16	ug/L			04/24/13 17:36	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			04/24/13 17:36	1
Bromodichloromethane	**1.1**		1.0	0.25	ug/L			04/24/13 17:36	1
Bromoform	1.0	U	1.0	0.50	ug/L			04/24/13 17:36	1
Bromomethane	1.0	U	1.0	0.80	ug/L			04/24/13 17:36	1
2-Butanone	10	U	10	1.0	ug/L			04/24/13 17:36	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			04/24/13 17:36	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			04/24/13 17:36	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/24/13 17:36	1
Chloroethane	1.0	U	1.0	1.0	ug/L			04/24/13 17:36	1
Chloroform	**4.9**		1.0	0.14	ug/L			04/24/13 17:36	1
Chloromethane	1.0	U	1.0	0.33	ug/L			04/24/13 17:36	1
Chloroprene	1.0	U	1.0	0.30	ug/L			04/24/13 17:36	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/L			04/24/13 17:36	1
4-Chlorotoluene	1.0	U	1.0	0.27	ug/L			04/24/13 17:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			04/24/13 17:36	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			04/24/13 17:36	1
Cyclohexane	1.0	U	1.0	0.25	ug/L			04/24/13 17:36	1
Dibromochloromethane	**0.55**	**J**	1.0	0.10	ug/L			04/24/13 17:36	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			04/24/13 17:36	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			04/24/13 17:36	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			04/24/13 17:36	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			04/24/13 17:36	1
1,3-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/24/13 17:36	1
1,4-Dichlorobenzene	1.0	U	1.0	0.28	ug/L			04/24/13 17:36	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			04/24/13 17:36	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/24/13 17:36	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			04/24/13 17:36	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			04/24/13 17:36	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			04/24/13 17:36	1
1,3-Dichloropropane	1.0	U	1.0	0.13	ug/L			04/24/13 17:36	1
2,2-Dichloropropane	1.0	U	1.0	0.12	ug/L			04/24/13 17:36	1
1,1-Dichloropropene	1.0	U	1.0	0.25	ug/L			04/24/13 17:36	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			04/24/13 17:36	1
Hexachlorobutadiene	1.0	U	1.0	0.40	ug/L			04/24/13 17:36	1
2-Hexanone	10	U	10	1.0	ug/L			04/24/13 17:36	1
Isopropylbenzene	1.0	U	1.0	0.10	ug/L			04/24/13 17:36	1
Methyl acetate	1.0	U	1.0	0.19	ug/L			04/24/13 17:36	1
Methylcyclohexane	1.0	U	1.0	0.10	ug/L			04/24/13 17:36	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			04/24/13 17:36	1
4-Methyl-2-pentanone	10	U	10	1.0	ug/L			04/24/13 17:36	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			04/24/13 17:36	1
Naphthalene	5.0	U	5.0	1.0	ug/L			04/24/13 17:36	1
n-Butylbenzene	1.0	U	1.0	0.10	ug/L			04/24/13 17:36	1
N-Propylbenzene	1.0	U	1.0	0.15	ug/L			04/24/13 17:36	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			04/24/13 17:36	1
sec-Butylbenzene	1.0	U	1.0	0.16	ug/L			04/24/13 17:36	1

Client Sample ID: DDMW-4-20130415-01
Date Collected: 04/15/13 13:00
Date Received: 04/15/13 16:00

Lab Sample ID: 680-89352-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U	1.0	0.11	ug/L			04/24/13 17:36	1
tert-Butylbenzene	1.0	U	1.0	0.12	ug/L			04/24/13 17:36	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			04/24/13 17:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			04/24/13 17:36	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			04/24/13 17:36	1
Toluene	1.0	U	1.0	0.33	ug/L			04/24/13 17:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			04/24/13 17:36	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			04/24/13 17:36	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			04/24/13 17:36	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.25	ug/L			04/24/13 17:36	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			04/24/13 17:36	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			04/24/13 17:36	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			04/24/13 17:36	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			04/24/13 17:36	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			04/24/13 17:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			04/24/13 17:36	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			04/24/13 17:36	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			04/24/13 17:36	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			04/24/13 17:36	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			04/24/13 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*70 - 130*		*04/24/13 17:36*	*1*
Dibromofluoromethane	*91*		*70 - 130*		*04/24/13 17:36*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/24/13 17:36*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.1	U	1.1	0.38	ug/L		04/18/13 08:47	04/24/13 18:33	1
Acenaphthylene	1.1	U	1.1	0.34	ug/L		04/18/13 08:47	04/24/13 18:33	1
Acetophenone	5.3	U	5.3	0.86	ug/L		04/18/13 08:47	04/24/13 18:33	1
2-Acetylaminofluorene	5.3	U	5.3	1.0	ug/L		04/18/13 08:47	04/24/13 18:33	1
alpha,alpha-Dimethyl phenethylamine	42	U	42	9.1	ug/L		04/18/13 08:47	04/24/13 18:33	1
4-Aminobiphenyl	11	U	11	1.3	ug/L		04/18/13 08:47	04/24/13 18:33	1
Aniline	21	U	21	3.7	ug/L		04/18/13 08:47	04/24/13 18:33	1
Anthracene	1.1	U	1.1	0.34	ug/L		04/18/13 08:47	04/24/13 18:33	1
Aramite	5.3	U	5.3	1.4	ug/L		04/18/13 08:47	04/24/13 18:33	1
Benzenethiol	21	U	21	11	ug/L		04/18/13 08:47	04/24/13 18:33	1
Benzidine	42	U	42	21	ug/L		04/18/13 08:47	04/24/13 18:33	1
Benzo[a]anthracene	0.21	U	0.21	0.047	ug/L		04/18/13 08:47	04/24/13 18:33	1
Benzo[a]pyrene	0.21	U	0.21	0.059	ug/L		04/18/13 08:47	04/24/13 18:33	1
Benzo[b]fluoranthene	0.21	U	0.21	0.062	ug/L		04/18/13 08:47	04/24/13 18:33	1
Benzo[g,h,i]perylene	1.1	U	1.1	0.45	ug/L		04/18/13 08:47	04/24/13 18:33	1
Benzoic acid	21	U ^ *	21	4.8	ug/L		04/18/13 08:47	04/24/13 18:33	1
Benzo[k]fluoranthene	0.21	U	0.21	0.078	ug/L		04/18/13 08:47	04/24/13 18:33	1
Benzyl alcohol	21	U	21	3.2	ug/L		04/18/13 08:47	04/24/13 18:33	1
Bis(2-chloroethoxy)methane	2.1	U	2.1	0.32	ug/L		04/18/13 08:47	04/24/13 18:33	1
Bis(2-chloroethyl)ether	2.1	U	2.1	0.37	ug/L		04/18/13 08:47	04/24/13 18:33	1
Bis(2-ethylhexyl) phthalate	11	U	11	2.6	ug/L		04/18/13 08:47	04/24/13 18:33	1
4-Bromophenyl phenyl ether	5.3	U	5.3	0.97	ug/L		04/18/13 08:47	04/24/13 18:33	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89352-1
SDG: AGL89352

Client Sample ID: DDMW-4-20130415-01
Date Collected: 04/15/13 13:00
Date Received: 04/15/13 16:00

Lab Sample ID: 680-89352-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	2.1	U	2.1	0.29	ug/L		04/18/13 08:47	04/24/13 18:33	1
Carbofuran	11	U	11	1.5	ug/L		04/18/13 08:47	04/24/13 18:33	1
4-Chloroaniline	11	U ^	11	2.2	ug/L		04/18/13 08:47	04/24/13 18:33	1
4-Chloro-3-methylphenol	11	U	11	2.3	ug/L		04/18/13 08:47	04/24/13 18:33	1
1-Chloronaphthalene	2.1	U	2.1	2.1	ug/L		04/18/13 08:47	04/24/13 18:33	1
2-Chloronaphthalene	2.1	U	2.1	0.36	ug/L		04/18/13 08:47	04/24/13 18:33	1
2-Chlorophenol	5.3	U	5.3	0.85	ug/L		04/18/13 08:47	04/24/13 18:33	1
4-Chlorophenyl phenyl ether	5.3	U	5.3	0.86	ug/L		04/18/13 08:47	04/24/13 18:33	1
Chrysene	0.53	U	0.53	0.15	ug/L		04/18/13 08:47	04/24/13 18:33	1
Diallate	5.3	U	5.3	2.4	ug/L		04/18/13 08:47	04/24/13 18:33	1
Dibenz(a,h)anthracene	0.32	U	0.32	0.068	ug/L		04/18/13 08:47	04/24/13 18:33	1
Dibenz[a,j]acridine	5.3	U	5.3	1.4	ug/L		04/18/13 08:47	04/24/13 18:33	1
Dibenzofuran	2.1	U	2.1	0.37	ug/L		04/18/13 08:47	04/24/13 18:33	1
1,2-Dichlorobenzene	2.1	U	2.1	0.31	ug/L		04/18/13 08:47	04/24/13 18:33	1
1,3-Dichlorobenzene	2.1	U	2.1	0.27	ug/L		04/18/13 08:47	04/24/13 18:33	1
1,4-Dichlorobenzene	**1.2**	**J**	2.1	0.29	ug/L		04/18/13 08:47	04/24/13 18:33	1
3,3'-Dichlorobenzidine	5.3	U	5.3	1.0	ug/L		04/18/13 08:47	04/24/13 18:33	1
2,4-Dichlorophenol	11	U	11	2.4	ug/L		04/18/13 08:47	04/24/13 18:33	1
2,6-Dichlorophenol	5.3	U	5.3	0.90	ug/L		04/18/13 08:47	04/24/13 18:33	1
Diethyl phthalate	2.1	U	2.1	0.47	ug/L		04/18/13 08:47	04/24/13 18:33	1
Diethylstilbestrol	21	U	21	2.2	ug/L		04/18/13 08:47	04/24/13 18:33	1
Dimethoate	11	U	11	1.6	ug/L		04/18/13 08:47	04/24/13 18:33	1
7,12-Dimethylbenz(a)anthracene	5.3	U	5.3	2.3	ug/L		04/18/13 08:47	04/24/13 18:33	1
3,3'-Dimethylbenzidine	21	U	21	9.6	ug/L		04/18/13 08:47	04/24/13 18:33	1
2,4-Dimethylphenol	11	U	11	3.5	ug/L		04/18/13 08:47	04/24/13 18:33	1
Dimethyl phthalate	2.1	U	2.1	0.40	ug/L		04/18/13 08:47	04/24/13 18:33	1
Di-n-butyl phthalate	5.3	U	5.3	0.85	ug/L		04/18/13 08:47	04/24/13 18:33	1
1,4-Dinitrobenzene	5.3	U	5.3	2.1	ug/L		04/18/13 08:47	04/24/13 18:33	1
4,6-Dinitro-2-methylphenol	21	U	21	5.2	ug/L		04/18/13 08:47	04/24/13 18:33	1
2,4-Dinitrophenol	21	U	21	7.9	ug/L		04/18/13 08:47	04/24/13 18:33	1
2,4-Dinitrotoluene	1.1	U	1.1	0.32	ug/L		04/18/13 08:47	04/24/13 18:33	1
2,6-Dinitrotoluene	0.53	U	0.53	0.13	ug/L		04/18/13 08:47	04/24/13 18:33	1
Di-n-octyl phthalate	11	U	11	2.6	ug/L		04/18/13 08:47	04/24/13 18:33	1
Dinoseb	11	U	11	3.4	ug/L		04/18/13 08:47	04/24/13 18:33	1
1,4-Dioxane	21	U	21	7.3	ug/L		04/18/13 08:47	04/24/13 18:33	1
Diphenylamine	5.3	U	5.3	1.8	ug/L		04/18/13 08:47	04/24/13 18:33	1
1,2-Diphenylhydrazine	5.3	U	5.3	0.74	ug/L		04/18/13 08:47	04/24/13 18:33	1
Disulfoton	11	U	11	1.5	ug/L		04/18/13 08:47	04/24/13 18:33	1
Ethyl 4,4'-Dichlorobenzilate	5.3	U	5.3	1.4	ug/L		04/18/13 08:47	04/24/13 18:33	1
Ethyl methanesulfonate	5.3	U	5.3	2.1	ug/L		04/18/13 08:47	04/24/13 18:33	1
Ethyl Parathion	11	U	11	1.8	ug/L		04/18/13 08:47	04/24/13 18:33	1
Famphur	11	U	11	1.6	ug/L		04/18/13 08:47	04/24/13 18:33	1
Fluoranthene	1.1	U	1.1	0.34	ug/L		04/18/13 08:47	04/24/13 18:33	1
Fluorene	1.1	U	1.1	0.40	ug/L		04/18/13 08:47	04/24/13 18:33	1
Hexachlorobenzene	0.53	U	0.53	0.15	ug/L		04/18/13 08:47	04/24/13 18:33	1
Hexachlorobutadiene	5.3	U	5.3	1.2	ug/L		04/18/13 08:47	04/24/13 18:33	1
Hexachlorocyclopentadiene	21	U	21	3.6	ug/L		04/18/13 08:47	04/24/13 18:33	1
Hexachloroethane	5.3	U	5.3	1.0	ug/L		04/18/13 08:47	04/24/13 18:33	1
Hexachlorophene	110	U	110	55	ug/L		04/18/13 08:47	04/24/13 18:33	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89352-1
SDG: AGL89352

Client Sample ID: DDMW-4-20130415-01
Date Collected: 04/15/13 13:00
Date Received: 04/15/13 16:00

Lab Sample ID: 680-89352-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloropropene	21	U	21	3.2	ug/L		04/18/13 08:47	04/24/13 18:33	1
Indeno[1,2,3-cd]pyrene	0.21	U	0.21	0.089	ug/L		04/18/13 08:47	04/24/13 18:33	1
Isophorone	2.1	U	2.1	0.31	ug/L		04/18/13 08:47	04/24/13 18:33	1
Isosafrole	5.3	U	5.3	1.9	ug/L		04/18/13 08:47	04/24/13 18:33	1
Malathion	11	U	11	1.8	ug/L		04/18/13 08:47	04/24/13 18:33	1
m-Dinitrobenzene	5.3	U	5.3	2.0	ug/L		04/18/13 08:47	04/24/13 18:33	1
Methapyrilene	42	U	42	6.9	ug/L		04/18/13 08:47	04/24/13 18:33	1
3-Methylcholanthrene	5.3	U	5.3	1.0	ug/L		04/18/13 08:47	04/24/13 18:33	1
Methyl methanesulfonate	5.3	U	5.3	1.9	ug/L		04/18/13 08:47	04/24/13 18:33	1
2-Methylnaphthalene	0.53	U	0.53	0.14	ug/L		04/18/13 08:47	04/24/13 18:33	1
Methyl parathion	11	U	11	1.7	ug/L		04/18/13 08:47	04/24/13 18:33	1
2-Methylphenol	2.1	U	2.1	0.33	ug/L		04/18/13 08:47	04/24/13 18:33	1
3 & 4 Methylphenol	2.1	U ^	2.1	0.47	ug/L		04/18/13 08:47	04/24/13 18:33	1
Naphthalene	1.1	U	1.1	0.32	ug/L		04/18/13 08:47	04/24/13 18:33	1
1,4-Naphthoquinone	11	U	11	1.8	ug/L		04/18/13 08:47	04/24/13 18:33	1
1-Naphthylamine	11	U	11	1.5	ug/L		04/18/13 08:47	04/24/13 18:33	1
2-Naphthylamine	11	U	11	1.5	ug/L		04/18/13 08:47	04/24/13 18:33	1
2-Nitroaniline	5.3	U	5.3	1.1	ug/L		04/18/13 08:47	04/24/13 18:33	1
3-Nitroaniline	11	U	11	2.4	ug/L		04/18/13 08:47	04/24/13 18:33	1
4-Nitroaniline	11	U	11	4.2	ug/L		04/18/13 08:47	04/24/13 18:33	1
Nitrobenzene	1.1	U	1.1	0.48	ug/L		04/18/13 08:47	04/24/13 18:33	1
5-Nitro-o-toluidine	5.3	U	5.3	1.6	ug/L		04/18/13 08:47	04/24/13 18:33	1
2-Nitrophenol	11	U	11	2.3	ug/L		04/18/13 08:47	04/24/13 18:33	1
4-Nitrophenol	21	U	21	2.5	ug/L		04/18/13 08:47	04/24/13 18:33	1
4-Nitroquinoline-1-oxide	21	U	21	13	ug/L		04/18/13 08:47	04/24/13 18:33	1
N-Nitrosodiethylamine	5.3	U	5.3	1.2	ug/L		04/18/13 08:47	04/24/13 18:33	1
N-Nitrosodimethylamine	11	U	11	1.5	ug/L		04/18/13 08:47	04/24/13 18:33	1
N-Nitrosodi-n-butylamine	5.3	U	5.3	1.0	ug/L		04/18/13 08:47	04/24/13 18:33	1
N-Nitrosodi-n-propylamine	0.53	U	0.53	0.15	ug/L		04/18/13 08:47	04/24/13 18:33	1
N-Nitrosodiphenylamine	1.1	U	1.1	0.36	ug/L		04/18/13 08:47	04/24/13 18:33	1
N-Nitrosomethylethylamine	5.3	U	5.3	1.2	ug/L		04/18/13 08:47	04/24/13 18:33	1
N-Nitrosomorpholine	5.3	U	5.3	2.6	ug/L		04/18/13 08:47	04/24/13 18:33	1
N-Nitrosopiperidine	5.3	U	5.3	0.86	ug/L		04/18/13 08:47	04/24/13 18:33	1
N-Nitrosopyrrolidine	5.3	U	5.3	0.84	ug/L		04/18/13 08:47	04/24/13 18:33	1
o,o',o''-Triethylphosphorothioate	11	U	11	1.6	ug/L		04/18/13 08:47	04/24/13 18:33	1
o-Toluidine	5.3	U	5.3	1.7	ug/L		04/18/13 08:47	04/24/13 18:33	1
2,2'-oxybis[1-chloropropane]	2.1	U	2.1	0.32	ug/L		04/18/13 08:47	04/24/13 18:33	1
p-Dimethylamino azobenzene	5.3	U	5.3	1.3	ug/L		04/18/13 08:47	04/24/13 18:33	1
Pentachlorobenzene	5.3	U	5.3	1.1	ug/L		04/18/13 08:47	04/24/13 18:33	1
Pentachloronitrobenzene	5.3	U	5.3	1.8	ug/L		04/18/13 08:47	04/24/13 18:33	1
Pentachlorophenol	21	U	21	5.9	ug/L		04/18/13 08:47	04/24/13 18:33	1
Phenacetin	5.3	U	5.3	1.9	ug/L		04/18/13 08:47	04/24/13 18:33	1
Phenanthrene	1.1	U	1.1	0.37	ug/L		04/18/13 08:47	04/24/13 18:33	1
Phenol	5.3	U ^	5.3	0.38	ug/L		04/18/13 08:47	04/24/13 18:33	1
Phorate	11	U	11	1.6	ug/L		04/18/13 08:47	04/24/13 18:33	1
2-Picoline	11	U	11	1.3	ug/L		04/18/13 08:47	04/24/13 18:33	1
p-Phenylene diamine	42	U	42	21	ug/L		04/18/13 08:47	04/24/13 18:33	1
Pronamide	11	U	11	1.2	ug/L		04/18/13 08:47	04/24/13 18:33	1
Pyrene	1.1	U	1.1	0.51	ug/L		04/18/13 08:47	04/24/13 18:33	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89352-1
SDG: AGL89352

Client Sample ID: DDMW-4-20130415-01
Date Collected: 04/15/13 13:00
Date Received: 04/15/13 16:00

Lab Sample ID: 680-89352-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	21	U	21	7.6	ug/L		04/18/13 08:47	04/24/13 18:33	1
Safrole	5.3	U	5.3	2.0	ug/L		04/18/13 08:47	04/24/13 18:33	1
Sulfotepp	11	U	11	1.2	ug/L		04/18/13 08:47	04/24/13 18:33	1
sym-Trinitrobenzene	5.3	U	5.3	2.4	ug/L		04/18/13 08:47	04/24/13 18:33	1
1,2,4,5-Tetrachlorobenzene	5.3	U	5.3	1.3	ug/L		04/18/13 08:47	04/24/13 18:33	1
2,3,4,6-Tetrachlorophenol	5.3	U	5.3	1.6	ug/L		04/18/13 08:47	04/24/13 18:33	1
Thionazin	11	U	11	1.9	ug/L		04/18/13 08:47	04/24/13 18:33	1
1,2,4-Trichlorobenzene	2.1	U	2.1	0.32	ug/L		04/18/13 08:47	04/24/13 18:33	1
2,4,5-Trichlorophenol	11	U	11	2.4	ug/L		04/18/13 08:47	04/24/13 18:33	1
2,4,6-Trichlorophenol	5.3	U	5.3	1.2	ug/L		04/18/13 08:47	04/24/13 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*50*		*48 - 110*	*04/18/13 08:47*	*04/24/13 18:33*	*1*
2-Fluorophenol	*29*		*20 - 100*	*04/18/13 08:47*	*04/24/13 18:33*	*1*
Nitrobenzene-d5	*39*	*X*	*41 - 110*	*04/18/13 08:47*	*04/24/13 18:33*	*1*
Phenol-d5	*18*	*X*	*20 - 100*	*04/18/13 08:47*	*04/24/13 18:33*	*1*
Terphenyl-d14	*83*		*44 - 132*	*04/18/13 08:47*	*04/24/13 18:33*	*1*
2,4,6-Tribromophenol	*73*		*50 - 129*	*04/18/13 08:47*	*04/24/13 18:33*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.051	U	0.051	0.0061	ug/L		04/18/13 07:39	04/18/13 21:23	1
alpha-BHC	0.051	U	0.051	0.0073	ug/L		04/18/13 07:39	04/18/13 21:23	1
beta-BHC	0.051	U	0.051	0.0078	ug/L		04/18/13 07:39	04/18/13 21:23	1
Chlordane (technical)	0.10	U	0.10	0.039	ug/L		04/18/13 07:39	04/18/13 21:23	1
4,4'-DDD	0.051	U	0.051	0.0049	ug/L		04/18/13 07:39	04/18/13 21:23	1
4,4'-DDE	0.051	U	0.051	0.0044	ug/L		04/18/13 07:39	04/18/13 21:23	1
4,4'-DDT	0.051	U	0.051	0.011	ug/L		04/18/13 07:39	04/18/13 21:23	1
delta-BHC	0.051	U	0.051	0.0030	ug/L		04/18/13 07:39	04/18/13 21:23	1
Dieldrin	0.051	U	0.051	0.0033	ug/L		04/18/13 07:39	04/18/13 21:23	1
Endosulfan I	0.051	U	0.051	0.0031	ug/L		04/18/13 07:39	04/18/13 21:23	1
Endosulfan II	0.051	U	0.051	0.0059	ug/L		04/18/13 07:39	04/18/13 21:23	1
Endosulfan sulfate	0.051	U	0.051	0.0084	ug/L		04/18/13 07:39	04/18/13 21:23	1
Endrin	0.051	U	0.051	0.0087	ug/L		04/18/13 07:39	04/18/13 21:23	1
Endrin aldehyde	0.051	U	0.051	0.0094	ug/L		04/18/13 07:39	04/18/13 21:23	1
Endrin ketone	0.051	U	0.051	0.0090	ug/L		04/18/13 07:39	04/18/13 21:23	1
gamma-BHC (Lindane)	0.051	U	0.051	0.0032	ug/L		04/18/13 07:39	04/18/13 21:23	1
Heptachlor	0.051	U *	0.051	0.0083	ug/L		04/18/13 07:39	04/18/13 21:23	1
Heptachlor epoxide	0.051	U	0.051	0.011	ug/L		04/18/13 07:39	04/18/13 21:23	1
Isodrin	0.051	U	0.051	0.015	ug/L		04/18/13 07:39	04/18/13 21:23	1
Methoxychlor	0.10	U	0.10	0.014	ug/L		04/18/13 07:39	04/18/13 21:23	1
Toxaphene	0.51	U	0.51	0.15	ug/L		04/18/13 07:39	04/18/13 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*101*		*30 - 131*	*04/18/13 07:39*	*04/18/13 21:23*	*1*
Tetrachloro-m-xylene	*86*		*44 - 120*	*04/18/13 07:39*	*04/18/13 21:23*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.51	U	0.51	0.16	ug/L		04/18/13 07:39	04/19/13 10:01	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89352-1
SDG: AGL89352

Client Sample ID: DDMW-4-20130415-01
Date Collected: 04/15/13 13:00
Date Received: 04/15/13 16:00

Lab Sample ID: 680-89352-2
Matrix: Water

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	0.51	U	0.51	0.25	ug/L		04/18/13 07:39	04/19/13 10:01	1
PCB-1232	0.51	U	0.51	0.088	ug/L		04/18/13 07:39	04/19/13 10:01	1
PCB-1242	0.51	U	0.51	0.12	ug/L		04/18/13 07:39	04/19/13 10:01	1
PCB-1248	0.51	U	0.51	0.10	ug/L		04/18/13 07:39	04/19/13 10:01	1
PCB-1254	0.51	U	0.51	0.10	ug/L		04/18/13 07:39	04/19/13 10:01	1
PCB-1260	0.51	U	0.51	0.11	ug/L		04/18/13 07:39	04/19/13 10:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*50 - 120*	*04/18/13 07:39*	*04/19/13 10:01*	*1*
DCB Decachlorobiphenyl	*84*		*29 - 126*	*04/18/13 07:39*	*04/19/13 10:01*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	2.0	U	2.0	0.38	ug/L		04/18/13 18:17	04/22/13 13:25	1
Azinphos-methyl	1.0	U	1.0	0.33	ug/L		04/18/13 18:17	04/22/13 13:25	1
Bolstar	1.0	U	1.0	0.095	ug/L		04/18/13 18:17	04/22/13 13:25	1
Carbophenthion	1.0	U	1.0	0.086	ug/L		04/18/13 18:17	04/22/13 13:25	1
Chlorpyrifos	1.0	U	1.0	0.11	ug/L		04/18/13 18:17	04/22/13 13:25	1
Chlorpyrifos-methyl	1.0	U	1.0	0.083	ug/L		04/18/13 18:17	04/22/13 13:25	1
Coumaphos	1.0	U	1.0	0.081	ug/L		04/18/13 18:17	04/22/13 13:25	1
Demeton, Total	2.5	U	2.5	0.15	ug/L		04/18/13 18:17	04/22/13 13:25	1
Demeton-O	2.5	U	2.5	0.11	ug/L		04/18/13 18:17	04/22/13 13:25	1
Demeton-S	2.5	U	2.5	0.060	ug/L		04/18/13 18:17	04/22/13 13:25	1
Diazinon	1.0	U	1.0	0.11	ug/L		04/18/13 18:17	04/22/13 13:25	1
Dichlofenthion	1.0	U	1.0	0.14	ug/L		04/18/13 18:17	04/22/13 13:25	1
Dichlorvos	2.0	U	2.0	0.26	ug/L		04/18/13 18:17	04/22/13 13:25	1
Dimethoate	2.0	U	2.0	0.32	ug/L		04/18/13 18:17	04/22/13 13:25	1
Disulfoton	2.0	U	2.0	0.12	ug/L		04/18/13 18:17	04/22/13 13:25	1
EPN	1.0	U	1.0	0.071	ug/L		04/18/13 18:17	04/22/13 13:25	1
Ethion	0.50	U	0.50	0.11	ug/L		04/18/13 18:17	04/22/13 13:25	1
Famphur	2.0	U	2.0	0.11	ug/L		04/18/13 18:17	04/22/13 13:25	1
Fensulfothion	5.0	U	5.0	0.17	ug/L		04/18/13 18:17	04/22/13 13:25	1
Fenthion	1.0	U	1.0	0.11	ug/L		04/18/13 18:17	04/22/13 13:25	1
Malathion	1.0	U	1.0	0.092	ug/L		04/18/13 18:17	04/22/13 13:25	1
Merphos	1.0	U	1.0	0.13	ug/L		04/18/13 18:17	04/22/13 13:25	1
Methyl parathion	0.50	U	0.50	0.12	ug/L		04/18/13 18:17	04/22/13 13:25	1
Mevinphos	2.0	U	2.0	0.15	ug/L		04/18/13 18:17	04/22/13 13:25	1
Ethoprop	0.50	U	0.50	0.41	ug/L		04/18/13 18:17	04/22/13 13:25	1
Monochrotophos	10	U	10	2.6	ug/L		04/18/13 18:17	04/22/13 13:25	1
Naled	5.0	U	5.0	0.36	ug/L		04/18/13 18:17	04/22/13 13:25	1
Ethyl Parathion	1.0	U	1.0	0.080	ug/L		04/18/13 18:17	04/22/13 13:25	1
Phorate	1.0	U	1.0	0.16	ug/L		04/18/13 18:17	04/22/13 13:25	1
Ronnel	1.0	U	1.0	0.13	ug/L		04/18/13 18:17	04/22/13 13:25	1
Simazine	2.0	U	2.0	0.37	ug/L		04/18/13 18:17	04/22/13 13:25	1
Stirophos (Tetrachlorvinphos)	1.0	U	1.0	0.084	ug/L		04/18/13 18:17	04/22/13 13:25	1
Sulfotepp	0.50	U	0.50	0.055	ug/L		04/18/13 18:17	04/22/13 13:25	1
Terbufos	1.0	U	1.0	0.082	ug/L		04/18/13 18:17	04/22/13 13:25	1
Thionazin	1.0	U	1.0	0.061	ug/L		04/18/13 18:17	04/22/13 13:25	1
Tokuthion	1.0	U	1.0	0.087	ug/L		04/18/13 18:17	04/22/13 13:25	1
Trichloronate	1.0	U	1.0	0.11	ug/L		04/18/13 18:17	04/22/13 13:25	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89352-1
SDG: AGL89352

Client Sample ID: DDMW-4-20130415-01
Date Collected: 04/15/13 13:00
Date Received: 04/15/13 16:00

Lab Sample ID: 680-89352-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate (TPP)	*92*		*37 - 139*	*04/18/13 18:17*	*04/22/13 13:25*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**280**		100	50	ug/L		04/18/13 09:16	04/21/13 10:47	1
Antimony	5.0	U	5.0	2.0	ug/L		04/18/13 09:16	04/21/13 10:47	1
Arsenic	2.5	U	2.5	1.3	ug/L		04/18/13 09:16	04/21/13 10:47	1
Barium	**570**		5.0	1.4	ug/L		04/18/13 09:16	04/21/13 10:47	1
Beryllium	**0.78**		0.50	0.15	ug/L		04/18/13 09:16	04/21/13 10:47	1
Cadmium	**1.0**		0.50	0.13	ug/L		04/18/13 09:16	04/21/13 10:47	1
Calcium	**11000**		500	170	ug/L		04/18/13 09:16	04/21/13 10:47	1
Chromium	5.0	U	5.0	2.5	ug/L		04/18/13 09:16	04/21/13 10:47	1
Cobalt	**7.4**		0.50	0.12	ug/L		04/18/13 09:16	04/21/13 10:47	1
Copper	**1.7**	**J**	5.0	1.1	ug/L		04/18/13 09:16	04/21/13 10:47	1
Iron	**3800**		100	44	ug/L		04/22/13 16:33	04/25/13 15:06	1
Lead	**1.5**		1.5	0.50	ug/L		04/18/13 09:16	04/21/13 10:47	1
Magnesium	**6000**		250	100	ug/L		04/18/13 09:16	04/21/13 10:47	1
Manganese	**380**		5.0	2.0	ug/L		04/18/13 09:16	04/21/13 10:47	1
Nickel	**6.3**		5.0	2.0	ug/L		04/18/13 09:16	04/21/13 10:47	1
Potassium	**4900**		1000	330	ug/L		04/18/13 09:16	04/21/13 10:47	1
Selenium	2.5	U	2.5	1.1	ug/L		04/18/13 09:16	04/21/13 10:47	1
Silver	1.0	U	1.0	0.18	ug/L		04/22/13 16:33	04/25/13 15:06	1
Sodium	**12000**		500	170	ug/L		04/18/13 09:16	04/21/13 10:47	1
Thallium	1.0	U	1.0	0.25	ug/L		04/18/13 09:16	04/21/13 10:47	1
Vanadium	10	U	10	3.2	ug/L		04/18/13 09:16	04/21/13 10:47	1
Zinc	**40**		20	8.4	ug/L		04/18/13 09:16	04/21/13 10:47	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		04/16/13 12:37	04/17/13 11:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	50	U	50	15	ug/L			04/16/13 09:51	5
Cyanide, Total	10	U	10	5.0	ug/L		04/19/13 07:15	04/19/13 13:28	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89352-1
SDG: AGL89352

Client Sample ID: TB-01-20130415-01
Date Collected: 04/15/13 00:00
Date Received: 04/15/13 16:00

Lab Sample ID: 680-89352-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			04/24/13 16:05	1
Benzene	1.0	U	1.0	0.25	ug/L			04/24/13 16:05	1
Bromobenzene	1.0	U	1.0	0.16	ug/L			04/24/13 16:05	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			04/24/13 16:05	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			04/24/13 16:05	1
Bromoform	1.0	U	1.0	0.50	ug/L			04/24/13 16:05	1
Bromomethane	1.0	U	1.0	0.80	ug/L			04/24/13 16:05	1
2-Butanone	10	U	10	1.0	ug/L			04/24/13 16:05	1
n-Butylbenzene	1.0	U	1.0	0.10	ug/L			04/24/13 16:05	1
sec-Butylbenzene	1.0	U	1.0	0.16	ug/L			04/24/13 16:05	1
tert-Butylbenzene	1.0	U	1.0	0.12	ug/L			04/24/13 16:05	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			04/24/13 16:05	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			04/24/13 16:05	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/24/13 16:05	1
Chloroprene	1.0	U	1.0	0.30	ug/L			04/24/13 16:05	1
Chloroethane	1.0	U	1.0	1.0	ug/L			04/24/13 16:05	1
Chloroform	1.0	U	1.0	0.14	ug/L			04/24/13 16:05	1
Chloromethane	1.0	U	1.0	0.33	ug/L			04/24/13 16:05	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/L			04/24/13 16:05	1
4-Chlorotoluene	1.0	U	1.0	0.27	ug/L			04/24/13 16:05	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			04/24/13 16:05	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			04/24/13 16:05	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			04/24/13 16:05	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			04/24/13 16:05	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			04/24/13 16:05	1
1,3-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/24/13 16:05	1
1,4-Dichlorobenzene	1.0	U	1.0	0.28	ug/L			04/24/13 16:05	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			04/24/13 16:05	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/24/13 16:05	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			04/24/13 16:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			04/24/13 16:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			04/24/13 16:05	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			04/24/13 16:05	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			04/24/13 16:05	1
1,3-Dichloropropane	1.0	U	1.0	0.13	ug/L			04/24/13 16:05	1
2,2-Dichloropropane	1.0	U	1.0	0.12	ug/L			04/24/13 16:05	1
1,1-Dichloropropene	1.0	U	1.0	0.25	ug/L			04/24/13 16:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			04/24/13 16:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			04/24/13 16:05	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			04/24/13 16:05	1
Hexachlorobutadiene	1.0	U	1.0	0.40	ug/L			04/24/13 16:05	1
2-Hexanone	10	U	10	1.0	ug/L			04/24/13 16:05	1
Isopropylbenzene	1.0	U	1.0	0.10	ug/L			04/24/13 16:05	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			04/24/13 16:05	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			04/24/13 16:05	1
4-Methyl-2-pentanone	10	U	10	1.0	ug/L			04/24/13 16:05	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			04/24/13 16:05	1
Naphthalene	5.0	U	5.0	1.0	ug/L			04/24/13 16:05	1
N-Propylbenzene	1.0	U	1.0	0.15	ug/L			04/24/13 16:05	1

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89352-1
SDG: AGL89352

Client Sample ID: TB-01-20130415-01
Date Collected: 04/15/13 00:00
Date Received: 04/15/13 16:00

Lab Sample ID: 680-89352-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U	1.0	0.11	ug/L			04/24/13 16:05	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			04/24/13 16:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			04/24/13 16:05	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			04/24/13 16:05	1
Toluene	1.0	U	1.0	0.33	ug/L			04/24/13 16:05	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			04/24/13 16:05	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.25	ug/L			04/24/13 16:05	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			04/24/13 16:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			04/24/13 16:05	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			04/24/13 16:05	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			04/24/13 16:05	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			04/24/13 16:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			04/24/13 16:05	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			04/24/13 16:05	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			04/24/13 16:05	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			04/24/13 16:05	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			04/24/13 16:05	1
Cyclohexane	1.0	U	1.0	0.25	ug/L			04/24/13 16:05	1
Methyl acetate	1.0	U	1.0	0.19	ug/L			04/24/13 16:05	1
Methylcyclohexane	1.0	U	1.0	0.10	ug/L			04/24/13 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*70 - 130*		*04/24/13 16:05*	*1*
Dibromofluoromethane	*91*		*70 - 130*		*04/24/13 16:05*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/24/13 16:05*	*1*

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

Lab Sample ID: MB 680-274199/7
Matrix: Water
Analysis Batch: 274199

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			04/24/13 12:35	1
Benzene	1.0	U	1.0	0.25	ug/L			04/24/13 12:35	1
Bromobenzene	1.0	U	1.0	0.16	ug/L			04/24/13 12:35	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			04/24/13 12:35	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			04/24/13 12:35	1
Bromoform	1.0	U	1.0	0.50	ug/L			04/24/13 12:35	1
Bromomethane	1.0	U	1.0	0.80	ug/L			04/24/13 12:35	1
2-Butanone	10	U	10	1.0	ug/L			04/24/13 12:35	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			04/24/13 12:35	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			04/24/13 12:35	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/24/13 12:35	1
Chloroethane	1.0	U	1.0	1.0	ug/L			04/24/13 12:35	1
Chloroform	1.0	U	1.0	0.14	ug/L			04/24/13 12:35	1
Chloromethane	1.0	U	1.0	0.33	ug/L			04/24/13 12:35	1
Chloroprene	1.0	U	1.0	0.30	ug/L			04/24/13 12:35	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/L			04/24/13 12:35	1
4-Chlorotoluene	1.0	U	1.0	0.27	ug/L			04/24/13 12:35	1
Dibromochloromethane	1.0	U	1.0	0.10	ug/L			04/24/13 12:35	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			04/24/13 12:35	1
1,2-Dibromoethane	1.0	U	1.0	0.25	ug/L			04/24/13 12:35	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			04/24/13 12:35	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			04/24/13 12:35	1
1,3-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/24/13 12:35	1
1,4-Dichlorobenzene	1.0	U	1.0	0.28	ug/L			04/24/13 12:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			04/24/13 12:35	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			04/24/13 12:35	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/24/13 12:35	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			04/24/13 12:35	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			04/24/13 12:35	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			04/24/13 12:35	1
1,3-Dichloropropane	1.0	U	1.0	0.13	ug/L			04/24/13 12:35	1
2,2-Dichloropropane	1.0	U	1.0	0.12	ug/L			04/24/13 12:35	1
1,1-Dichloropropene	1.0	U	1.0	0.25	ug/L			04/24/13 12:35	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			04/24/13 12:35	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			04/24/13 12:35	1
Hexachlorobutadiene	1.0	U	1.0	0.40	ug/L			04/24/13 12:35	1
2-Hexanone	10	U	10	1.0	ug/L			04/24/13 12:35	1
Isopropylbenzene	1.0	U	1.0	0.10	ug/L			04/24/13 12:35	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			04/24/13 12:35	1
4-Methyl-2-pentanone	10	U	10	1.0	ug/L			04/24/13 12:35	1
Methyl tert-butyl ether	10	U	10	0.20	ug/L			04/24/13 12:35	1
Naphthalene	5.0	U	5.0	1.0	ug/L			04/24/13 12:35	1
n-Butylbenzene	1.0	U	1.0	0.10	ug/L			04/24/13 12:35	1
N-Propylbenzene	1.0	U	1.0	0.15	ug/L			04/24/13 12:35	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			04/24/13 12:35	1
sec-Butylbenzene	1.0	U	1.0	0.16	ug/L			04/24/13 12:35	1
Styrene	1.0	U	1.0	0.11	ug/L			04/24/13 12:35	1
tert-Butylbenzene	1.0	U	1.0	0.12	ug/L			04/24/13 12:35	1

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

Lab Sample ID: MB 680-274199/7
Matrix: Water
Analysis Batch: 274199

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			04/24/13 12:35	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			04/24/13 12:35	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			04/24/13 12:35	1
Toluene	1.0	U	1.0	0.33	ug/L			04/24/13 12:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			04/24/13 12:35	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			04/24/13 12:35	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.35	ug/L			04/24/13 12:35	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.25	ug/L			04/24/13 12:35	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			04/24/13 12:35	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			04/24/13 12:35	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			04/24/13 12:35	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			04/24/13 12:35	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			04/24/13 12:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			04/24/13 12:35	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			04/24/13 12:35	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			04/24/13 12:35	1
Cyclohexane	1.0	U	1.0	0.25	ug/L			04/24/13 12:35	1
Methyl acetate	1.0	U	1.0	0.19	ug/L			04/24/13 12:35	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			04/24/13 12:35	1
Methylcyclohexane	1.0	U	1.0	0.10	ug/L			04/24/13 12:35	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			04/24/13 12:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*70 - 130*		*04/24/13 12:35*	*1*
Dibromofluoromethane	*91*		*70 - 130*		*04/24/13 12:35*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/24/13 12:35*	*1*

Lab Sample ID: LCS 680-274199/4
Matrix: Water
Analysis Batch: 274199

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	141		ug/L		141	39 - 162
Benzene	50.0	50.4		ug/L		101	74 - 123
Bromobenzene	50.0	42.6		ug/L		85	79 - 125
Bromochloromethane	50.0	47.6		ug/L		95	60 - 136
Bromodichloromethane	50.0	50.3		ug/L		101	72 - 129
Bromoform	50.0	37.8		ug/L		76	60 - 134
Bromomethane	50.0	15.1		ug/L		30	10 - 171
2-Butanone	100	112		ug/L		112	55 - 142
Carbon disulfide	50.0	45.5		ug/L		91	63 - 142
Carbon tetrachloride	50.0	48.9		ug/L		98	70 - 131
Chlorobenzene	50.0	43.0		ug/L		86	79 - 120
Chloroethane	50.0	39.4		ug/L		79	47 - 148
Chloroform	50.0	49.9		ug/L		100	76 - 128
Chloromethane	50.0	54.4		ug/L		109	47 - 151
2-Chlorotoluene	50.0	43.8		ug/L		88	78 - 126
4-Chlorotoluene	50.0	42.8		ug/L		86	79 - 124

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

Lab Sample ID: LCS 680-274199/4
Matrix: Water
Analysis Batch: 274199

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromochloromethane	50.0	41.8		ug/L		84	63 - 134
1,2-Dibromo-3-Chloropropane	50.0	36.0		ug/L		72	57 - 126
1,2-Dibromoethane	50.0	48.0		ug/L		96	75 - 127
Dibromomethane	50.0	47.9		ug/L		96	75 - 122
1,2-Dichlorobenzene	50.0	42.0		ug/L		84	77 - 124
1,3-Dichlorobenzene	50.0	42.8		ug/L		86	79 - 123
1,4-Dichlorobenzene	50.0	42.6		ug/L		85	76 - 124
cis-1,2-Dichloroethene	50.0	49.3		ug/L		99	78 - 127
Dichlorodifluoromethane	50.0	48.4		ug/L		97	41 - 165
1,1-Dichloroethane	50.0	53.2		ug/L		106	69 - 132
1,2-Dichloroethane	50.0	51.8		ug/L		104	75 - 120
1,1-Dichloroethene	50.0	48.6		ug/L		97	73 - 134
1,2-Dichloropropane	50.0	57.4		ug/L		115	71 - 126
1,3-Dichloropropane	50.0	56.3		ug/L		113	73 - 125
2,2-Dichloropropane	50.0	53.1		ug/L		106	72 - 147
1,1-Dichloropropene	50.0	60.3		ug/L		121	74 - 130
cis-1,3-Dichloropropene	50.0	56.6		ug/L		113	73 - 128
Ethylbenzene	50.0	45.7		ug/L		91	78 - 125
Hexachlorobutadiene	50.0	42.8		ug/L		86	62 - 145
2-Hexanone	100	92.6		ug/L		93	52 - 149
Isopropylbenzene	50.0	42.1		ug/L		84	72 - 129
Methylene Chloride	50.0	46.1		ug/L		92	79 - 124
4-Methyl-2-pentanone	100	94.8		ug/L		95	51 - 143
Methyl tert-butyl ether	100	95.8		ug/L		96	76 - 126
n-Butylbenzene	50.0	46.8		ug/L		94	72 - 128
N-Propylbenzene	50.0	45.4		ug/L		91	74 - 130
p-Isopropyltoluene	50.0	44.8		ug/L		90	69 - 129
sec-Butylbenzene	50.0	44.8		ug/L		90	71 - 130
Styrene	50.0	44.5		ug/L		89	75 - 129
tert-Butylbenzene	50.0	45.5		ug/L		91	72 - 130
1,1,1,2-Tetrachloroethane	50.0	44.1		ug/L		88	68 - 132
1,1,2,2-Tetrachloroethane	50.0	42.7		ug/L		85	71 - 127
Tetrachloroethene	50.0	43.1		ug/L		86	77 - 128
Toluene	50.0	49.6		ug/L		99	77 - 125
trans-1,2-Dichloroethene	50.0	48.5		ug/L		97	78 - 130
trans-1,3-Dichloropropene	50.0	55.2		ug/L		110	72 - 127
1,2,3-Trichlorobenzene	50.0	39.9		ug/L		80	63 - 136
1,2,4-Trichlorobenzene	50.0	39.0		ug/L		78	67 - 134
1,1,1-Trichloroethane	50.0	52.3		ug/L		105	76 - 126
1,1,2-Trichloroethane	50.0	47.2		ug/L		94	69 - 127
Trichloroethene	50.0	50.4		ug/L		101	80 - 120
Trichlorofluoromethane	50.0	52.8		ug/L		106	66 - 144
1,2,3-Trichloropropane	50.0	47.0		ug/L		94	74 - 126
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.2		ug/L		102	72 - 139
1,2,4-Trimethylbenzene	50.0	45.6		ug/L		91	72 - 129
1,3,5-Trimethylbenzene	50.0	46.8		ug/L		94	72 - 130
Cyclohexane	50.0	48.1		ug/L		96	68 - 137

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

Lab Sample ID: LCS 680-274199/4
Matrix: Water
Analysis Batch: 274199

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl acetate	50.0	32.6		ug/L		65	26 - 182
Vinyl chloride	50.0	54.0		ug/L		108	58 - 141
Methylcyclohexane	50.0	48.4		ug/L		97	72 - 133
Xylenes, Total	150	134		ug/L		90	80 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*86*		*70 - 130*
Dibromofluoromethane	*98*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 680-274199/5
Matrix: Water
Analysis Batch: 274199

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	149		ug/L		149	39 - 162	6	50
Benzene	50.0	50.6		ug/L		101	74 - 123	0	30
Bromobenzene	50.0	42.4		ug/L		85	79 - 125	1	30
Bromochloromethane	50.0	47.6		ug/L		95	60 - 136	0	30
Bromodichloromethane	50.0	50.1		ug/L		100	72 - 129	0	30
Bromoform	50.0	38.0		ug/L		76	60 - 134	1	30
Bromomethane	50.0	15.4		ug/L		31	10 - 171	2	50
2-Butanone	100	117		ug/L		117	55 - 142	4	30
Carbon disulfide	50.0	45.8		ug/L		92	63 - 142	1	30
Carbon tetrachloride	50.0	48.9		ug/L		98	70 - 131	0	30
Chlorobenzene	50.0	43.0		ug/L		86	79 - 120	0	30
Chloroethane	50.0	36.5		ug/L		73	47 - 148	8	40
Chloroform	50.0	50.4		ug/L		101	76 - 128	1	30
Chloromethane	50.0	54.4		ug/L		109	47 - 151	0	30
2-Chlorotoluene	50.0	43.6		ug/L		87	78 - 126	0	30
4-Chlorotoluene	50.0	42.9		ug/L		86	79 - 124	0	30
Dibromochloromethane	50.0	41.9		ug/L		84	63 - 134	0	50
1,2-Dibromo-3-Chloropropane	50.0	37.3		ug/L		75	57 - 126	4	50
1,2-Dibromoethane	50.0	48.2		ug/L		96	75 - 127	0	30
Dibromomethane	50.0	48.3		ug/L		97	75 - 122	1	30
1,2-Dichlorobenzene	50.0	41.9		ug/L		84	77 - 124	0	30
1,3-Dichlorobenzene	50.0	43.0		ug/L		86	79 - 123	1	30
1,4-Dichlorobenzene	50.0	42.4		ug/L		85	76 - 124	0	30
cis-1,2-Dichloroethene	50.0	50.2		ug/L		100	78 - 127	2	30
Dichlorodifluoromethane	50.0	47.0		ug/L		94	41 - 165	3	50
1,1-Dichloroethane	50.0	53.5		ug/L		107	69 - 132	1	30
1,2-Dichloroethane	50.0	52.1		ug/L		104	75 - 120	0	30
1,1-Dichloroethene	50.0	49.1		ug/L		98	73 - 134	1	30
1,2-Dichloropropane	50.0	57.5		ug/L		115	71 - 126	0	30
1,3-Dichloropropane	50.0	56.5		ug/L		113	73 - 125	0	30
2,2-Dichloropropane	50.0	52.4		ug/L		105	72 - 147	1	30
1,1-Dichloropropene	50.0	59.7		ug/L		119	74 - 130	1	30
cis-1,3-Dichloropropene	50.0	57.5		ug/L		115	73 - 128	1	30

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

Lab Sample ID: LCSD 680-274199/5
Matrix: Water
Analysis Batch: 274199

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			50.0	45.3		ug/L		91	78 - 125	1	30
Hexachlorobutadiene			50.0	43.1		ug/L		86	62 - 145	1	30
2-Hexanone			100	94.1		ug/L		94	52 - 149	2	30
Isopropylbenzene			50.0	41.3		ug/L		83	72 - 129	2	30
Methylene Chloride			50.0	46.8		ug/L		94	79 - 124	2	30
4-Methyl-2-pentanone			100	97.7		ug/L		98	51 - 143	3	30
Methyl tert-butyl ether			100	97.3		ug/L		97	76 - 126	2	30
n-Butylbenzene			50.0	46.4		ug/L		93	72 - 128	1	30
N-Propylbenzene			50.0	45.1		ug/L		90	74 - 130	1	30
p-Isopropyltoluene			50.0	44.8		ug/L		90	69 - 129	0	50
sec-Butylbenzene			50.0	44.9		ug/L		90	71 - 130	0	30
Styrene			50.0	44.3		ug/L		89	75 - 129	0	30
tert-Butylbenzene			50.0	44.9		ug/L		90	72 - 130	1	30
1,1,1,2-Tetrachloroethane			50.0	43.9		ug/L		88	68 - 132	0	30
1,1,2,2-Tetrachloroethane			50.0	43.3		ug/L		87	71 - 127	2	30
Tetrachloroethene			50.0	42.5		ug/L		85	77 - 128	1	30
Toluene			50.0	49.9		ug/L		100	77 - 125	1	30
trans-1,2-Dichloroethene			50.0	49.2		ug/L		98	78 - 130	1	30
trans-1,3-Dichloropropene			50.0	56.0		ug/L		112	72 - 127	1	50
1,2,3-Trichlorobenzene			50.0	39.8		ug/L		80	63 - 136	0	30
1,2,4-Trichlorobenzene			50.0	39.3		ug/L		79	67 - 134	1	30
1,1,1-Trichloroethane			50.0	52.2		ug/L		104	76 - 126	0	30
1,1,2-Trichloroethane			50.0	47.3		ug/L		95	69 - 127	0	30
Trichloroethene			50.0	50.4		ug/L		101	80 - 120	0	30
Trichlorofluoromethane			50.0	52.3		ug/L		105	66 - 144	1	30
1,2,3-Trichloropropane			50.0	48.3		ug/L		97	74 - 126	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	50.5		ug/L		101	72 - 139	1	30
1,2,4-Trimethylbenzene			50.0	45.3		ug/L		91	72 - 129	1	50
1,3,5-Trimethylbenzene			50.0	46.6		ug/L		93	72 - 130	1	50
Cyclohexane			50.0	48.2		ug/L		96	68 - 137	0	30
Methyl acetate			50.0	33.9		ug/L		68	26 - 182	4	30
Vinyl chloride			50.0	53.5		ug/L		107	58 - 141	1	30
Methylcyclohexane			50.0	48.6		ug/L		97	72 - 133	0	30
Xylenes, Total			150	134		ug/L		89	80 - 124	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*85*		*70 - 130*
Dibromofluoromethane	*99*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89352-1
SDG: AGL89352

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-183383/1-A
Matrix: Water
Analysis Batch: 183989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183383

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.0	U	1.0	0.36	ug/L		04/18/13 08:47	04/24/13 13:21	1
Acenaphthylene	1.0	U	1.0	0.32	ug/L		04/18/13 08:47	04/24/13 13:21	1
Acetophenone	5.0	U	5.0	0.81	ug/L		04/18/13 08:47	04/24/13 13:21	1
2-Acetylaminofluorene	5.0	U	5.0	0.98	ug/L		04/18/13 08:47	04/24/13 13:21	1
alpha,alpha-Dimethyl phenethylamine	40	U	40	8.6	ug/L		04/18/13 08:47	04/24/13 13:21	1
4-Aminobiphenyl	10	U	10	1.3	ug/L		04/18/13 08:47	04/24/13 13:21	1
Aniline	20	U	20	3.5	ug/L		04/18/13 08:47	04/24/13 13:21	1
Anthracene	1.0	U	1.0	0.32	ug/L		04/18/13 08:47	04/24/13 13:21	1
Aramite	5.0	U	5.0	1.3	ug/L		04/18/13 08:47	04/24/13 13:21	1
Benzenethiol	20	U	20	10	ug/L		04/18/13 08:47	04/24/13 13:21	1
Benzidine	40	U	40	20	ug/L		04/18/13 08:47	04/24/13 13:21	1
Benzo[a]anthracene	0.20	U	0.20	0.044	ug/L		04/18/13 08:47	04/24/13 13:21	1
Benzo[a]pyrene	0.20	U	0.20	0.056	ug/L		04/18/13 08:47	04/24/13 13:21	1
Benzo[b]fluoranthene	0.20	U	0.20	0.058	ug/L		04/18/13 08:47	04/24/13 13:21	1
Benzo[g,h,i]perylene	1.0	U	1.0	0.42	ug/L		04/18/13 08:47	04/24/13 13:21	1
Benzoic acid	20	U ^	20	4.6	ug/L		04/18/13 08:47	04/24/13 13:21	1
Benzo[k]fluoranthene	0.20	U	0.20	0.074	ug/L		04/18/13 08:47	04/24/13 13:21	1
Benzyl alcohol	20	U	20	3.1	ug/L		04/18/13 08:47	04/24/13 13:21	1
Bis(2-chloroethoxy)methane	2.0	U	2.0	0.30	ug/L		04/18/13 08:47	04/24/13 13:21	1
Bis(2-chloroethyl)ether	2.0	U	2.0	0.35	ug/L		04/18/13 08:47	04/24/13 13:21	1
Bis(2-ethylhexyl) phthalate	10	U	10	2.4	ug/L		04/18/13 08:47	04/24/13 13:21	1
4-Bromophenyl phenyl ether	5.0	U	5.0	0.91	ug/L		04/18/13 08:47	04/24/13 13:21	1
Butyl benzyl phthalate	2.0	U	2.0	0.27	ug/L		04/18/13 08:47	04/24/13 13:21	1
Carbofuran	10	U	10	1.4	ug/L		04/18/13 08:47	04/24/13 13:21	1
4-Chloroaniline	10	U ^	10	2.1	ug/L		04/18/13 08:47	04/24/13 13:21	1
4-Chloro-3-methylphenol	10	U	10	2.2	ug/L		04/18/13 08:47	04/24/13 13:21	1
1-Chloronaphthalene	2.0	U	2.0	2.0	ug/L		04/18/13 08:47	04/24/13 13:21	1
2-Chloronaphthalene	2.0	U	2.0	0.34	ug/L		04/18/13 08:47	04/24/13 13:21	1
2-Chlorophenol	5.0	U	5.0	0.80	ug/L		04/18/13 08:47	04/24/13 13:21	1
4-Chlorophenyl phenyl ether	5.0	U	5.0	0.81	ug/L		04/18/13 08:47	04/24/13 13:21	1
Chrysene	0.50	U	0.50	0.14	ug/L		04/18/13 08:47	04/24/13 13:21	1
Diallate	5.0	U	5.0	2.2	ug/L		04/18/13 08:47	04/24/13 13:21	1
Dibenz(a,h)anthracene	0.30	U	0.30	0.064	ug/L		04/18/13 08:47	04/24/13 13:21	1
Dibenz[a,j]acridine	5.0	U	5.0	1.3	ug/L		04/18/13 08:47	04/24/13 13:21	1
Dibenzofuran	2.0	U	2.0	0.35	ug/L		04/18/13 08:47	04/24/13 13:21	1
1,2-Dichlorobenzene	2.0	U	2.0	0.29	ug/L		04/18/13 08:47	04/24/13 13:21	1
1,3-Dichlorobenzene	2.0	U	2.0	0.25	ug/L		04/18/13 08:47	04/24/13 13:21	1
1,4-Dichlorobenzene	2.0	U	2.0	0.27	ug/L		04/18/13 08:47	04/24/13 13:21	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.94	ug/L		04/18/13 08:47	04/24/13 13:21	1
2,4-Dichlorophenol	10	U	10	2.3	ug/L		04/18/13 08:47	04/24/13 13:21	1
2,6-Dichlorophenol	5.0	U	5.0	0.85	ug/L		04/18/13 08:47	04/24/13 13:21	1
Diethyl phthalate	2.0	U	2.0	0.44	ug/L		04/18/13 08:47	04/24/13 13:21	1
Diethylstilbestrol	20	U	20	2.1	ug/L		04/18/13 08:47	04/24/13 13:21	1
Dimethoate	10	U	10	1.5	ug/L		04/18/13 08:47	04/24/13 13:21	1
7,12-Dimethylbenz(a)anthracene	5.0	U	5.0	2.2	ug/L		04/18/13 08:47	04/24/13 13:21	1
3,3'-Dimethylbenzidine	20	U	20	9.1	ug/L		04/18/13 08:47	04/24/13 13:21	1
2,4-Dimethylphenol	10	U	10	3.3	ug/L		04/18/13 08:47	04/24/13 13:21	1
Dimethyl phthalate	2.0	U	2.0	0.38	ug/L		04/18/13 08:47	04/24/13 13:21	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-183383/1-A
Matrix: Water
Analysis Batch: 183989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183383

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	5.0	U	5.0	0.80	ug/L		04/18/13 08:47	04/24/13 13:21	1
1,4-Dinitrobenzene	5.0	U	5.0	2.0	ug/L		04/18/13 08:47	04/24/13 13:21	1
4,6-Dinitro-2-methylphenol	20	U	20	4.9	ug/L		04/18/13 08:47	04/24/13 13:21	1
2,4-Dinitrophenol	20	U	20	7.4	ug/L		04/18/13 08:47	04/24/13 13:21	1
2,4-Dinitrotoluene	1.0	U	1.0	0.30	ug/L		04/18/13 08:47	04/24/13 13:21	1
2,6-Dinitrotoluene	0.50	U	0.50	0.12	ug/L		04/18/13 08:47	04/24/13 13:21	1
Di-n-octyl phthalate	10	U	10	2.5	ug/L		04/18/13 08:47	04/24/13 13:21	1
Dinoseb	10	U	10	3.2	ug/L		04/18/13 08:47	04/24/13 13:21	1
1,4-Dioxane	20	U	20	6.9	ug/L		04/18/13 08:47	04/24/13 13:21	1
Diphenylamine	5.0	U	5.0	1.7	ug/L		04/18/13 08:47	04/24/13 13:21	1
1,2-Diphenylhydrazine	5.0	U	5.0	0.70	ug/L		04/18/13 08:47	04/24/13 13:21	1
Disulfoton	10	U	10	1.4	ug/L		04/18/13 08:47	04/24/13 13:21	1
Ethyl 4,4'-Dichlorobenzilate	5.0	U	5.0	1.4	ug/L		04/18/13 08:47	04/24/13 13:21	1
Ethyl methanesulfonate	5.0	U	5.0	2.0	ug/L		04/18/13 08:47	04/24/13 13:21	1
Ethyl Parathion	10	U	10	1.7	ug/L		04/18/13 08:47	04/24/13 13:21	1
Famphur	10	U	10	1.5	ug/L		04/18/13 08:47	04/24/13 13:21	1
Fluoranthene	1.0	U	1.0	0.32	ug/L		04/18/13 08:47	04/24/13 13:21	1
Fluorene	1.0	U	1.0	0.38	ug/L		04/18/13 08:47	04/24/13 13:21	1
Hexachlorobenzene	0.50	U	0.50	0.14	ug/L		04/18/13 08:47	04/24/13 13:21	1
Hexachlorobutadiene	5.0	U	5.0	1.1	ug/L		04/18/13 08:47	04/24/13 13:21	1
Hexachlorocyclopentadiene	20	U	20	3.4	ug/L		04/18/13 08:47	04/24/13 13:21	1
Hexachloroethane	5.0	U	5.0	0.97	ug/L		04/18/13 08:47	04/24/13 13:21	1
Hexachlorophene	100	U	100	52	ug/L		04/18/13 08:47	04/24/13 13:21	1
Hexachloropropene	20	U	20	3.0	ug/L		04/18/13 08:47	04/24/13 13:21	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.084	ug/L		04/18/13 08:47	04/24/13 13:21	1
Isophorone	2.0	U	2.0	0.29	ug/L		04/18/13 08:47	04/24/13 13:21	1
Isosafrole	5.0	U	5.0	1.8	ug/L		04/18/13 08:47	04/24/13 13:21	1
Malathion	10	U	10	1.7	ug/L		04/18/13 08:47	04/24/13 13:21	1
m-Dinitrobenzene	5.0	U	5.0	1.9	ug/L		04/18/13 08:47	04/24/13 13:21	1
Methapyrilene	40	U	40	6.5	ug/L		04/18/13 08:47	04/24/13 13:21	1
3-Methylcholanthrene	5.0	U	5.0	0.98	ug/L		04/18/13 08:47	04/24/13 13:21	1
Methyl methanesulfonate	5.0	U	5.0	1.8	ug/L		04/18/13 08:47	04/24/13 13:21	1
2-Methylnaphthalene	0.50	U	0.50	0.13	ug/L		04/18/13 08:47	04/24/13 13:21	1
Methyl parathion	10	U	10	1.6	ug/L		04/18/13 08:47	04/24/13 13:21	1
2-Methylphenol	2.0	U	2.0	0.31	ug/L		04/18/13 08:47	04/24/13 13:21	1
3 & 4 Methylphenol	2.0	U ^	2.0	0.44	ug/L		04/18/13 08:47	04/24/13 13:21	1
Naphthalene	1.0	U	1.0	0.30	ug/L		04/18/13 08:47	04/24/13 13:21	1
1,4-Naphthoquinone	10	U	10	1.7	ug/L		04/18/13 08:47	04/24/13 13:21	1
1-Naphthylamine	10	U	10	1.4	ug/L		04/18/13 08:47	04/24/13 13:21	1
2-Naphthylamine	10	U	10	1.4	ug/L		04/18/13 08:47	04/24/13 13:21	1
2-Nitroaniline	5.0	U	5.0	1.1	ug/L		04/18/13 08:47	04/24/13 13:21	1
3-Nitroaniline	10	U	10	2.3	ug/L		04/18/13 08:47	04/24/13 13:21	1
4-Nitroaniline	10	U	10	3.9	ug/L		04/18/13 08:47	04/24/13 13:21	1
Nitrobenzene	1.0	U	1.0	0.45	ug/L		04/18/13 08:47	04/24/13 13:21	1
5-Nitro-o-toluidine	5.0	U	5.0	1.6	ug/L		04/18/13 08:47	04/24/13 13:21	1
2-Nitrophenol	10	U	10	2.1	ug/L		04/18/13 08:47	04/24/13 13:21	1
4-Nitrophenol	20	U	20	2.3	ug/L		04/18/13 08:47	04/24/13 13:21	1
4-Nitroquinoline-1-oxide	20	U	20	12	ug/L		04/18/13 08:47	04/24/13 13:21	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-183383/1-A
Matrix: Water
Analysis Batch: 183989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183383

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiethylamine	5.0	U	5.0	1.1	ug/L		04/18/13 08:47	04/24/13 13:21	1
N-Nitrosodimethylamine	10	U	10	1.4	ug/L		04/18/13 08:47	04/24/13 13:21	1
N-Nitrosodi-n-butylamine	5.0	U	5.0	0.98	ug/L		04/18/13 08:47	04/24/13 13:21	1
N-Nitrosodi-n-propylamine	0.50	U	0.50	0.14	ug/L		04/18/13 08:47	04/24/13 13:21	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.34	ug/L		04/18/13 08:47	04/24/13 13:21	1
N-Nitrosomethylethylamine	5.0	U	5.0	1.1	ug/L		04/18/13 08:47	04/24/13 13:21	1
N-Nitrosomorpholine	5.0	U	5.0	2.4	ug/L		04/18/13 08:47	04/24/13 13:21	1
N-Nitrosopiperidine	5.0	U	5.0	0.81	ug/L		04/18/13 08:47	04/24/13 13:21	1
N-Nitrosopyrrolidine	5.0	U	5.0	0.79	ug/L		04/18/13 08:47	04/24/13 13:21	1
o,o',o''-Triethylphosphorothioate	10	U	10	1.5	ug/L		04/18/13 08:47	04/24/13 13:21	1
o-Toluidine	5.0	U	5.0	1.6	ug/L		04/18/13 08:47	04/24/13 13:21	1
2,2'-oxybis[1-chloropropane]	2.0	U	2.0	0.30	ug/L		04/18/13 08:47	04/24/13 13:21	1
p-Dimethylamino azobenzene	5.0	U	5.0	1.3	ug/L		04/18/13 08:47	04/24/13 13:21	1
Pentachlorobenzene	5.0	U	5.0	1.1	ug/L		04/18/13 08:47	04/24/13 13:21	1
Pentachloronitrobenzene	5.0	U	5.0	1.7	ug/L		04/18/13 08:47	04/24/13 13:21	1
Pentachlorophenol	20	U	20	5.6	ug/L		04/18/13 08:47	04/24/13 13:21	1
Phenacetin	5.0	U	5.0	1.8	ug/L		04/18/13 08:47	04/24/13 13:21	1
Phenanthrene	1.0	U	1.0	0.35	ug/L		04/18/13 08:47	04/24/13 13:21	1
Phenol	5.0	U ^	5.0	0.36	ug/L		04/18/13 08:47	04/24/13 13:21	1
Phorate	10	U	10	1.5	ug/L		04/18/13 08:47	04/24/13 13:21	1
2-Picoline	10	U	10	1.3	ug/L		04/18/13 08:47	04/24/13 13:21	1
p-Phenylene diamine	40	U	40	20	ug/L		04/18/13 08:47	04/24/13 13:21	1
Pronamide	10	U	10	1.1	ug/L		04/18/13 08:47	04/24/13 13:21	1
Pyrene	1.0	U	1.0	0.48	ug/L		04/18/13 08:47	04/24/13 13:21	1
Pyridine	20	U	20	7.2	ug/L		04/18/13 08:47	04/24/13 13:21	1
Safrole	5.0	U	5.0	1.9	ug/L		04/18/13 08:47	04/24/13 13:21	1
Sulfotepp	10	U	10	1.1	ug/L		04/18/13 08:47	04/24/13 13:21	1
sym-Trinitrobenzene	5.0	U	5.0	2.3	ug/L		04/18/13 08:47	04/24/13 13:21	1
1,2,4,5-Tetrachlorobenzene	5.0	U	5.0	1.2	ug/L		04/18/13 08:47	04/24/13 13:21	1
2,3,4,6-Tetrachlorophenol	5.0	U	5.0	1.5	ug/L		04/18/13 08:47	04/24/13 13:21	1
Thionazin	10	U	10	1.8	ug/L		04/18/13 08:47	04/24/13 13:21	1
1,2,4-Trichlorobenzene	2.0	U	2.0	0.30	ug/L		04/18/13 08:47	04/24/13 13:21	1
2,4,5-Trichlorophenol	10	U	10	2.3	ug/L		04/18/13 08:47	04/24/13 13:21	1
2,4,6-Trichlorophenol	5.0	U	5.0	1.1	ug/L		04/18/13 08:47	04/24/13 13:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*48 - 110*	*04/18/13 08:47*	*04/24/13 13:21*	*1*
2-Fluorophenol	*39*		*20 - 100*	*04/18/13 08:47*	*04/24/13 13:21*	*1*
Nitrobenzene-d5	*72*		*41 - 110*	*04/18/13 08:47*	*04/24/13 13:21*	*1*
Phenol-d5	*30*		*20 - 100*	*04/18/13 08:47*	*04/24/13 13:21*	*1*
Terphenyl-d14	*89*		*44 - 132*	*04/18/13 08:47*	*04/24/13 13:21*	*1*
2,4,6-Tribromophenol	*68*		*50 - 129*	*04/18/13 08:47*	*04/24/13 13:21*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-183383/2-A
Matrix: Water
Analysis Batch: 183989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183383

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	50.0	39.2		ug/L		78	53 - 110
Acenaphthylene	50.0	37.9		ug/L		76	56 - 110
Acetophenone	50.0	34.2		ug/L		68	48 - 110
Aniline	50.0	25.8		ug/L		52	29 - 100
Anthracene	50.0	41.8		ug/L		84	58 - 110
Benzidine	50.0	40	U	ug/L		15	10 - 100
Benzo[a]anthracene	50.0	39.5		ug/L		79	62 - 110
Benzo[a]pyrene	50.0	42.7		ug/L		85	63 - 110
Benzo[b]fluoranthene	50.0	37.6		ug/L		75	60 - 111
Benzo[g,h,i]perylene	50.0	52.7		ug/L		105	56 - 123
Benzoic acid	50.0	14.8	J ^	ug/L		30	10 - 100
Benzo[k]fluoranthene	50.0	41.7		ug/L		83	59 - 116
Benzyl alcohol	50.0	29.2		ug/L		58	42 - 110
Bis(2-chloroethoxy)methane	50.0	36.6		ug/L		73	56 - 110
Bis(2-chloroethyl)ether	50.0	37.1		ug/L		74	49 - 110
Bis(2-ethylhexyl) phthalate	50.0	42.9		ug/L		86	62 - 122
4-Bromophenyl phenyl ether	50.0	44.5		ug/L		89	59 - 110
Butyl benzyl phthalate	50.0	43.4		ug/L		87	64 - 126
4-Chloroaniline	50.0	37.9	^	ug/L		76	47 - 110
4-Chloro-3-methylphenol	50.0	38.1		ug/L		76	52 - 111
2-Chloronaphthalene	50.0	37.9		ug/L		76	48 - 110
2-Chlorophenol	50.0	34.4		ug/L		69	50 - 110
4-Chlorophenyl phenyl ether	50.0	42.8		ug/L		86	59 - 110
Chrysene	50.0	40.3		ug/L		81	62 - 111
Dibenz(a,h)anthracene	50.0	49.9		ug/L		100	59 - 120
Dibenzofuran	50.0	38.9		ug/L		78	56 - 110
1,2-Dichlorobenzene	50.0	32.4		ug/L		65	34 - 100
1,3-Dichlorobenzene	50.0	30.6		ug/L		61	34 - 100
1,4-Dichlorobenzene	50.0	32.2		ug/L		64	33 - 100
3,3'-Dichlorobenzidine	50.0	43.3		ug/L		87	56 - 111
2,4-Dichlorophenol	50.0	39.5		ug/L		79	58 - 110
2,6-Dichlorophenol	50.0	37.5		ug/L		75	57 - 110
Diethyl phthalate	50.0	42.3		ug/L		85	63 - 110
3,3'-Dimethylbenzidine	50.0	21.2		ug/L		42	10 - 110
2,4-Dimethylphenol	50.0	36.7		ug/L		73	48 - 110
Dimethyl phthalate	50.0	40.5		ug/L		81	65 - 110
Di-n-butyl phthalate	50.0	42.6		ug/L		85	64 - 116
4,6-Dinitro-2-methylphenol	50.0	46.9		ug/L		94	58 - 121
2,4-Dinitrophenol	50.0	48.3		ug/L		97	25 - 148
2,4-Dinitrotoluene	50.0	44.7		ug/L		89	62 - 119
2,6-Dinitrotoluene	50.0	42.4		ug/L		85	63 - 110
Di-n-octyl phthalate	50.0	43.6		ug/L		87	59 - 131
Dinoseb	50.0	47.1		ug/L		94	40 - 110
1,4-Dioxane	50.0	25.9		ug/L		52	10 - 100
1,2-Diphenylhydrazine	50.0	41.5		ug/L		83	58 - 110
Fluoranthene	50.0	38.5		ug/L		77	62 - 112
Fluorene	50.0	39.5		ug/L		79	53 - 110
Hexachlorobenzene	50.0	40.8		ug/L		82	60 - 110

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-183383/2-A
Matrix: Water
Analysis Batch: 183989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183383

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	50.0	34.3		ug/L		69	28 - 110
Hexachlorocyclopentadiene	50.0	36.0		ug/L		72	15 - 110
Hexachloroethane	50.0	31.9		ug/L		64	29 - 100
Hexachloropropene	50.0	35.8		ug/L		72	23 - 110
Indeno[1,2,3-cd]pyrene	50.0	51.3		ug/L		103	61 - 117
Isophorone	50.0	36.1		ug/L		72	51 - 110
2-Methylnaphthalene	50.0	35.0		ug/L		70	39 - 110
2-Methylphenol	50.0	30.3		ug/L		61	42 - 100
3 & 4 Methylphenol	50.0	28.8	^	ug/L		58	38 - 110
Naphthalene	50.0	34.3		ug/L		69	39 - 110
2-Nitroaniline	50.0	50.0		ug/L		100	62 - 121
3-Nitroaniline	50.0	41.1		ug/L		82	55 - 113
4-Nitroaniline	50.0	45.0		ug/L		90	52 - 125
Nitrobenzene	50.0	37.1		ug/L		74	52 - 110
2-Nitrophenol	50.0	41.8		ug/L		84	56 - 110
4-Nitrophenol	50.0	19.1	J	ug/L		38	20 - 100
N-Nitrosodiethylamine	50.0	36.6		ug/L		73	53 - 110
N-Nitrosodimethylamine	50.0	24.3		ug/L		49	27 - 100
N-Nitrosodi-n-butylamine	50.0	38.1		ug/L		76	51 - 116
N-Nitrosodi-n-propylamine	50.0	31.9		ug/L		64	43 - 110
N-Nitrosodiphenylamine	50.0	42.4		ug/L		85	64 - 110
N-Nitrosomethylethylamine	50.0	33.6		ug/L		67	42 - 110
N-Nitrosopiperidine	50.0	38.2		ug/L		76	59 - 110
N-Nitrosopyrrolidine	50.0	33.1		ug/L		66	37 - 116
2,2'-oxybis[1-chloropropane]	50.0	32.1		ug/L		64	32 - 110
Pentachlorobenzene	50.0	41.4		ug/L		83	55 - 110
Pentachlorophenol	50.0	43.6		ug/L		87	42 - 127
Phenanthrene	50.0	41.1		ug/L		82	59 - 110
Phenol	50.0	16.1	^	ug/L		32	20 - 100
Pyrene	50.0	41.5		ug/L		83	58 - 115
Pyridine	50.0	18.0	J	ug/L		36	10 - 100
1,2,4,5-Tetrachlorobenzene	50.0	41.3		ug/L		83	42 - 110
2,3,4,6-Tetrachlorophenol	50.0	43.7		ug/L		87	60 - 112
1,2,4-Trichlorobenzene	50.0	34.2		ug/L		68	34 - 110
2,4,5-Trichlorophenol	50.0	42.4		ug/L		85	63 - 110
2,4,6-Trichlorophenol	50.0	41.4		ug/L		83	63 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*84*		*48 - 110*
2-Fluorophenol	*46*		*20 - 100*
Nitrobenzene-d5	*88*		*41 - 110*
Phenol-d5	*33*		*20 - 100*
Terphenyl-d14	*89*		*44 - 132*
2,4,6-Tribromophenol	*101*		*50 - 129*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-183383/3-A
Matrix: Water
Analysis Batch: 183989

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 183383

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	50.0	41.8		ug/L		84	53 - 110	7	20
Acenaphthylene	50.0	39.9		ug/L		80	56 - 110	5	20
Acetophenone	50.0	38.4		ug/L		77	48 - 110	11	20
Aniline	50.0	27.8		ug/L		56	29 - 100	7	20
Anthracene	50.0	44.5		ug/L		89	58 - 110	6	20
Benzidine	50.0	40	U	ug/L		14	10 - 100	3	20
Benzo[a]anthracene	50.0	41.5		ug/L		83	62 - 110	5	20
Benzo[a]pyrene	50.0	44.8		ug/L		90	63 - 110	5	20
Benzo[b]fluoranthene	50.0	39.4		ug/L		79	60 - 111	5	20
Benzo[g,h,i]perylene	50.0	56.8		ug/L		114	56 - 123	8	20
Benzoic acid	50.0	23.2	^ *	ug/L		46	10 - 100	44	20
Benzo[k]fluoranthene	50.0	43.2		ug/L		86	59 - 116	3	20
Benzyl alcohol	50.0	33.4		ug/L		67	42 - 110	13	20
Bis(2-chloroethoxy)methane	50.0	39.7		ug/L		79	56 - 110	8	20
Bis(2-chloroethyl)ether	50.0	39.5		ug/L		79	49 - 110	6	20
Bis(2-ethylhexyl) phthalate	50.0	45.1		ug/L		90	62 - 122	5	20
4-Bromophenyl phenyl ether	50.0	47.2		ug/L		94	59 - 110	6	20
Butyl benzyl phthalate	50.0	46.7		ug/L		93	64 - 126	7	20
4-Chloroaniline	50.0	33.6	^	ug/L		67	47 - 110	12	20
4-Chloro-3-methylphenol	50.0	43.9		ug/L		88	52 - 111	14	20
2-Chloronaphthalene	50.0	39.7		ug/L		79	48 - 110	5	20
2-Chlorophenol	50.0	36.9		ug/L		74	50 - 110	7	20
4-Chlorophenyl phenyl ether	50.0	45.7		ug/L		91	59 - 110	7	20
Chrysene	50.0	41.5		ug/L		83	62 - 111	3	20
Dibenz(a,h)anthracene	50.0	52.8		ug/L		106	59 - 120	6	20
Dibenzofuran	50.0	41.8		ug/L		84	56 - 110	7	20
1,2-Dichlorobenzene	50.0	33.6		ug/L		67	34 - 100	4	20
1,3-Dichlorobenzene	50.0	31.9		ug/L		64	34 - 100	4	20
1,4-Dichlorobenzene	50.0	33.1		ug/L		66	33 - 100	3	20
3,3'-Dichlorobenzidine	50.0	45.9		ug/L		92	56 - 111	6	20
2,4-Dichlorophenol	50.0	42.7		ug/L		85	58 - 110	8	20
2,6-Dichlorophenol	50.0	41.9		ug/L		84	57 - 110	11	20
Diethyl phthalate	50.0	45.3		ug/L		91	63 - 110	7	20
3,3'-Dimethylbenzidine	50.0	18.9	J	ug/L		38	10 - 110	11	20
2,4-Dimethylphenol	50.0	39.6		ug/L		79	48 - 110	8	20
Dimethyl phthalate	50.0	43.6		ug/L		87	65 - 110	7	20
Di-n-butyl phthalate	50.0	44.6		ug/L		89	64 - 116	5	20
4,6-Dinitro-2-methylphenol	50.0	51.7		ug/L		103	58 - 121	10	20
2,4-Dinitrophenol	50.0	50.3		ug/L		101	25 - 148	4	20
2,4-Dinitrotoluene	50.0	47.6		ug/L		95	62 - 119	6	20
2,6-Dinitrotoluene	50.0	46.7		ug/L		93	63 - 110	10	20
Di-n-octyl phthalate	50.0	45.9		ug/L		92	59 - 131	5	20
Dinoseb	50.0	49.6		ug/L		99	40 - 110	5	20
1,4-Dioxane	50.0	24.9		ug/L		50	10 - 100	4	20
1,2-Diphenylhydrazine	50.0	44.4		ug/L		89	58 - 110	7	20
Fluoranthene	50.0	39.6		ug/L		79	62 - 112	3	20
Fluorene	50.0	42.5		ug/L		85	53 - 110	7	20
Hexachlorobenzene	50.0	43.2		ug/L		86	60 - 110	6	20

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-183383/3-A
Matrix: Water
Analysis Batch: 183989

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 183383

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobutadiene			50.0	35.5		ug/L		71	28 - 110	4	20
Hexachlorocyclopentadiene			50.0	36.1		ug/L		72	15 - 110	0	20
Hexachloroethane			50.0	33.7		ug/L		67	29 - 100	5	20
Hexachloropropene			50.0	37.0		ug/L		74	23 - 110	3	20
Indeno[1,2,3-cd]pyrene			50.0	53.8		ug/L		108	61 - 117	5	20
Isophorone			50.0	40.3		ug/L		81	51 - 110	11	20
2-Methylnaphthalene			50.0	38.9		ug/L		78	39 - 110	10	20
2-Methylphenol			50.0	33.9		ug/L		68	42 - 100	11	20
3 & 4 Methylphenol			50.0	34.2	^	ug/L		68	38 - 110	17	20
Naphthalene			50.0	35.9		ug/L		72	39 - 110	4	20
2-Nitroaniline			50.0	54.1		ug/L		108	62 - 121	8	20
3-Nitroaniline			50.0	44.9		ug/L		90	55 - 113	9	20
4-Nitroaniline			50.0	47.6		ug/L		95	52 - 125	6	20
Nitrobenzene			50.0	37.5		ug/L		75	52 - 110	1	20
2-Nitrophenol			50.0	45.1		ug/L		90	56 - 110	8	20
4-Nitrophenol			50.0	21.5		ug/L		43	20 - 100	12	20
N-Nitrosodiethylamine			50.0	38.4		ug/L		77	53 - 110	5	20
N-Nitrosodimethylamine			50.0	24.1		ug/L		48	27 - 100	1	20
N-Nitrosodi-n-butylamine			50.0	43.7		ug/L		87	51 - 116	14	20
N-Nitrosodi-n-propylamine			50.0	36.6		ug/L		73	43 - 110	14	20
N-Nitrosodiphenylamine			50.0	46.3		ug/L		93	64 - 110	9	20
N-Nitrosomethylethylamine			50.0	36.2		ug/L		72	42 - 110	8	20
N-Nitrosopiperidine			50.0	42.5		ug/L		85	59 - 110	11	20
N-Nitrosopyrrolidine			50.0	38.5		ug/L		77	37 - 116	15	20
2,2'-oxybis[1-chloropropane]			50.0	34.1		ug/L		68	32 - 110	6	20
Pentachlorobenzene			50.0	44.5		ug/L		89	55 - 110	7	20
Pentachlorophenol			50.0	48.1		ug/L		96	42 - 127	10	20
Phenanthrene			50.0	42.7		ug/L		85	59 - 110	4	20
Phenol			50.0	18.7	^	ug/L		37	20 - 100	15	20
Pyrene			50.0	45.6		ug/L		91	58 - 115	9	20
Pyridine			50.0	20.1		ug/L		40	10 - 100	11	20
1,2,4,5-Tetrachlorobenzene			50.0	42.6		ug/L		85	42 - 110	3	20
2,3,4,6-Tetrachlorophenol			50.0	47.6		ug/L		95	60 - 112	9	20
1,2,4-Trichlorobenzene			50.0	35.3		ug/L		71	34 - 110	3	20
2,4,5-Trichlorophenol			50.0	46.3		ug/L		93	63 - 110	9	20
2,4,6-Trichlorophenol			50.0	42.7		ug/L		85	63 - 110	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*89*		*48 - 110*
2-Fluorophenol	*49*		*20 - 100*
Nitrobenzene-d5	*92*		*41 - 110*
Phenol-d5	*39*		*20 - 100*
Terphenyl-d14	*100*		*44 - 132*
2,4,6-Tribromophenol	*110*		*50 - 129*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-184113/1-A
Matrix: Water
Analysis Batch: 184148

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184113

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.0	U	1.0	0.36	ug/L		04/25/13 07:41	04/25/13 16:53	1
Acenaphthylene	1.0	U	1.0	0.32	ug/L		04/25/13 07:41	04/25/13 16:53	1
Acetophenone	5.0	U	5.0	0.81	ug/L		04/25/13 07:41	04/25/13 16:53	1
2-Acetylaminofluorene	5.0	U	5.0	0.98	ug/L		04/25/13 07:41	04/25/13 16:53	1
alpha,alpha-Dimethyl phenethylamine	40	U	40	8.6	ug/L		04/25/13 07:41	04/25/13 16:53	1
4-Aminobiphenyl	10	U	10	1.3	ug/L		04/25/13 07:41	04/25/13 16:53	1
Aniline	20	U	20	3.5	ug/L		04/25/13 07:41	04/25/13 16:53	1
Anthracene	1.0	U	1.0	0.32	ug/L		04/25/13 07:41	04/25/13 16:53	1
Aramite	5.0	U	5.0	1.3	ug/L		04/25/13 07:41	04/25/13 16:53	1
Benzenethiol	20	U	20	10	ug/L		04/25/13 07:41	04/25/13 16:53	1
Benzidine	40	U	40	20	ug/L		04/25/13 07:41	04/25/13 16:53	1
Benzo[a]anthracene	0.20	U	0.20	0.044	ug/L		04/25/13 07:41	04/25/13 16:53	1
Benzo[a]pyrene	0.20	U	0.20	0.056	ug/L		04/25/13 07:41	04/25/13 16:53	1
Benzo[b]fluoranthene	0.20	U	0.20	0.058	ug/L		04/25/13 07:41	04/25/13 16:53	1
Benzo[g,h,i]perylene	1.0	U	1.0	0.42	ug/L		04/25/13 07:41	04/25/13 16:53	1
Benzoic acid	20	U ^	20	4.6	ug/L		04/25/13 07:41	04/25/13 16:53	1
Benzo[k]fluoranthene	0.20	U	0.20	0.074	ug/L		04/25/13 07:41	04/25/13 16:53	1
Benzyl alcohol	20	U	20	3.1	ug/L		04/25/13 07:41	04/25/13 16:53	1
Bis(2-chloroethoxy)methane	2.0	U	2.0	0.30	ug/L		04/25/13 07:41	04/25/13 16:53	1
Bis(2-chloroethyl)ether	2.0	U	2.0	0.35	ug/L		04/25/13 07:41	04/25/13 16:53	1
Bis(2-ethylhexyl) phthalate	10	U	10	2.4	ug/L		04/25/13 07:41	04/25/13 16:53	1
4-Bromophenyl phenyl ether	5.0	U	5.0	0.91	ug/L		04/25/13 07:41	04/25/13 16:53	1
Butyl benzyl phthalate	2.0	U	2.0	0.27	ug/L		04/25/13 07:41	04/25/13 16:53	1
Carbofuran	10	U	10	1.4	ug/L		04/25/13 07:41	04/25/13 16:53	1
4-Chloroaniline	10	U ^	10	2.1	ug/L		04/25/13 07:41	04/25/13 16:53	1
4-Chloro-3-methylphenol	10	U	10	2.2	ug/L		04/25/13 07:41	04/25/13 16:53	1
1-Chloronaphthalene	2.0	U	2.0	2.0	ug/L		04/25/13 07:41	04/25/13 16:53	1
2-Chloronaphthalene	2.0	U	2.0	0.34	ug/L		04/25/13 07:41	04/25/13 16:53	1
2-Chlorophenol	5.0	U	5.0	0.80	ug/L		04/25/13 07:41	04/25/13 16:53	1
4-Chlorophenyl phenyl ether	5.0	U	5.0	0.81	ug/L		04/25/13 07:41	04/25/13 16:53	1
Chrysene	0.50	U	0.50	0.14	ug/L		04/25/13 07:41	04/25/13 16:53	1
Diallate	5.0	U	5.0	2.2	ug/L		04/25/13 07:41	04/25/13 16:53	1
Dibenz(a,h)anthracene	0.30	U	0.30	0.064	ug/L		04/25/13 07:41	04/25/13 16:53	1
Dibenz[a,j]acridine	5.0	U	5.0	1.3	ug/L		04/25/13 07:41	04/25/13 16:53	1
Dibenzofuran	2.0	U	2.0	0.35	ug/L		04/25/13 07:41	04/25/13 16:53	1
1,2-Dichlorobenzene	2.0	U	2.0	0.29	ug/L		04/25/13 07:41	04/25/13 16:53	1
1,3-Dichlorobenzene	2.0	U	2.0	0.25	ug/L		04/25/13 07:41	04/25/13 16:53	1
1,4-Dichlorobenzene	2.0	U	2.0	0.27	ug/L		04/25/13 07:41	04/25/13 16:53	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.94	ug/L		04/25/13 07:41	04/25/13 16:53	1
2,4-Dichlorophenol	10	U	10	2.3	ug/L		04/25/13 07:41	04/25/13 16:53	1
2,6-Dichlorophenol	5.0	U	5.0	0.85	ug/L		04/25/13 07:41	04/25/13 16:53	1
Diethyl phthalate	2.0	U	2.0	0.44	ug/L		04/25/13 07:41	04/25/13 16:53	1
Diethylstilbestrol	20	U	20	2.1	ug/L		04/25/13 07:41	04/25/13 16:53	1
Dimethoate	10	U	10	1.5	ug/L		04/25/13 07:41	04/25/13 16:53	1
7,12-Dimethylbenz(a)anthracene	5.0	U	5.0	2.2	ug/L		04/25/13 07:41	04/25/13 16:53	1
3,3'-Dimethylbenzidine	20	U	20	9.1	ug/L		04/25/13 07:41	04/25/13 16:53	1
2,4-Dimethylphenol	10	U	10	3.3	ug/L		04/25/13 07:41	04/25/13 16:53	1
Dimethyl phthalate	2.0	U	2.0	0.38	ug/L		04/25/13 07:41	04/25/13 16:53	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-184113/1-A
Matrix: Water
Analysis Batch: 184148

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184113

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	5.0	U	5.0	0.80	ug/L		04/25/13 07:41	04/25/13 16:53	1
1,4-Dinitrobenzene	5.0	U	5.0	2.0	ug/L		04/25/13 07:41	04/25/13 16:53	1
4,6-Dinitro-2-methylphenol	20	U	20	4.9	ug/L		04/25/13 07:41	04/25/13 16:53	1
2,4-Dinitrophenol	20	U	20	7.4	ug/L		04/25/13 07:41	04/25/13 16:53	1
2,4-Dinitrotoluene	1.0	U	1.0	0.30	ug/L		04/25/13 07:41	04/25/13 16:53	1
2,6-Dinitrotoluene	0.50	U	0.50	0.12	ug/L		04/25/13 07:41	04/25/13 16:53	1
Di-n-octyl phthalate	10	U	10	2.5	ug/L		04/25/13 07:41	04/25/13 16:53	1
Dinoseb	10	U	10	3.2	ug/L		04/25/13 07:41	04/25/13 16:53	1
1,4-Dioxane	20	U	20	6.9	ug/L		04/25/13 07:41	04/25/13 16:53	1
Diphenylamine	5.0	U	5.0	1.7	ug/L		04/25/13 07:41	04/25/13 16:53	1
1,2-Diphenylhydrazine	5.0	U	5.0	0.70	ug/L		04/25/13 07:41	04/25/13 16:53	1
Disulfoton	10	U	10	1.4	ug/L		04/25/13 07:41	04/25/13 16:53	1
Ethyl 4,4'-Dichlorobenzilate	5.0	U	5.0	1.4	ug/L		04/25/13 07:41	04/25/13 16:53	1
Ethyl methanesulfonate	5.0	U	5.0	2.0	ug/L		04/25/13 07:41	04/25/13 16:53	1
Ethyl Parathion	10	U	10	1.7	ug/L		04/25/13 07:41	04/25/13 16:53	1
Famphur	10	U	10	1.5	ug/L		04/25/13 07:41	04/25/13 16:53	1
Fluoranthene	1.0	U	1.0	0.32	ug/L		04/25/13 07:41	04/25/13 16:53	1
Fluorene	1.0	U	1.0	0.38	ug/L		04/25/13 07:41	04/25/13 16:53	1
Hexachlorobenzene	0.50	U	0.50	0.14	ug/L		04/25/13 07:41	04/25/13 16:53	1
Hexachlorobutadiene	5.0	U	5.0	1.1	ug/L		04/25/13 07:41	04/25/13 16:53	1
Hexachlorocyclopentadiene	20	U	20	3.4	ug/L		04/25/13 07:41	04/25/13 16:53	1
Hexachloroethane	5.0	U	5.0	0.97	ug/L		04/25/13 07:41	04/25/13 16:53	1
Hexachlorophene	100	U	100	52	ug/L		04/25/13 07:41	04/25/13 16:53	1
Hexachloropropene	20	U	20	3.0	ug/L		04/25/13 07:41	04/25/13 16:53	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.084	ug/L		04/25/13 07:41	04/25/13 16:53	1
Isophorone	2.0	U	2.0	0.29	ug/L		04/25/13 07:41	04/25/13 16:53	1
Isosafrole	5.0	U	5.0	1.8	ug/L		04/25/13 07:41	04/25/13 16:53	1
Malathion	10	U	10	1.7	ug/L		04/25/13 07:41	04/25/13 16:53	1
m-Dinitrobenzene	5.0	U	5.0	1.9	ug/L		04/25/13 07:41	04/25/13 16:53	1
Methapyrilene	40	U	40	6.5	ug/L		04/25/13 07:41	04/25/13 16:53	1
3-Methylcholanthrene	5.0	U	5.0	0.98	ug/L		04/25/13 07:41	04/25/13 16:53	1
Methyl methanesulfonate	5.0	U	5.0	1.8	ug/L		04/25/13 07:41	04/25/13 16:53	1
2-Methylnaphthalene	0.50	U	0.50	0.13	ug/L		04/25/13 07:41	04/25/13 16:53	1
Methyl parathion	10	U	10	1.6	ug/L		04/25/13 07:41	04/25/13 16:53	1
2-Methylphenol	2.0	U	2.0	0.31	ug/L		04/25/13 07:41	04/25/13 16:53	1
3 & 4 Methylphenol	2.0	U ^	2.0	0.44	ug/L		04/25/13 07:41	04/25/13 16:53	1
Naphthalene	1.0	U	1.0	0.30	ug/L		04/25/13 07:41	04/25/13 16:53	1
1,4-Naphthoquinone	10	U	10	1.7	ug/L		04/25/13 07:41	04/25/13 16:53	1
1-Naphthylamine	10	U	10	1.4	ug/L		04/25/13 07:41	04/25/13 16:53	1
2-Naphthylamine	10	U	10	1.4	ug/L		04/25/13 07:41	04/25/13 16:53	1
2-Nitroaniline	5.0	U	5.0	1.1	ug/L		04/25/13 07:41	04/25/13 16:53	1
3-Nitroaniline	10	U	10	2.3	ug/L		04/25/13 07:41	04/25/13 16:53	1
4-Nitroaniline	10	U	10	3.9	ug/L		04/25/13 07:41	04/25/13 16:53	1
Nitrobenzene	1.0	U	1.0	0.45	ug/L		04/25/13 07:41	04/25/13 16:53	1
5-Nitro-o-toluidine	5.0	U	5.0	1.6	ug/L		04/25/13 07:41	04/25/13 16:53	1
2-Nitrophenol	10	U	10	2.1	ug/L		04/25/13 07:41	04/25/13 16:53	1
4-Nitrophenol	20	U	20	2.3	ug/L		04/25/13 07:41	04/25/13 16:53	1
4-Nitroquinoline-1-oxide	20	U	20	12	ug/L		04/25/13 07:41	04/25/13 16:53	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-184113/1-A
Matrix: Water
Analysis Batch: 184148

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184113

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiethylamine	5.0	U	5.0	1.1	ug/L		04/25/13 07:41	04/25/13 16:53	1
N-Nitrosodimethylamine	10	U	10	1.4	ug/L		04/25/13 07:41	04/25/13 16:53	1
N-Nitrosodi-n-butylamine	5.0	U	5.0	0.98	ug/L		04/25/13 07:41	04/25/13 16:53	1
N-Nitrosodi-n-propylamine	0.50	U	0.50	0.14	ug/L		04/25/13 07:41	04/25/13 16:53	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.34	ug/L		04/25/13 07:41	04/25/13 16:53	1
N-Nitrosomethylethylamine	5.0	U	5.0	1.1	ug/L		04/25/13 07:41	04/25/13 16:53	1
N-Nitrosomorpholine	5.0	U	5.0	2.4	ug/L		04/25/13 07:41	04/25/13 16:53	1
N-Nitrosopiperidine	5.0	U	5.0	0.81	ug/L		04/25/13 07:41	04/25/13 16:53	1
N-Nitrosopyrrolidine	5.0	U	5.0	0.79	ug/L		04/25/13 07:41	04/25/13 16:53	1
o,o',o''-Triethylphosphorothioate	10	U	10	1.5	ug/L		04/25/13 07:41	04/25/13 16:53	1
o-Toluidine	5.0	U	5.0	1.6	ug/L		04/25/13 07:41	04/25/13 16:53	1
2,2'-oxybis[1-chloropropane]	2.0	U	2.0	0.30	ug/L		04/25/13 07:41	04/25/13 16:53	1
p-Dimethylamino azobenzene	5.0	U	5.0	1.3	ug/L		04/25/13 07:41	04/25/13 16:53	1
Pentachlorobenzene	5.0	U	5.0	1.1	ug/L		04/25/13 07:41	04/25/13 16:53	1
Pentachloronitrobenzene	5.0	U	5.0	1.7	ug/L		04/25/13 07:41	04/25/13 16:53	1
Pentachlorophenol	20	U	20	5.6	ug/L		04/25/13 07:41	04/25/13 16:53	1
Phenacetin	5.0	U	5.0	1.8	ug/L		04/25/13 07:41	04/25/13 16:53	1
Phenanthrene	1.0	U	1.0	0.35	ug/L		04/25/13 07:41	04/25/13 16:53	1
Phenol	5.0	U ^	5.0	0.36	ug/L		04/25/13 07:41	04/25/13 16:53	1
Phorate	10	U	10	1.5	ug/L		04/25/13 07:41	04/25/13 16:53	1
2-Picoline	10	U	10	1.3	ug/L		04/25/13 07:41	04/25/13 16:53	1
p-Phenylene diamine	40	U	40	20	ug/L		04/25/13 07:41	04/25/13 16:53	1
Pronamide	10	U	10	1.1	ug/L		04/25/13 07:41	04/25/13 16:53	1
Pyrene	1.0	U	1.0	0.48	ug/L		04/25/13 07:41	04/25/13 16:53	1
Pyridine	20	U	20	7.2	ug/L		04/25/13 07:41	04/25/13 16:53	1
Safrole	5.0	U	5.0	1.9	ug/L		04/25/13 07:41	04/25/13 16:53	1
Sulfotepp	10	U	10	1.1	ug/L		04/25/13 07:41	04/25/13 16:53	1
sym-Trinitrobenzene	5.0	U	5.0	2.3	ug/L		04/25/13 07:41	04/25/13 16:53	1
1,2,4,5-Tetrachlorobenzene	5.0	U	5.0	1.2	ug/L		04/25/13 07:41	04/25/13 16:53	1
2,3,4,6-Tetrachlorophenol	5.0	U	5.0	1.5	ug/L		04/25/13 07:41	04/25/13 16:53	1
Thionazin	10	U	10	1.8	ug/L		04/25/13 07:41	04/25/13 16:53	1
1,2,4-Trichlorobenzene	2.0	U	2.0	0.30	ug/L		04/25/13 07:41	04/25/13 16:53	1
2,4,5-Trichlorophenol	10	U	10	2.3	ug/L		04/25/13 07:41	04/25/13 16:53	1
2,4,6-Trichlorophenol	5.0	U	5.0	1.1	ug/L		04/25/13 07:41	04/25/13 16:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*102*		*48 - 110*	*04/25/13 07:41*	*04/25/13 16:53*	*1*
2-Fluorophenol	*65*		*20 - 100*	*04/25/13 07:41*	*04/25/13 16:53*	*1*
Nitrobenzene-d5	*102*		*41 - 110*	*04/25/13 07:41*	*04/25/13 16:53*	*1*
Phenol-d5	*46*		*20 - 100*	*04/25/13 07:41*	*04/25/13 16:53*	*1*
Terphenyl-d14	*107*		*44 - 132*	*04/25/13 07:41*	*04/25/13 16:53*	*1*
2,4,6-Tribromophenol	*104*		*50 - 129*	*04/25/13 07:41*	*04/25/13 16:53*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-184113/2-A
Matrix: Water
Analysis Batch: 184148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184113

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	50.0	41.0		ug/L		82	53 - 110
Acenaphthylene	50.0	39.7		ug/L		79	56 - 110
Acetophenone	50.0	42.3		ug/L		85	48 - 110
Aniline	50.0	31.6		ug/L		63	29 - 100
Anthracene	50.0	42.1		ug/L		84	58 - 110
Benzidine	50.0	40	U *	ug/L		7	10 - 100
Benzo[a]anthracene	50.0	43.1		ug/L		86	62 - 110
Benzo[a]pyrene	50.0	44.6		ug/L		89	63 - 110
Benzo[b]fluoranthene	50.0	43.4		ug/L		87	60 - 111
Benzo[g,h,i]perylene	50.0	44.1		ug/L		88	56 - 123
Benzoic acid	50.0	19.6	J ^	ug/L		39	10 - 100
Benzo[k]fluoranthene	50.0	40.6		ug/L		81	59 - 116
Benzyl alcohol	50.0	36.8		ug/L		74	42 - 110
Bis(2-chloroethoxy)methane	50.0	39.9		ug/L		80	56 - 110
Bis(2-chloroethyl)ether	50.0	41.7		ug/L		83	49 - 110
Bis(2-ethylhexyl) phthalate	50.0	45.6		ug/L		91	62 - 122
4-Bromophenyl phenyl ether	50.0	46.0		ug/L		92	59 - 110
Butyl benzyl phthalate	50.0	46.4		ug/L		93	64 - 126
4-Chloroaniline	50.0	32.6	^	ug/L		65	47 - 110
4-Chloro-3-methylphenol	50.0	42.9		ug/L		86	52 - 111
2-Chloronaphthalene	50.0	38.7		ug/L		77	48 - 110
2-Chlorophenol	50.0	40.3		ug/L		81	50 - 110
4-Chlorophenyl phenyl ether	50.0	46.1		ug/L		92	59 - 110
Chrysene	50.0	40.2		ug/L		80	62 - 111
Dibenz(a,h)anthracene	50.0	43.3		ug/L		87	59 - 120
Dibenzofuran	50.0	42.1		ug/L		84	56 - 110
1,2-Dichlorobenzene	50.0	36.7		ug/L		73	34 - 100
1,3-Dichlorobenzene	50.0	34.6		ug/L		69	34 - 100
1,4-Dichlorobenzene	50.0	35.1		ug/L		70	33 - 100
3,3'-Dichlorobenzidine	50.0	37.4		ug/L		75	56 - 111
2,4-Dichlorophenol	50.0	42.5		ug/L		85	58 - 110
2,6-Dichlorophenol	50.0	41.6		ug/L		83	57 - 110
Diethyl phthalate	50.0	48.3		ug/L		97	63 - 110
3,3'-Dimethylbenzidine	50.0	19.0	J	ug/L		38	10 - 110
2,4-Dimethylphenol	50.0	40.0		ug/L		80	48 - 110
Dimethyl phthalate	50.0	45.5		ug/L		91	65 - 110
Di-n-butyl phthalate	50.0	45.5		ug/L		91	64 - 116
4,6-Dinitro-2-methylphenol	50.0	53.0		ug/L		106	58 - 121
2,4-Dinitrophenol	50.0	53.5		ug/L		107	25 - 148
2,4-Dinitrotoluene	50.0	53.1		ug/L		106	62 - 119
2,6-Dinitrotoluene	50.0	50.2		ug/L		100	63 - 110
Di-n-octyl phthalate	50.0	44.4		ug/L		89	59 - 131
Dinoseb	50.0	50.4		ug/L		101	40 - 110
1,4-Dioxane	50.0	14.6	J	ug/L		29	10 - 100
1,2-Diphenylhydrazine	50.0	45.8		ug/L		92	58 - 110
Fluoranthene	50.0	43.0		ug/L		86	62 - 112
Fluorene	50.0	42.9		ug/L		86	53 - 110
Hexachlorobenzene	50.0	43.1		ug/L		86	60 - 110

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-184113/2-A
Matrix: Water
Analysis Batch: 184148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184113

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	50.0	36.1		ug/L		72	28 - 110
Hexachlorocyclopentadiene	50.0	33.1		ug/L		66	15 - 110
Hexachloroethane	50.0	35.8		ug/L		72	29 - 100
Hexachloropropene	50.0	37.1		ug/L		74	23 - 110
Indeno[1,2,3-cd]pyrene	50.0	45.0		ug/L		90	61 - 117
Isophorone	50.0	38.6		ug/L		77	51 - 110
2-Methylnaphthalene	50.0	38.5		ug/L		77	39 - 110
2-Methylphenol	50.0	37.2		ug/L		74	42 - 100
3 & 4 Methylphenol	50.0	36.0	^	ug/L		72	38 - 110
Naphthalene	50.0	39.0		ug/L		78	39 - 110
2-Nitroaniline	50.0	53.7		ug/L		107	62 - 121
3-Nitroaniline	50.0	43.2		ug/L		86	55 - 113
4-Nitroaniline	50.0	46.7		ug/L		93	52 - 125
Nitrobenzene	50.0	40.0		ug/L		80	52 - 110
2-Nitrophenol	50.0	45.7		ug/L		91	56 - 110
4-Nitrophenol	50.0	24.7		ug/L		49	20 - 100
N-Nitrosodiethylamine	50.0	43.0		ug/L		86	53 - 110
N-Nitrosodimethylamine	50.0	25.7		ug/L		51	27 - 100
N-Nitrosodi-n-butylamine	50.0	41.8		ug/L		84	51 - 116
N-Nitrosodi-n-propylamine	50.0	39.1		ug/L		78	43 - 110
N-Nitrosodiphenylamine	50.0	42.7		ug/L		85	64 - 110
N-Nitrosomethylethylamine	50.0	39.4		ug/L		79	42 - 110
N-Nitrosopiperidine	50.0	41.8		ug/L		84	59 - 110
N-Nitrosopyrrolidine	50.0	41.6		ug/L		83	37 - 116
2,2'-oxybis[1-chloropropane]	50.0	36.1		ug/L		72	32 - 110
Pentachlorobenzene	50.0	44.3		ug/L		89	55 - 110
Pentachlorophenol	50.0	50.6		ug/L		101	42 - 127
Phenanthrene	50.0	42.3		ug/L		85	59 - 110
Phenol	50.0	20.0	^	ug/L		40	20 - 100
Pyrene	50.0	42.7		ug/L		85	58 - 115
Pyridine	50.0	17.8	J	ug/L		36	10 - 100
1,2,4,5-Tetrachlorobenzene	50.0	41.8		ug/L		84	42 - 110
2,3,4,6-Tetrachlorophenol	50.0	49.7		ug/L		99	60 - 112
1,2,4-Trichlorobenzene	50.0	36.9		ug/L		74	34 - 110
2,4,5-Trichlorophenol	50.0	41.7		ug/L		83	63 - 110
2,4,6-Trichlorophenol	50.0	43.2		ug/L		86	63 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*90*		*48 - 110*
2-Fluorophenol	*55*		*20 - 100*
Nitrobenzene-d5	*91*		*41 - 110*
Phenol-d5	*43*		*20 - 100*
Terphenyl-d14	*105*		*44 - 132*
2,4,6-Tribromophenol	*127*		*50 - 129*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-184113/3-A
Matrix: Water
Analysis Batch: 184148

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 184113

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	50.0	41.5		ug/L		83	53 - 110	1	20
Acenaphthylene	50.0	39.3		ug/L		79	56 - 110	1	20
Acetophenone	50.0	43.5		ug/L		87	48 - 110	3	20
Aniline	50.0	34.2		ug/L		68	29 - 100	8	20
Anthracene	50.0	41.5		ug/L		83	58 - 110	1	20
Benzidine	50.0	40	U *	ug/L		9	10 - 100	31	20
Benzo[a]anthracene	50.0	42.9		ug/L		86	62 - 110	0	20
Benzo[a]pyrene	50.0	45.6		ug/L		91	63 - 110	2	20
Benzo[b]fluoranthene	50.0	44.9		ug/L		90	60 - 111	3	20
Benzo[g,h,i]perylene	50.0	43.2		ug/L		86	56 - 123	2	20
Benzoic acid	50.0	24.2	^ *	ug/L		48	10 - 100	21	20
Benzo[k]fluoranthene	50.0	41.0		ug/L		82	59 - 116	1	20
Benzyl alcohol	50.0	38.9		ug/L		78	42 - 110	5	20
Bis(2-chloroethoxy)methane	50.0	40.4		ug/L		81	56 - 110	1	20
Bis(2-chloroethyl)ether	50.0	43.0		ug/L		86	49 - 110	3	20
Bis(2-ethylhexyl) phthalate	50.0	45.6		ug/L		91	62 - 122	0	20
4-Bromophenyl phenyl ether	50.0	46.5		ug/L		93	59 - 110	1	20
Butyl benzyl phthalate	50.0	45.8		ug/L		92	64 - 126	1	20
4-Chloroaniline	50.0	33.7	^	ug/L		67	47 - 110	3	20
4-Chloro-3-methylphenol	50.0	43.0		ug/L		86	52 - 111	0	20
2-Chloronaphthalene	50.0	38.9		ug/L		78	48 - 110	0	20
2-Chlorophenol	50.0	41.8		ug/L		84	50 - 110	4	20
4-Chlorophenyl phenyl ether	50.0	46.5		ug/L		93	59 - 110	1	20
Chrysene	50.0	39.7		ug/L		79	62 - 111	1	20
Dibenz(a,h)anthracene	50.0	43.5		ug/L		87	59 - 120	0	20
Dibenzofuran	50.0	41.9		ug/L		84	56 - 110	1	20
1,2-Dichlorobenzene	50.0	39.1		ug/L		78	34 - 100	6	20
1,3-Dichlorobenzene	50.0	36.8		ug/L		74	34 - 100	6	20
1,4-Dichlorobenzene	50.0	37.0		ug/L		74	33 - 100	5	20
3,3'-Dichlorobenzidine	50.0	37.1		ug/L		74	56 - 111	1	20
2,4-Dichlorophenol	50.0	42.6		ug/L		85	58 - 110	0	20
2,6-Dichlorophenol	50.0	41.6		ug/L		83	57 - 110	0	20
Diethyl phthalate	50.0	47.0		ug/L		94	63 - 110	3	20
3,3'-Dimethylbenzidine	50.0	19.9	J	ug/L		40	10 - 110	5	20
2,4-Dimethylphenol	50.0	39.9		ug/L		80	48 - 110	0	20
Dimethyl phthalate	50.0	44.0		ug/L		88	65 - 110	3	20
Di-n-butyl phthalate	50.0	45.8		ug/L		92	64 - 116	1	20
4,6-Dinitro-2-methylphenol	50.0	53.7		ug/L		107	58 - 121	1	20
2,4-Dinitrophenol	50.0	54.8		ug/L		110	25 - 148	3	20
2,4-Dinitrotoluene	50.0	51.3		ug/L		103	62 - 119	3	20
2,6-Dinitrotoluene	50.0	49.3		ug/L		99	63 - 110	2	20
Di-n-octyl phthalate	50.0	46.0		ug/L		92	59 - 131	3	20
Dinoseb	50.0	51.9		ug/L		104	40 - 110	3	20
1,4-Dioxane	50.0	17.2	J	ug/L		34	10 - 100	16	20
1,2-Diphenylhydrazine	50.0	45.0		ug/L		90	58 - 110	2	20
Fluoranthene	50.0	42.3		ug/L		85	62 - 112	2	20
Fluorene	50.0	42.0		ug/L		84	53 - 110	2	20
Hexachlorobenzene	50.0	43.9		ug/L		88	60 - 110	2	20

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-184113/3-A
Matrix: Water
Analysis Batch: 184148

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 184113

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobutadiene			50.0	38.1		ug/L		76	28 - 110	5	20
Hexachlorocyclopentadiene			50.0	34.4		ug/L		69	15 - 110	4	20
Hexachloroethane			50.0	38.2		ug/L		76	29 - 100	7	20
Hexachloropropene			50.0	38.6		ug/L		77	23 - 110	4	20
Indeno[1,2,3-cd]pyrene			50.0	45.9		ug/L		92	61 - 117	2	20
Isophorone			50.0	38.8		ug/L		78	51 - 110	1	20
2-Methylnaphthalene			50.0	38.9		ug/L		78	39 - 110	1	20
2-Methylphenol			50.0	38.9		ug/L		78	42 - 100	4	20
3 & 4 Methylphenol			50.0	37.9	^	ug/L		76	38 - 110	5	20
Naphthalene			50.0	39.5		ug/L		79	39 - 110	1	20
2-Nitroaniline			50.0	52.8		ug/L		106	62 - 121	2	20
3-Nitroaniline			50.0	42.7		ug/L		85	55 - 113	1	20
4-Nitroaniline			50.0	46.5		ug/L		93	52 - 125	0	20
Nitrobenzene			50.0	41.0		ug/L		82	52 - 110	2	20
2-Nitrophenol			50.0	46.4		ug/L		93	56 - 110	2	20
4-Nitrophenol			50.0	27.2		ug/L		54	20 - 100	10	20
N-Nitrosodiethylamine			50.0	44.5		ug/L		89	53 - 110	3	20
N-Nitrosodimethylamine			50.0	28.1		ug/L		56	27 - 100	9	20
N-Nitrosodi-n-butylamine			50.0	42.6		ug/L		85	51 - 116	2	20
N-Nitrosodi-n-propylamine			50.0	39.8		ug/L		80	43 - 110	2	20
N-Nitrosodiphenylamine			50.0	42.8		ug/L		86	64 - 110	0	20
N-Nitrosomethylethylamine			50.0	40.4		ug/L		81	42 - 110	3	20
N-Nitrosopiperidine			50.0	41.9		ug/L		84	59 - 110	0	20
N-Nitrosopyrrolidine			50.0	43.5		ug/L		87	37 - 116	5	20
2,2'-oxybis[1-chloropropane]			50.0	37.1		ug/L		74	32 - 110	3	20
Pentachlorobenzene			50.0	44.4		ug/L		89	55 - 110	0	20
Pentachlorophenol			50.0	50.3		ug/L		101	42 - 127	1	20
Phenanthrene			50.0	41.9		ug/L		84	59 - 110	1	20
Phenol			50.0	22.2	^	ug/L		44	20 - 100	11	20
Pyrene			50.0	42.5		ug/L		85	58 - 115	1	20
Pyridine			50.0	19.0	J	ug/L		38	10 - 100	6	20
1,2,4,5-Tetrachlorobenzene			50.0	42.3		ug/L		85	42 - 110	1	20
2,3,4,6-Tetrachlorophenol			50.0	49.1		ug/L		98	60 - 112	1	20
1,2,4-Trichlorobenzene			50.0	37.6		ug/L		75	34 - 110	2	20
2,4,5-Trichlorophenol			50.0	44.2		ug/L		88	63 - 110	6	20
2,4,6-Trichlorophenol			50.0	43.8		ug/L		88	63 - 110	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*93*		*48 - 110*
2-Fluorophenol	*62*		*20 - 100*
Nitrobenzene-d5	*94*		*41 - 110*
Phenol-d5	*50*		*20 - 100*
Terphenyl-d14	*110*		*44 - 132*
2,4,6-Tribromophenol	*129*		*50 - 129*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-183366/1-A
Matrix: Water
Analysis Batch: 183459

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183366

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0059	ug/L		04/18/13 07:39	04/18/13 20:04	1
alpha-BHC	0.050	U	0.050	0.0071	ug/L		04/18/13 07:39	04/18/13 20:04	1
beta-BHC	0.050	U	0.050	0.0077	ug/L		04/18/13 07:39	04/18/13 20:04	1
Chlordane (technical)	0.10	U	0.10	0.038	ug/L		04/18/13 07:39	04/18/13 20:04	1
4,4'-DDD	0.050	U	0.050	0.0048	ug/L		04/18/13 07:39	04/18/13 20:04	1
4,4'-DDE	0.050	U	0.050	0.0043	ug/L		04/18/13 07:39	04/18/13 20:04	1
4,4'-DDT	0.050	U	0.050	0.011	ug/L		04/18/13 07:39	04/18/13 20:04	1
delta-BHC	0.050	U	0.050	0.0030	ug/L		04/18/13 07:39	04/18/13 20:04	1
Dieldrin	0.050	U	0.050	0.0033	ug/L		04/18/13 07:39	04/18/13 20:04	1
Endosulfan I	0.050	U	0.050	0.0030	ug/L		04/18/13 07:39	04/18/13 20:04	1
Endosulfan II	0.050	U	0.050	0.0058	ug/L		04/18/13 07:39	04/18/13 20:04	1
Endosulfan sulfate	0.050	U	0.050	0.0082	ug/L		04/18/13 07:39	04/18/13 20:04	1
Endrin	0.050	U	0.050	0.0085	ug/L		04/18/13 07:39	04/18/13 20:04	1
Endrin aldehyde	0.050	U	0.050	0.0091	ug/L		04/18/13 07:39	04/18/13 20:04	1
Endrin ketone	0.050	U	0.050	0.0088	ug/L		04/18/13 07:39	04/18/13 20:04	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0031	ug/L		04/18/13 07:39	04/18/13 20:04	1
Heptachlor	0.050	U	0.050	0.0081	ug/L		04/18/13 07:39	04/18/13 20:04	1
Heptachlor epoxide	0.050	U	0.050	0.010	ug/L		04/18/13 07:39	04/18/13 20:04	1
Isodrin	0.050	U	0.050	0.015	ug/L		04/18/13 07:39	04/18/13 20:04	1
Methoxychlor	0.10	U	0.10	0.014	ug/L		04/18/13 07:39	04/18/13 20:04	1
Toxaphene	0.50	U	0.50	0.15	ug/L		04/18/13 07:39	04/18/13 20:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*99*		*30 - 131*	*04/18/13 07:39*	*04/18/13 20:04*	*1*
Tetrachloro-m-xylene	*89*		*44 - 120*	*04/18/13 07:39*	*04/18/13 20:04*	*1*

Lab Sample ID: LCS 500-183366/2-A
Matrix: Water
Analysis Batch: 183459

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183366

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.400	0.392		ug/L		98	58 - 110
alpha-BHC	0.400	0.397		ug/L		99	72 - 113
beta-BHC	0.400	0.398		ug/L		100	77 - 115
4,4'-DDD	0.400	0.403		ug/L		101	78 - 129
4,4'-DDE	0.400	0.396		ug/L		99	74 - 120
4,4'-DDT	0.400	0.397		ug/L		99	61 - 122
delta-BHC	0.400	0.400		ug/L		100	77 - 122
Dieldrin	0.400	0.404		ug/L		101	75 - 119
Endosulfan I	0.400	0.366		ug/L		91	59 - 113
Endosulfan II	0.400	0.368		ug/L		92	68 - 120
Endosulfan sulfate	0.400	0.403		ug/L		101	75 - 136
Endrin	0.400	0.391		ug/L		98	73 - 121
Endrin aldehyde	0.400	0.419		ug/L		105	76 - 129
Endrin ketone	0.400	0.407		ug/L		102	75 - 135
gamma-BHC (Lindane)	0.400	0.407		ug/L		102	72 - 118
Heptachlor	0.400	0.451	*	ug/L		113	60 - 110
Heptachlor epoxide	0.400	0.427		ug/L		107	80 - 119

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-183366/2-A
Matrix: Water
Analysis Batch: 183459

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183366

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methoxychlor			0.400	0.406		ug/L		101	64 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*102*		*30 - 131*
Tetrachloro-m-xylene	*97*		*44 - 120*

Lab Sample ID: LCSD 500-183366/3-A
Matrix: Water
Analysis Batch: 183459

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 183366

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			0.400	0.383		ug/L		96	58 - 110	2	20
alpha-BHC			0.400	0.395		ug/L		99	72 - 113	0	20
beta-BHC			0.400	0.400		ug/L		100	77 - 115	0	20
4,4'-DDD			0.400	0.409		ug/L		102	78 - 129	1	20
4,4'-DDE			0.400	0.401		ug/L		100	74 - 120	1	20
4,4'-DDT			0.400	0.405		ug/L		101	61 - 122	2	20
delta-BHC			0.400	0.410		ug/L		103	77 - 122	3	20
Dieldrin			0.400	0.413		ug/L		103	75 - 119	2	20
Endosulfan I			0.400	0.372		ug/L		93	59 - 113	2	20
Endosulfan II			0.400	0.374		ug/L		94	68 - 120	2	20
Endosulfan sulfate			0.400	0.420		ug/L		105	75 - 136	4	20
Endrin			0.400	0.391		ug/L		98	73 - 121	0	20
Endrin aldehyde			0.400	0.424		ug/L		106	76 - 129	1	20
Endrin ketone			0.400	0.415		ug/L		104	75 - 135	2	20
gamma-BHC (Lindane)			0.400	0.408		ug/L		102	72 - 118	0	20
Heptachlor			0.400	0.437		ug/L		109	60 - 110	3	20
Heptachlor epoxide			0.400	0.437		ug/L		109	80 - 119	2	20
Methoxychlor			0.400	0.413		ug/L		103	64 - 126	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*108*		*30 - 131*
Tetrachloro-m-xylene	*96*		*44 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-183366/1-A
Matrix: Water
Analysis Batch: 183517

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183366

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.50	U	0.50	0.16	ug/L		04/18/13 07:39	04/19/13 08:37	1
PCB-1221	0.50	U	0.50	0.24	ug/L		04/18/13 07:39	04/19/13 08:37	1
PCB-1232	0.50	U	0.50	0.086	ug/L		04/18/13 07:39	04/19/13 08:37	1
PCB-1242	0.50	U	0.50	0.12	ug/L		04/18/13 07:39	04/19/13 08:37	1
PCB-1248	0.50	U	0.50	0.10	ug/L		04/18/13 07:39	04/19/13 08:37	1
PCB-1254	0.50	U	0.50	0.10	ug/L		04/18/13 07:39	04/19/13 08:37	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 500-183366/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 183517 — **Prep Batch: 183366**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	0.50	U	0.50	0.11	ug/L		04/18/13 07:39	04/19/13 08:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*50 - 120*	*04/18/13 07:39*	*04/19/13 08:37*	*1*
DCB Decachlorobiphenyl	*93*		*29 - 126*	*04/18/13 07:39*	*04/19/13 08:37*	*1*

Lab Sample ID: LCS 500-183366/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 183517 — **Prep Batch: 183366**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			5.01	4.23		ug/L		84	64 - 110		
PCB-1260			5.02	4.02		ug/L		80	51 - 110		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*87*		*50 - 120*
DCB Decachlorobiphenyl	*63*		*29 - 126*

Lab Sample ID: LCSD 500-183366/5-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 183517 — **Prep Batch: 183366**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			5.01	4.37		ug/L		87	64 - 110	3	20
PCB-1260			5.02	4.23		ug/L		84	51 - 110	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*90*		*50 - 120*
DCB Decachlorobiphenyl	*82*		*29 - 126*

Method: 8141A - Organophosphorous Pesticides (GC)

Lab Sample ID: MB 640-101150/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 101203 — **Prep Batch: 101150**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	2.0	U	2.0	0.38	ug/L		04/18/13 18:17	04/22/13 11:56	1
Azinphos-methyl	1.0	U	1.0	0.33	ug/L		04/18/13 18:17	04/22/13 11:56	1
Bolstar	1.0	U	1.0	0.095	ug/L		04/18/13 18:17	04/22/13 11:56	1
Carbophenthion	1.0	U	1.0	0.086	ug/L		04/18/13 18:17	04/22/13 11:56	1
Chlorpyrifos	1.0	U	1.0	0.11	ug/L		04/18/13 18:17	04/22/13 11:56	1
Chlorpyrifos-methyl	1.0	U	1.0	0.083	ug/L		04/18/13 18:17	04/22/13 11:56	1
Coumaphos	1.0	U	1.0	0.081	ug/L		04/18/13 18:17	04/22/13 11:56	1
Demeton, Total	2.5	U	2.5	0.15	ug/L		04/18/13 18:17	04/22/13 11:56	1
Demeton-O	2.5	U	2.5	0.11	ug/L		04/18/13 18:17	04/22/13 11:56	1
Demeton-S	2.5	U	2.5	0.060	ug/L		04/18/13 18:17	04/22/13 11:56	1

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: MB 640-101150/1-A
Matrix: Water
Analysis Batch: 101203

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diazinon	1.0	U	1.0	0.11	ug/L		04/18/13 18:17	04/22/13 11:56	1
Dichlofenthion	1.0	U	1.0	0.14	ug/L		04/18/13 18:17	04/22/13 11:56	1
Dichlorvos	2.0	U	2.0	0.26	ug/L		04/18/13 18:17	04/22/13 11:56	1
Dimethoate	2.0	U	2.0	0.32	ug/L		04/18/13 18:17	04/22/13 11:56	1
Disulfoton	2.0	U	2.0	0.12	ug/L		04/18/13 18:17	04/22/13 11:56	1
EPN	1.0	U	1.0	0.071	ug/L		04/18/13 18:17	04/22/13 11:56	1
Ethion	0.50	U	0.50	0.11	ug/L		04/18/13 18:17	04/22/13 11:56	1
Famphur	2.0	U	2.0	0.11	ug/L		04/18/13 18:17	04/22/13 11:56	1
Fensulfothion	5.0	U	5.0	0.17	ug/L		04/18/13 18:17	04/22/13 11:56	1
Fenthion	1.0	U	1.0	0.11	ug/L		04/18/13 18:17	04/22/13 11:56	1
Malathion	1.0	U	1.0	0.092	ug/L		04/18/13 18:17	04/22/13 11:56	1
Merphos	1.0	U	1.0	0.13	ug/L		04/18/13 18:17	04/22/13 11:56	1
Methyl parathion	0.50	U	0.50	0.12	ug/L		04/18/13 18:17	04/22/13 11:56	1
Mevinphos	2.0	U	2.0	0.15	ug/L		04/18/13 18:17	04/22/13 11:56	1
Ethoprop	0.50	U	0.50	0.41	ug/L		04/18/13 18:17	04/22/13 11:56	1
Monochrotophos	10	U	10	2.6	ug/L		04/18/13 18:17	04/22/13 11:56	1
Naled	5.0	U	5.0	0.36	ug/L		04/18/13 18:17	04/22/13 11:56	1
Ethyl Parathion	1.0	U	1.0	0.080	ug/L		04/18/13 18:17	04/22/13 11:56	1
Phorate	1.0	U	1.0	0.16	ug/L		04/18/13 18:17	04/22/13 11:56	1
Ronnel	1.0	U	1.0	0.13	ug/L		04/18/13 18:17	04/22/13 11:56	1
Simazine	2.0	U	2.0	0.37	ug/L		04/18/13 18:17	04/22/13 11:56	1
Stirophos (Tetrachlorvinphos)	1.0	U	1.0	0.084	ug/L		04/18/13 18:17	04/22/13 11:56	1
Sulfotepp	0.50	U	0.50	0.055	ug/L		04/18/13 18:17	04/22/13 11:56	1
Terbufos	1.0	U	1.0	0.082	ug/L		04/18/13 18:17	04/22/13 11:56	1
Thionazin	1.0	U	1.0	0.061	ug/L		04/18/13 18:17	04/22/13 11:56	1
Tokuthion	1.0	U	1.0	0.087	ug/L		04/18/13 18:17	04/22/13 11:56	1
Trichloronate	1.0	U	1.0	0.11	ug/L		04/18/13 18:17	04/22/13 11:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate (TPP)	*96*		*37 - 139*	*04/18/13 18:17*	*04/22/13 11:56*	*1*

Lab Sample ID: LCS 640-101150/2-A
Matrix: Water
Analysis Batch: 101203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	10.0	11.3		ug/L		113	49 - 139
Azinphos-methyl	2.50	2.46		ug/L		98	50 - 130
Bolstar	2.50	2.64		ug/L		106	50 - 130
Chlorpyrifos	2.50	2.66		ug/L		106	50 - 130
Coumaphos	2.50	2.36		ug/L		94	50 - 130
Demeton, Total	5.00	3.95		ug/L		79	
Diazinon	2.50	2.64		ug/L		106	42 - 132
Dichlofenthion	2.50	2.52		ug/L		101	50 - 130
Dichlorvos	2.50	2.22		ug/L		89	50 - 130
EPN	2.50	3.60	*	ug/L		144	50 - 130
Ethion	2.50	2.83		ug/L		113	50 - 130
Famphur	2.50	2.88		ug/L		115	50 - 130

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: LCS 640-101150/2-A
Matrix: Water
Analysis Batch: 101203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fensulfothion	2.50	2.64	J	ug/L		106	50 - 130
Fenthion	2.50	2.40		ug/L		96	50 - 130
Malathion	2.50	2.72		ug/L		109	50 - 130
Methyl parathion	2.50	2.80		ug/L		112	43 - 140
Mevinphos	2.50	2.08		ug/L		83	50 - 130
Ethoprop	2.50	2.59		ug/L		103	50 - 130
Monochrotophos	10.0	3.18	J	ug/L		32	10 - 100
Naled	10.0	8.81		ug/L		88	50 - 130
Ethyl Parathion	2.50	3.10		ug/L		124	49 - 134
Phorate	2.50	2.18		ug/L		87	50 - 130
Ronnel	2.50	2.38		ug/L		95	38 - 124
Simazine	10.0	8.25		ug/L		82	50 - 130
Tokuthion	2.50	2.64		ug/L		106	50 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate (TPP)	*118*		*37 - 139*

Lab Sample ID: LCSD 640-101150/3-A
Matrix: Water
Analysis Batch: 101203

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101150

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Atrazine	10.0	9.28		ug/L		93	49 - 139	20	30
Azinphos-methyl	2.50	2.49		ug/L		100	50 - 130	1	30
Bolstar	2.50	2.42		ug/L		97	50 - 130	9	30
Chlorpyrifos	2.50	2.31		ug/L		93	50 - 130	14	30
Coumaphos	2.50	3.02		ug/L		121	50 - 130	24	30
Demeton, Total	5.00	3.48		ug/L		70		13	
Diazinon	2.50	2.18		ug/L		87	42 - 132	19	30
Dichlofenthion	2.50	2.33		ug/L		93	50 - 130	8	30
Dichlorvos	2.50	1.63	J *	ug/L		65	50 - 130	31	30
EPN	2.50	3.33	*	ug/L		133	50 - 130	8	30
Ethion	2.50	2.55		ug/L		102	50 - 130	10	30
Famphur	2.50	2.62		ug/L		105	50 - 130	10	30
Fensulfothion	2.50	2.67	J	ug/L		107	50 - 130	1	30
Fenthion	2.50	2.09		ug/L		84	50 - 130	14	30
Malathion	2.50	2.34		ug/L		94	50 - 130	15	30
Methyl parathion	2.50	2.48		ug/L		99	43 - 140	12	30
Mevinphos	2.50	1.77	J	ug/L		71	50 - 130	16	30
Ethoprop	2.50	2.15		ug/L		86	50 - 130	18	30
Monochrotophos	10.0	4.04	J	ug/L		40	10 - 100	24	30
Naled	10.0	8.00		ug/L		80	50 - 130	10	30
Ethyl Parathion	2.50	2.72		ug/L		109	49 - 134	13	30
Phorate	2.50	1.83		ug/L		73	50 - 130	17	30
Ronnel	2.50	2.12		ug/L		85	38 - 124	12	30
Simazine	10.0	7.40		ug/L		74	50 - 130	11	30
Tokuthion	2.50	2.53		ug/L		101	50 - 130	4	30

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: LCSD 640-101150/3-A
Matrix: Water
Analysis Batch: 101203

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101150

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Triphenylphosphate (TPP)	*111*		*37 - 139*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-273513/1-A
Matrix: Water
Analysis Batch: 273974

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 273513

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	50	ug/L		04/18/13 09:16	04/21/13 09:47	1
Antimony	5.0	U	5.0	2.0	ug/L		04/18/13 09:16	04/21/13 09:47	1
Arsenic	2.5	U	2.5	1.3	ug/L		04/18/13 09:16	04/21/13 09:47	1
Barium	5.0	U	5.0	1.4	ug/L		04/18/13 09:16	04/21/13 09:47	1
Beryllium	0.50	U	0.50	0.15	ug/L		04/18/13 09:16	04/21/13 09:47	1
Cadmium	0.50	U	0.50	0.13	ug/L		04/18/13 09:16	04/21/13 09:47	1
Calcium	500	U	500	170	ug/L		04/18/13 09:16	04/21/13 09:47	1
Chromium	5.0	U	5.0	2.5	ug/L		04/18/13 09:16	04/21/13 09:47	1
Cobalt	0.50	U	0.50	0.12	ug/L		04/18/13 09:16	04/21/13 09:47	1
Copper	5.0	U	5.0	1.1	ug/L		04/18/13 09:16	04/21/13 09:47	1
Lead	1.5	U	1.5	0.50	ug/L		04/18/13 09:16	04/21/13 09:47	1
Magnesium	250	U	250	100	ug/L		04/18/13 09:16	04/21/13 09:47	1
Manganese	5.0	U	5.0	2.0	ug/L		04/18/13 09:16	04/21/13 09:47	1
Nickel	5.0	U	5.0	2.0	ug/L		04/18/13 09:16	04/21/13 09:47	1
Potassium	1000	U	1000	330	ug/L		04/18/13 09:16	04/21/13 09:47	1
Selenium	2.5	U	2.5	1.1	ug/L		04/18/13 09:16	04/21/13 09:47	1
Sodium	500	U	500	170	ug/L		04/18/13 09:16	04/21/13 09:47	1
Thallium	1.0	U	1.0	0.25	ug/L		04/18/13 09:16	04/21/13 09:47	1
Vanadium	10	U	10	3.2	ug/L		04/18/13 09:16	04/21/13 09:47	1
Zinc	20	U	20	8.4	ug/L		04/18/13 09:16	04/21/13 09:47	1

Lab Sample ID: LCS 680-273513/2-A
Matrix: Water
Analysis Batch: 273974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 273513

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5000	5470		ug/L		109	75 - 125
Antimony	50.0	54.9		ug/L		110	75 - 125
Arsenic	100	110		ug/L		110	75 - 125
Barium	100	108		ug/L		108	75 - 125
Beryllium	50.0	53.8		ug/L		108	75 - 125
Cadmium	50.0	52.2		ug/L		104	75 - 125
Calcium	5000	5600		ug/L		112	75 - 125
Chromium	100	109		ug/L		109	75 - 125
Cobalt	50.0	53.7		ug/L		107	75 - 125
Copper	100	104		ug/L		104	75 - 125
Lead	50.0	51.3		ug/L		103	75 - 125
Magnesium	5000	5420		ug/L		108	75 - 125
Manganese	500	555		ug/L		111	75 - 125

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-273513/2-A
Matrix: Water
Analysis Batch: 273974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 273513

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	100	109		ug/L		109	75 - 125
Potassium	5000	5140		ug/L		103	75 - 125
Selenium	100	108		ug/L		108	75 - 125
Sodium	5000	5330		ug/L		107	75 - 125
Thallium	40.0	41.1		ug/L		103	75 - 125
Vanadium	100	109		ug/L		109	75 - 125
Zinc	100	108		ug/L		108	75 - 125

Lab Sample ID: MB 680-273985/1-A
Matrix: Water
Analysis Batch: 274580

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 273985

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	100	U	100	44	ug/L		04/22/13 16:33	04/25/13 14:32	1
Silver	1.0	U	1.0	0.18	ug/L		04/22/13 16:33	04/25/13 14:32	1

Lab Sample ID: LCS 680-273985/3-A
Matrix: Water
Analysis Batch: 274580

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 273985

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	20000	18900		ug/L		94	75 - 125
Silver	200	204		ug/L		102	75 - 125

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-273229/1-A
Matrix: Water
Analysis Batch: 273393

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 273229

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		04/16/13 12:37	04/17/13 11:06	1

Lab Sample ID: LCS 680-273229/2-A
Matrix: Water
Analysis Batch: 273393

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 273229

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.47		ug/L		99	80 - 120

Lab Sample ID: 680-89352-1 MS
Matrix: Water
Analysis Batch: 273393

Client Sample ID: DDMW-3-20130415-01
Prep Type: Total/NA
Prep Batch: 273229

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.20	U	1.00	0.898		ug/L		90	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 680-89352-1 MSD — **Client Sample ID: DDMW-3-20130415-01**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 273393 — **Prep Batch: 273229**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	0.937		ug/L		94	80 - 120	4	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 680-273287/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 273287

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	10	U	10	3.0	ug/L			04/16/13 09:31	1

Lab Sample ID: LCS 680-273287/1 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 273287

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	200	199		ug/L		100	85 - 115

Lab Sample ID: 680-89352-1 MS — **Client Sample ID: DDMW-3-20130415-01**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 273287

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	10	U	200	203		ug/L		102	85 - 115

Lab Sample ID: 680-89352-1 MSD — **Client Sample ID: DDMW-3-20130415-01**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 273287

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	10	U	200	204		ug/L		102	85 - 115	0	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 680-273651/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 273750 — **Prep Batch: 273651**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	10	U	10	5.0	ug/L		04/19/13 07:15	04/19/13 12:57	1

Lab Sample ID: LCS 680-273651/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 273750 — **Prep Batch: 273651**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	50.0	47.1		ug/L		94	85 - 115

GC/MS VOA

Analysis Batch: 274199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89352-1	DDMW-3-20130415-01	Total/NA	Water	8260B	
680-89352-2	DDMW-4-20130415-01	Total/NA	Water	8260B	
680-89352-3	TB-01-20130415-01	Total/NA	Water	8260B	
LCS 680-274199/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-274199/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-274199/7	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 183383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89352-1	DDMW-3-20130415-01	Total/NA	Water	3510C	
680-89352-2	DDMW-4-20130415-01	Total/NA	Water	3510C	
LCS 500-183383/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-183383/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 500-183383/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 183989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89352-1	DDMW-3-20130415-01	Total/NA	Water	8270C	183383
680-89352-2	DDMW-4-20130415-01	Total/NA	Water	8270C	183383
LCS 500-183383/2-A	Lab Control Sample	Total/NA	Water	8270C	183383
LCSD 500-183383/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	183383
MB 500-183383/1-A	Method Blank	Total/NA	Water	8270C	183383

Prep Batch: 184113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89352-1 - RE	DDMW-3-20130415-01	Total/NA	Water	3510C	
LCS 500-184113/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-184113/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 500-184113/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 184148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89352-1 - RE	DDMW-3-20130415-01	Total/NA	Water	8270C	184113
LCS 500-184113/2-A	Lab Control Sample	Total/NA	Water	8270C	184113
LCSD 500-184113/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	184113
MB 500-184113/1-A	Method Blank	Total/NA	Water	8270C	184113

GC Semi VOA

Prep Batch: 101150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89352-1	DDMW-3-20130415-01	Total/NA	Water	3520C	
680-89352-2	DDMW-4-20130415-01	Total/NA	Water	3520C	
LCS 640-101150/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 640-101150/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 640-101150/1-A	Method Blank	Total/NA	Water	3520C	

GC Semi VOA (Continued)

Analysis Batch: 101203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89352-1	DDMW-3-20130415-01	Total/NA	Water	8141A	101150
680-89352-2	DDMW-4-20130415-01	Total/NA	Water	8141A	101150
LCS 640-101150/2-A	Lab Control Sample	Total/NA	Water	8141A	101150
LCSD 640-101150/3-A	Lab Control Sample Dup	Total/NA	Water	8141A	101150
MB 640-101150/1-A	Method Blank	Total/NA	Water	8141A	101150

Prep Batch: 183366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89352-1	DDMW-3-20130415-01	Total/NA	Water	3510C	
680-89352-2	DDMW-4-20130415-01	Total/NA	Water	3510C	
LCS 500-183366/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 500-183366/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-183366/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 500-183366/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 500-183366/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 183459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89352-1	DDMW-3-20130415-01	Total/NA	Water	8081A	183366
680-89352-2	DDMW-4-20130415-01	Total/NA	Water	8081A	183366
LCS 500-183366/2-A	Lab Control Sample	Total/NA	Water	8081A	183366
LCSD 500-183366/3-A	Lab Control Sample Dup	Total/NA	Water	8081A	183366
MB 500-183366/1-A	Method Blank	Total/NA	Water	8081A	183366

Analysis Batch: 183517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89352-1	DDMW-3-20130415-01	Total/NA	Water	8082	183366
680-89352-2	DDMW-4-20130415-01	Total/NA	Water	8082	183366
LCS 500-183366/4-A	Lab Control Sample	Total/NA	Water	8082	183366
LCSD 500-183366/5-A	Lab Control Sample Dup	Total/NA	Water	8082	183366
MB 500-183366/1-A	Method Blank	Total/NA	Water	8082	183366

Metals

Prep Batch: 273229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89352-1	DDMW-3-20130415-01	Total/NA	Water	7470A	
680-89352-1 MS	DDMW-3-20130415-01	Total/NA	Water	7470A	
680-89352-1 MSD	DDMW-3-20130415-01	Total/NA	Water	7470A	
680-89352-2	DDMW-4-20130415-01	Total/NA	Water	7470A	
LCS 680-273229/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-273229/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 273393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89352-1	DDMW-3-20130415-01	Total/NA	Water	7470A	273229
680-89352-1 MS	DDMW-3-20130415-01	Total/NA	Water	7470A	273229
680-89352-1 MSD	DDMW-3-20130415-01	Total/NA	Water	7470A	273229
680-89352-2	DDMW-4-20130415-01	Total/NA	Water	7470A	273229
LCS 680-273229/2-A	Lab Control Sample	Total/NA	Water	7470A	273229

Metals (Continued)

Analysis Batch: 273393 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-273229/1-A	Method Blank	Total/NA	Water	7470A	273229

Prep Batch: 273513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89352-1	DDMW-3-20130415-01	Total/NA	Water	3010A	
680-89352-2	DDMW-4-20130415-01	Total/NA	Water	3010A	
LCS 680-273513/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 680-273513/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 273974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89352-1	DDMW-3-20130415-01	Total/NA	Water	6020A	273513
680-89352-2	DDMW-4-20130415-01	Total/NA	Water	6020A	273513
LCS 680-273513/2-A	Lab Control Sample	Total/NA	Water	6020A	273513
MB 680-273513/1-A	Method Blank	Total/NA	Water	6020A	273513

Prep Batch: 273985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89352-1	DDMW-3-20130415-01	Total/NA	Water	3010A	
680-89352-2	DDMW-4-20130415-01	Total/NA	Water	3010A	
LCS 680-273985/3-A	Lab Control Sample	Total/NA	Water	3010A	
MB 680-273985/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 274580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89352-1	DDMW-3-20130415-01	Total/NA	Water	6020A	273985
680-89352-2	DDMW-4-20130415-01	Total/NA	Water	6020A	273985
LCS 680-273985/3-A	Lab Control Sample	Total/NA	Water	6020A	273985
MB 680-273985/1-A	Method Blank	Total/NA	Water	6020A	273985

General Chemistry

Analysis Batch: 273287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89352-1	DDMW-3-20130415-01	Total/NA	Water	7196A	
680-89352-1 MS	DDMW-3-20130415-01	Total/NA	Water	7196A	
680-89352-1 MSD	DDMW-3-20130415-01	Total/NA	Water	7196A	
680-89352-2	DDMW-4-20130415-01	Total/NA	Water	7196A	
LCS 680-273287/1	Lab Control Sample	Total/NA	Water	7196A	
MB 680-273287/2	Method Blank	Total/NA	Water	7196A	

Prep Batch: 273651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89352-1	DDMW-3-20130415-01	Total/NA	Water	9012A	
680-89352-2	DDMW-4-20130415-01	Total/NA	Water	9012A	
LCS 680-273651/2-A	Lab Control Sample	Total/NA	Water	9012A	
MB 680-273651/1-A	Method Blank	Total/NA	Water	9012A	

General Chemistry (Continued)

Analysis Batch: 273750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89352-1	DDMW-3-20130415-01	Total/NA	Water	9012A	273651
680-89352-2	DDMW-4-20130415-01	Total/NA	Water	9012A	273651
LCS 680-273651/2-A	Lab Control Sample	Total/NA	Water	9012A	273651
MB 680-273651/1-A	Method Blank	Total/NA	Water	9012A	273651

Lab Chronicle

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89352-1
SDG: AGL89352

Client Sample ID: DDMW-3-20130415-01

Lab Sample ID: 680-89352-1

Date Collected: 04/15/13 11:30
Matrix: Water
Date Received: 04/15/13 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	274199	04/24/13 18:06	AJMC	TAL SAV
Total/NA	Prep	3510C			982.2 mL	1.0 mL	183383	04/18/13 08:47	SCH	TAL CHI
Total/NA	Analysis	8270C		1			183989	04/24/13 18:09	PMF	TAL CHI
Total/NA	Prep	3510C	RE		1000.7 mL	1.0 mL	184113	04/25/13 07:41	SCH	TAL CHI
Total/NA	Analysis	8270C	RE	1			184148	04/25/13 17:17	GES	TAL CHI
Total/NA	Prep	3510C			993.9 mL	10.0 mL	183366	04/18/13 07:39	SCH	TAL CHI
Total/NA	Analysis	8081A		1			183459	04/18/13 21:03	PG	TAL CHI
Total/NA	Prep	3510C			993.9 mL	10.0 mL	183366	04/18/13 07:39	SCH	TAL CHI
Total/NA	Analysis	8082		1			183517	04/19/13 09:47	GMO	TAL CHI
Total/NA	Prep	3520C			1000 mL	5.0 mL	101150	04/18/13 18:17	QC	TAL TAL
Total/NA	Analysis	8141A		1			101203	04/22/13 12:40	MLT	TAL TAL
Total/NA	Prep	7470A			50 mL	50 mL	273229	04/16/13 12:37	UU	TAL SAV
Total/NA	Analysis	7470A		1			273393	04/17/13 11:11	BCB	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	273513	04/18/13 09:16	BB	TAL SAV
Total/NA	Analysis	6020A		1			273974	04/21/13 10:40	BR	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	273985	04/22/13 16:33	BB	TAL SAV
Total/NA	Analysis	6020A		1			274580	04/25/13 14:59	BR	TAL SAV
Total/NA	Analysis	7196A		1	2 mL	2 mL	273287	04/16/13 09:31	JE	TAL SAV
Total/NA	Prep	9012A			50 mL	50 mL	273651	04/19/13 07:15	DAM	TAL SAV
Total/NA	Analysis	9012A		1			273750	04/19/13 13:27	DAM	TAL SAV

Client Sample ID: DDMW-4-20130415-01

Lab Sample ID: 680-89352-2

Date Collected: 04/15/13 13:00
Matrix: Water
Date Received: 04/15/13 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	274199	04/24/13 17:36	AJMC	TAL SAV
Total/NA	Prep	3510C			942.8 mL	1.0 mL	183383	04/18/13 08:47	SCH	TAL CHI
Total/NA	Analysis	8270C		1			183989	04/24/13 18:33	PMF	TAL CHI
Total/NA	Prep	3510C			976.1 mL	10.0 mL	183366	04/18/13 07:39	SCH	TAL CHI
Total/NA	Analysis	8081A		1			183459	04/18/13 21:23	PG	TAL CHI
Total/NA	Prep	3510C			976.1 mL	10.0 mL	183366	04/18/13 07:39	SCH	TAL CHI
Total/NA	Analysis	8082		1			183517	04/19/13 10:01	GMO	TAL CHI
Total/NA	Prep	3520C			1000 mL	5.0 mL	101150	04/18/13 18:17	QC	TAL TAL
Total/NA	Analysis	8141A		1			101203	04/22/13 13:25	MLT	TAL TAL
Total/NA	Prep	7470A			50 mL	50 mL	273229	04/16/13 12:37	UU	TAL SAV
Total/NA	Analysis	7470A		1			273393	04/17/13 11:18	BCB	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	273513	04/18/13 09:16	BB	TAL SAV
Total/NA	Analysis	6020A		1			273974	04/21/13 10:47	BR	TAL SAV
Total/NA	Prep	3010A			50 mL	250 mL	273985	04/22/13 16:33	BB	TAL SAV
Total/NA	Analysis	6020A		1			274580	04/25/13 15:06	BR	TAL SAV
Total/NA	Analysis	7196A		5	2 mL	2 mL	273287	04/16/13 09:51	JE	TAL SAV
Total/NA	Prep	9012A			50 mL	50 mL	273651	04/19/13 07:15	DAM	TAL SAV

Lab Chronicle

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89352-1
SDG: AGL89352

Client Sample ID: DDMW-4-20130415-01

Lab Sample ID: 680-89352-2

Date Collected: 04/15/13 13:00
Matrix: Water
Date Received: 04/15/13 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9012A		1			273750	04/19/13 13:28	DAM	TAL SAV

Client Sample ID: TB-01-20130415-01

Lab Sample ID: 680-89352-3

Date Collected: 04/15/13 00:00
Matrix: Water
Date Received: 04/15/13 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	274199	04/24/13 16:05	AJMC	TAL SAV

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

Login Sample Receipt Checklist

Client: ERM-Southeast, Inc.

Job Number: 680-89352-1
SDG Number: AGL89352

Login Number: 89352
List Number: 1
Creator: Lunt, Jeff T

List Source: TestAmerica Chicago
List Creation: 04/17/13 11:46 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: ERM-Southeast, Inc.

Job Number: 680-89352-1
SDG Number: AGL89352

Login Number: 89352
List Number: 1
Creator: Delp, Eric

List Source: TestAmerica Tallahassee
List Creation: 04/17/13 12:52 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: ERM-Southeast, Inc.
Project/Site: Macon MGP Due Diligence AQ APR 2013

TestAmerica Job ID: 680-89352-1
SDG: AGL89352

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	05-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12 *
Kentucky (UST)	State Program	4	18	03-31-13 *
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	05-31-13
California	NELAP	9	01132CA	04-30-14
Georgia	State Program	4	N/A	04-30-14

* Expired certification is currently pending renewal and is considered valid.

APPENDIX C

Gradient and Seepage Velocity Calculations

Western Portion Gradient Calculation				
Well Pair		dh	dL	Gradient
MW-109	MW-08	12.18	212	0.057345

Eastern Portion Gradient Calculation				
Well Pair		dh	dL	Gradient
MW-102	MW-28	6.94	503	0.013797

N

0 150 Feet

Basemap: Image Source: April 2013 - Settimio Consulting Services, Inc.

ERM

Environmental Resources Management

DESIGN:	H Sartain	DRAWN:	M Gearman	CHKD.:	A Reimer
DATE:	4/18/2018	SCALE:	AS SHOWN	REVISION:	0

FILE: 0366660 AGL Resources Macon GW Pathforward AR\05 - ERM Outputs\Figures\AGL_Macon\MXD\2017 04 4thVRPPhgRpt\Fig04_GWAlluv.mxd

- Shallow Well
- Intermediate Well
- Apparent Groundwater Flow Used for Gradient Calculations
- Groundwater Elevation Contour (FT AMSL)
- Inferred Groundwater Elevation Contour (FT AMSL)
- Groundwater Flow Direction
- Apparent Groundwater Flow Used for Gradient Calculations
- ISS Mass

NOTES:

288.52 = Groundwater Elevation (ft AMSL)

FT AMSL = Feet Above Mean Sea Level

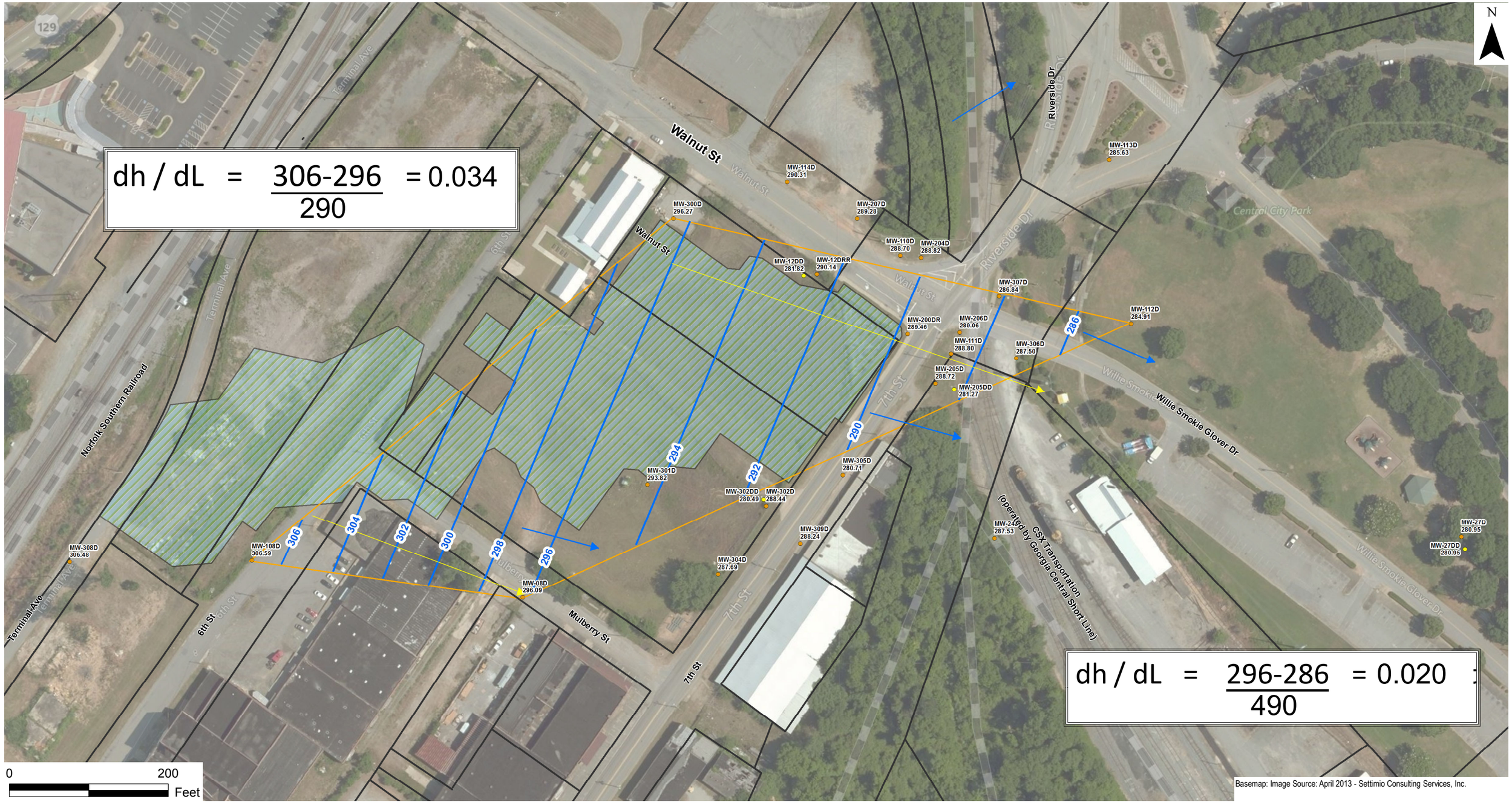
Intermediate wells MW-14I and MW-12IR not used in contouring.

APPENDIX C - ALLUVIAL GROUNDWATER GRADIENT ESTIMATION MAP - FEBRUARY 19, 2018

Atlanta Gas Light Company

Former Manufactured Gas Plant

Macon, Bibb County, Georgia



ERM

Environmental Resources Management

DESIGN:	H Sartain	DRAWN:	M Gearman	CHKD.:	A Reimer
DATE:	4/24/2018	SCALE:	AS SHOWN	REVISION:	0

FILE: 0366660 AGL Resources Macon GW Pathforward.AR105 - ERM Outputs\Figures\AGL_Macon\MXD\2017 04 4thVRPPrgRpt\Fig05_GWBdrk.mxd

NOTES:

- Apparent Groundwater Flow Used for Gradient Calculations
- Groundwater Elevation Contour (FT AMSL)
- Shallow Bedrock Well
- Deep Bedrock Well
- ISS Mass

280.71 = Groundwater Elevation (Ft AMSL)

Deep bedrock wells MW-12DD, MW-27DD, MW-205DD and MW-302DD not used in flow direction calculations.

FT AMSL = Feet Above Mean Sea Level

APPENDIX C - SHALLOW BEDROCK GROUNDWATER GRADIENT ESTIMATION MAP - FEBRUARY 19, 2018 Atlanta Gas Light Company

Former Manufactured Gas Plant

Macon, Bibb County, Georgia

APPENDIX D – CD ONLY

Groundwater Sampling Records – February 2018

Product Name: Low-Flow System

Date: 2018-02-22 10:20:41

Project Information:		Pump Information:	
Operator Name	Hannah Beaugh	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL - Macon	Tubing Length	21 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	513028		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	11 ft

Well Information:		Pumping Information:	
Well ID	AMW-2	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.1837319 L
Well Total Depth	14.6 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	30.72 in
Depth to Water	7.68 ft	Total Volume Pumped	14.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	09:52:56	4203.49	20.53	6.27	283.74	--	--	1.46	60.69
Last 5	09:57:56	4503.49	20.60	6.25	295.46	3.45	10.98	1.38	60.81
Last 5	10:02:56	4803.49	20.89	6.25	297.56	3.46	10.58	1.32	60.17
Last 5	10:07:56	5103.49	20.92	6.24	302.25	3.14	10.39	1.36	60.12
Last 5	10:12:56	5403.49	21.02	6.24	300.92	3.19	10.24	1.49	59.80
Variance 0			0.28	-0.00	2.09			-0.06	-0.63
Variance 1			0.03	-0.01	4.69			0.04	-0.06
Variance 2			0.10	-0.01	-1.33			0.13	-0.32

Notes

AMW-2 sampled at 1015

Grab Samples

AMW-2-20180222-01

Sample time: 1015

Product Name: Low-Flow System

Date: 2018-02-21 10:50:01

Project Information:		Pump Information:	
Operator Name	E. Gant	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL - Macon	Tubing Length	15 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	449622		
Turbidity Make/Model	LaMotte 2020	Pump placement from TOC	30 ft

Well Information:		Pumping Information:	
Well ID	AMW-06	Final Pumping Rate	160 mL/min
Well diameter	2 in	Total System Volume	3.156951 L
Well Total Depth	21 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0.22 in
Depth to Water	12.08 ft	Total Volume Pumped	9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	10:28:23	3600.95	20.71	7.64	46.93	4.79	12.79	2.77	159.19
Last 5	10:33:23	3900.95	20.66	7.60	26.24	3.57	12.77	2.71	158.09
Last 5	10:38:23	4200.95	20.75	7.57	40.42	2.88	12.77	2.43	152.23
Last 5	10:43:23	4500.95	20.86	7.52	48.79	3.27	12.77	2.40	143.02
Last 5	10:48:23	4800.95	21.19	7.46	25.51	--	--	2.37	143.91
Variance 0			0.09	-0.03	14.18			-0.28	-5.85
Variance 1			0.12	-0.05	8.37			-0.03	-9.21
Variance 2			0.33	-0.05	-23.28			-0.03	0.88

Notes

Started at 0930 sample 1050

Grab Samples

Product Name: Low-Flow System

Date: 2018-02-20 12:14:09

Project Information:		Pump Information:	
Operator Name	E. Gant	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL - Macon	Tubing Length	30 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	449622		
Turbidity Make/Model	LaMotte 2020	Pump placement from TOC	10 ft

Well Information:		Pumping Information:	
Well ID	AMW-11	Final Pumping Rate	150 mL/min
Well diameter	2 in	Total System Volume	0.2239027 L
Well Total Depth	15 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	3.36 in
Depth to Water	8.73 ft	Total Volume Pumped	8.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	11:49:08	2700.01	21.55	5.73	540.62	0.02	9.00	0.43	111.53
Last 5	11:54:08	3000.01	21.51	5.73	648.93	0.10	9.00	0.41	111.37
Last 5	11:59:08	3300.01	21.57	5.73	650.25	0.19	9.01	0.40	111.43
Last 5	12:04:08	3600.01	21.60	5.73	649.12	0.47	9.01	0.42	111.28
Last 5	12:09:08	3900.01	21.66	5.73	648.50	0.51	9.01	0.42	111.26
Variance 0			0.06	0.01	1.32			-0.01	0.07
Variance 1			0.03	-0.00	-1.13			0.02	-0.15
Variance 2			0.07	0.00	-0.61			0.01	-0.02

Notes

Purge time 1104/1209

Grab Samples

AMW-11-20180220-01

1209

Product Name: Low-Flow System

Date: 2018-02-20 15:04:02

Project Information:		Pump Information:	
Operator Name	E. Gant	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL - Macon	Tubing Length	30 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	449622		
Turbidity Make/Model	LaMotte 2020	Pump placement from TOC	15 ft

Well Information:		Pumping Information:	
Well ID	AMW-12	Final Pumping Rate	150 mL/min
Well diameter	2 in	Total System Volume	0.3739027 L
Well Total Depth	20 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0.07 in
Depth to Water	10.48 ft	Total Volume Pumped	4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	14:41:04	600.02	22.94	5.56	441.24	1.22	10.61	3.87	94.93
Last 5	14:46:04	900.02	22.85	5.54	442.22	0.94	10.62	3.84	95.51
Last 5	14:51:04	1200.02	22.63	5.54	443.02	0.63	10.62	3.80	96.08
Last 5	14:56:04	1500.02	22.62	5.54	439.53	0.56	10.62	3.77	96.66
Last 5	15:01:04	1800.02	22.54	5.53	440.97	0.49	10.62	3.73	97.49
Variance 0			-0.22	-0.00	0.80			-0.04	0.57
Variance 1			-0.01	-0.00	-3.49			-0.03	0.58
Variance 2			-0.09	-0.01	1.44			-0.03	0.83

Notes

Began at 1422 on 02/20/2018

Stabilized quickly; began purging at 1436 and ended at 1501

Grab Samples

Product Name: Low-Flow System

Date: 2018-02-20 11:31:35

Project Information:		Pump Information:	
Operator Name	Hannah Beaugh	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL - Macon	Tubing Length	25 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	513028		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	15 ft

Well Information:		Pumping Information:	
Well ID	AMW-13	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.2015856 L
Well Total Depth	20 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	4.44 in
Depth to Water	13.54 ft	Total Volume Pumped	3.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	11:01:38	900.02	22.62	5.68	335.50	0.57	13.81	2.30	106.25
Last 5	11:06:38	1200.02	22.70	5.67	334.52	0.42	13.85	2.36	105.25
Last 5	11:11:38	1500.02	22.73	5.67	334.37	0.40	13.88	2.14	104.08
Last 5	11:16:39	1800.86	22.80	5.67	334.02	0.34	13.89	2.12	103.33
Last 5	11:21:39	2100.85	22.83	5.67	334.08	0.33	13.91	2.05	102.51
Variance 0			0.03	0.00	-0.15			-0.22	-1.17
Variance 1			0.07	-0.00	-0.36			-0.02	-0.75
Variance 2			0.04	0.00	0.06			-0.07	-0.82

Notes

AMW-13 @ 1124

Grab Samples

AMW-13-20180220-01

Sample time: 1124

Product Name: Low-Flow System

Date: 2018-02-20 13:56:41

Project Information:		Pump Information:	
Operator Name	Hannah Beaugh	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL - Macon	Tubing Length	25 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	513028		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	15 ft

Well Information:		Pumping Information:	
Well ID	AMW-14	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.2015856 L
Well Total Depth	20 ft	Calculated Sample Rate	300 sec
Screen Length	15 ft	Stabilization Drawdown	154.08 in
Depth to Water	10.15 ft	Total Volume Pumped	14 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	13:30:13	1200.02	20.25	6.51	330.88	--	--	2.88	82.24
Last 5	13:35:13	1500.02	22.20	6.69	327.94	1.83	15.71	4.77	80.77
Last 5	13:40:13	1800.02	22.17	6.48	325.30	--	--	2.44	81.03
Last 5	13:45:13	2100.02	23.16	6.47	322.17	--	--	2.69	79.79
Last 5	13:50:13	2400.42	23.07	6.27	286.31	--	--	2.71	78.77
Variance 0			-0.03	-0.20	-2.64			-2.33	0.25
Variance 1			0.99	-0.01	-3.12			0.25	-1.24
Variance 2			-0.09	-0.20	-35.87			0.02	-1.02

Notes

Purged dry at 1350

Grab Samples

Product Name: Low-Flow System

Date: 2018-02-21 09:42:48

Project Information:		Pump Information:	
Operator Name	Hannah Beaugh	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL - Macon	Tubing Length	25 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	513028		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	15 ft

Well Information:		Pumping Information:	
Well ID	AMW-14	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.2015856 L
Well Total Depth	20 ft	Calculated Sample Rate	300 sec
Screen Length	15 ft	Stabilization Drawdown	5.04 in
Depth to Water	10.66 ft	Total Volume Pumped	0.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	09:35:57	300.03	20.82	6.05	311.56	3.22	11.08	1.65	81.44
Last 5									
Last 5									
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.00	0.00	0.00			0.00	0.00
Variance 2			0.00	0.00	0.00			0.00	0.00

Notes

Sampled recharge at 0940

Grab Samples

AMW-14-20180221-01

Sample time: 0940

Product Name: Low-Flow System

Date: 2018-02-20 15:46:21

Project Information:		Pump Information:	
Operator Name	Hannah Beaugh	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL - Macon	Tubing Length	26 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	513028		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	16 ft

Well Information:		Pumping Information:	
Well ID	AMW-15	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.206049 L
Well Total Depth	21 ft	Calculated Sample Rate	300 sec
Screen Length	15 ft	Stabilization Drawdown	169.92 in
Depth to Water	10.39 ft	Total Volume Pumped	13 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	15:06:54	300.07	22.45	5.88	170.98	0.96	11.12	2.19	69.38
Last 5	15:11:54	600.02	21.69	5.89	172.83	0.78	11.61	2.12	68.35
Last 5	15:16:54	900.02	20.12	5.92	178.09	--	--	2.52	70.23
Last 5	15:26:54	1500.02	21.23	5.89	174.22	0.72	19.91	2.38	70.77
Last 5	15:31:54	1800.02	21.77	5.91	174.28	--	--	2.14	70.61
Variance 0			-1.57	0.03	5.26			0.40	1.88
Variance 1			1.11	-0.04	-3.87			-0.14	0.54
Variance 2			0.54	0.02	0.06			-0.25	-0.16

Notes

Purged dry at 1535

Grab Samples

Product Name: Low-Flow System

Date: 2018-02-21 11:53:22

Project Information:		Pump Information:	
Operator Name	Hannah Beaugh	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL - Macon	Tubing Length	30 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	513028		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	20 ft

Well Information:		Pumping Information:	
Well ID	AMW-15	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.2239027 L
Well Total Depth	21 ft	Calculated Sample Rate	300 sec
Screen Length	15 ft	Stabilization Drawdown	0 in
Depth to Water	15.53 ft	Total Volume Pumped	0.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	11:50:11	300.02	23.65	5.70	153.75	2.33	--	3.82	72.53
Last 5									
Last 5									
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.00	0.00	0.00			0.00	0.00
Variance 2			0.00	0.00	0.00			0.00	0.00

Notes

Sampled recharge at 1155

Grab Samples

AMW-15-20180221-01

Sample time: 1155

ERM

GROUND WATER SAMPLING L[illegible]SHEET

Client: AGL | Project No.: | Sampling Date: 02-23-18

Site/Location: Macon, Georgia | Sampler's Name: Elizabeth Cant

Well ID: MW-[illegible]08 | Pump Type/Model: Aleus Peristaltic | Sample Collection Time: 1015

Total Depth (ft)[a]: [illegible]19 | Tubing Material: LDPE | Sample Purge Rate (L/min)[c]: 125

Depth to Water (ft): 13.24 | Pump Intake Depth (ft): ~16 | Sample ID: MW-08-20180223-01

Well Diameter (in): 2 | Purge Method: Low Flow | QA/QC Collected? NA

*Well Volume (gal) = 0.041d²h: 3L | Start/Stop Purge Time: 0940 / 1015 | QA/QC I.D. NA

Purge Rate (L/min)[b]: 150 | Total Purge Volume (L): 4.5 | Laboratory Analyses: See CoC

Well Type: Flush / Stick Up

Well Cap Condition: Good / Replace / Other

Well Lock: Yes / No | Well Bolted: Yes / No | Bolts Needed: Yes / No

Sampling Method (check all that apply): ☒ soda straw ☒ pump head discharge ☐ Bailer (only used if necessary)

Time[d]	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0945									issue with Smart Control Unit.
0950	21.64	274.90	5.67	6.17	83.90	-0.12	0.75	13.3	
0955	21.72	274.50	5.28	6.14	82.30	-0.39	1.50	13.28	
1000	21.74	275.00	4.73	6.11	81.60	-0.72	2.25	13.30	everything Stable; recalibrated Turbidity meter
1005	21.77	273.30	4.58	6.07	82.50	-0.29	3.00	13.30	Water is very clear & Stable
1010	21.87	273.40	4.52	6.04	83.60	-0.67	3.75	13.30	~~Sampling~~ ~~Stable~~
1015	21.95	~~270.60~~ 267.60	4.16	6.01	84.00	0.20	4.50	13.30	Sampling
			AB 3pt 1001R						
Stabilizing Criteria[e]	+/- 1°C	+/- 3%	+/- 10% (see note below)[g]	+/- 0.1 unit	+/- 10 mV (see note below)[h]	<10 NTUs OR +/- 10%	(see note below)[d]	(see note below)[f]	T.D. =

(a) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom
(b) - Purge rate to be 0.5 lpm or less
(c) - Sampling rate to be 0.25 lpm or less
(d) - Field parameter measurements to be recorded every 3 to 5 minutes
(e) - Stabilization criteria based on three most recent consecutive measurements
(f) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less since initial reading. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft before switching to three well volume method
(g) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure
(h) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

* d = well diameter (inches); h = length of water column (feet)

Casing Diameter	Gallons per foot
1 in	0.12
2 in	0.16
4 in	0.64

Product Name: Low-Flow System

Date: 2018-02-21 11:18:32

Project Information:		Pump Information:	
Operator Name	A. Ellis	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL Macon	Tubing Length	50 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	501336		
Turbidity Make/Model	Lamotte	Pump placement from TOC	45 ft

Well Information:		Pumping Information:	
Well ID	MW-08D	Final Pumping Rate	150 mL/min
Well diameter	4 in	Total System Volume	0.3131711 L
Well Total Depth	53.5 ft	Calculated Sample Rate	300 sec
Screen Length	15.5 ft	Stabilization Drawdown	5.52 in
Depth to Water	11.74 ft	Total Volume Pumped	4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	10:55:50	600.02	21.72	6.70	257.79	1.99	12.01	0.41	45.45
Last 5	11:00:50	900.02	21.77	6.70	257.59	2.26	12.07	0.30	43.25
Last 5	11:05:50	1200.02	21.90	6.68	257.21	1.98	12.14	0.24	41.24
Last 5	11:10:50	1500.02	21.94	6.67	257.09	2.13	12.17	0.20	38.37
Last 5	11:15:50	1799.92	21.87	6.69	257.54	2.56	12.20	0.18	35.98
Variance 0			0.14	-0.02	-0.38			-0.06	-2.01
Variance 1			0.04	-0.01	-0.11			-0.04	-2.87
Variance 2			-0.06	0.03	0.44			-0.02	-2.39

Notes

Purge time 1046/1116

Grab Samples

MW-08D-20180221-01

1116

Product Name: Low-Flow System

Date: 2018-02-21 10:17:21

Project Information:		Pump Information:	
Operator Name	T. Payne	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL Macon	Tubing Length	20 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	465016		
Turbidity Make/Model	LaMotte2020we	Pump placement from TOC	12 ft

Well Information:		Pumping Information:	
Well ID	MW-10	Final Pumping Rate	200 mL/min
Well diameter	2 in	Total System Volume	0.1792685 L
Well Total Depth	17.5 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0.84 in
Depth to Water	9.12 ft	Total Volume Pumped	3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	09:58:58	300.12	20.33	6.41	268.98	1.24	9.19	1.43	76.24
Last 5	10:03:58	600.02	20.12	6.05	271.70	0.96	9.19	1.22	70.43
Last 5	10:08:58	900.01	20.02	5.98	275.50	0.71	9.19	0.98	67.38
Last 5	10:13:58	1200.00	19.98	5.95	279.80	0.88	9.19	0.93	65.37
Last 5									
Variance 0			-0.21	-0.36	2.72			-0.21	-5.81
Variance 1			-0.10	-0.07	3.81			-0.23	-3.06
Variance 2			-0.03	-0.02	4.30			-0.06	-2.00

Notes

Increase purge rate from 0.1 to 0.2 at 1003.

Grab Samples

MW-10-20180221-01

1015

Product Name: Low-Flow System

Date: 2018-02-21 12:16:09

Project Information:		Pump Information:	
Operator Name	T. Payne	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL Macon	Tubing Length	14 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	465016		
Turbidity Make/Model	LaMotte2020we	Pump placement from TOC	6 ft

Well Information:		Pumping Information:	
Well ID	MW-11	Final Pumping Rate	200 mL/min
Well diameter	2 in	Total System Volume	0.1524879 L
Well Total Depth	12 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	8.12 in
Depth to Water	3.89 ft	Total Volume Pumped	9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	11:52:14	1799.99	19.28	5.92	295.50	8.44	4.60	0.68	64.29
Last 5	11:57:14	2099.98	19.56	5.91	302.90	8.25	4.60	0.55	62.94
Last 5	12:02:14	2399.97	19.79	5.88	323.59	8.79	4.60	0.35	61.38
Last 5	12:07:14	2699.96	19.59	5.88	326.32	8.58	4.60	0.29	60.98
Last 5	12:12:14	2999.95	19.49	5.88	324.95	8.40	4.60	0.24	59.87
Variance 0			0.23	-0.03	20.69			-0.20	-1.56
Variance 1			-0.20	-0.00	2.73			-0.06	-0.40
Variance 2			-0.11	0.00	-1.36			-0.04	-1.11

Notes

Increase purge rate from 0.1 to 0.2 at 1132. DUP-2 taken

Grab Samples

MW-11-20180221-01

1215

DUP-2-20180221-01

1215

Product Name: Low-Flow System

Date: 2018-02-23 10:55:17

Project Information:		Pump Information:	
Operator Name	A. Ellis	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL Macon	Tubing Length	97 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	501336		
Turbidity Make/Model	Lamotte	Pump placement from TOC	92 ft

Well Information:		Pumping Information:	
Well ID	MW-12DD	Final Pumping Rate	100 mL/min
Well diameter	3 in	Total System Volume	0.522952 L
Well Total Depth	97 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	101.04 in
Depth to Water	15.01 ft	Total Volume Pumped	8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	10:29:18	3299.92	21.19	7.61	238.73	1.03	21.66	0.30	41.73
Last 5	10:34:18	3599.88	21.54	7.61	240.76	1.29	22.10	0.29	40.52
Last 5	10:39:18	3899.85	21.63	7.61	239.94	2.13	22.74	0.28	39.48
Last 5	10:44:19	4200.85	21.96	7.62	239.75	1.65	23.01	0.28	38.46
Last 5	10:49:20	4501.85	22.05	7.62	241.02	1.92	23.43	0.26	37.25
Variance 0			0.09	0.00	-0.82			-0.01	-1.04
Variance 1			0.33	0.00	-0.20			-0.01	-1.02
Variance 2			0.08	0.00	1.27			-0.02	-1.21

Notes

Purge time 0934/1049; excessive WL drawdown- too much water to purge 3x well volume

Grab Samples

MW-12DD-20180223-01

1049

Product Name: Low-Flow System

Date: 2018-02-23 09:57:43

Project Information:		Pump Information:	
Operator Name	Hannah Beaugh	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL - Macon	Tubing Length	55 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	513028		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	45 ft

Well Information:		Pumping Information:	
Well ID	MW-12DRR	Final Pumping Rate	200 mL/min
Well diameter	2 in	Total System Volume	0.3354883 L
Well Total Depth	52 ft	Calculated Sample Rate	300 sec
Screen Length	15 ft	Stabilization Drawdown	0.84 in
Depth to Water	9.74 ft	Total Volume Pumped	5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	09:31:58	300.03	19.86	6.21	545.15	6.87	9.77	0.20	23.97
Last 5	09:36:58	600.02	20.06	6.21	544.52	2.71	9.78	0.15	18.48
Last 5	09:41:58	900.02	20.17	6.21	543.07	1.93	9.79	0.13	14.11
Last 5	09:46:58	1200.02	20.25	6.21	542.94	1.95	9.80	0.11	10.60
Last 5	09:51:58	1500.02	20.32	6.22	540.59	1.71	9.81	0.10	7.79
Variance 0			0.12	-0.00	-1.45			-0.02	-4.37
Variance 1			0.08	0.00	-0.12			-0.01	-3.51
Variance 2			0.06	0.00	-2.36			-0.01	-2.81

Notes

MW-12DRR Sampled at 0955

Grab Samples

MW-12DRR-20180223-01

Sample time: 0955

Product Name: Low-Flow System

Date: 2018-02-22 08:56:25

Project Information:		Pump Information:	
Operator Name	T. Payne	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL Macon	Tubing Length	24 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	465016		
Turbidity Make/Model	LaMotte2020we	Pump placement from TOC	16 ft

Well Information:		Pumping Information:	
Well ID	MW-12IR	Final Pumping Rate	200 mL/min
Well diameter	2 in	Total System Volume	0.1971222 L
Well Total Depth	21 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	1.08 in
Depth to Water	8.04 ft	Total Volume Pumped	2.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	08:37:17	300.13	19.50	5.84	572.54	12.40	8.08	0.55	92.14
Last 5	08:42:17	600.02	19.41	5.71	573.70	15.70	8.13	0.25	88.74
Last 5	08:47:17	900.01	19.41	5.72	575.20	9.98	8.13	0.24	88.06
Last 5	08:52:17	1200.00	19.49	5.72	574.91	9.56	8.13	0.22	87.81
Last 5									
Variance 0			-0.09	-0.13	1.16			-0.30	-3.40
Variance 1			0.00	0.00	1.50			-0.01	-0.68
Variance 2			0.08	0.00	-0.29			-0.02	-0.25

Notes

Increase purge rate from 0.1 to 0.2 at 0847

Grab Samples

MW-12IR-20180222-01

0855

Product Name: Low-Flow System

Date: 2018-02-22 10:14:51

Project Information:		Pump Information:	
Operator Name	T. Payne	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL Macon	Tubing Length	17 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	465016		
Turbidity Make/Model	LaMotte2020we	Pump placement from TOC	9.5 ft

Well Information:		Pumping Information:	
Well ID	MW-12R	Final Pumping Rate	200 mL/min
Well diameter	2 in	Total System Volume	0.1658782 L
Well Total Depth	14.5 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	3 in
Depth to Water	3.97 ft	Total Volume Pumped	4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	09:51:43	600.03	18.31	4.07	660.93	2.57	4.19	1.25	88.45
Last 5	09:56:43	900.02	18.39	4.07	664.92	3.01	4.19	1.56	88.80
Last 5	10:01:43	1200.05	18.42	4.09	663.72	2.48	4.19	1.80	89.38
Last 5	10:06:43	1500.01	18.26	4.08	663.88	2.77	4.22	1.21	89.84
Last 5	10:11:43	1799.99	18.19	4.09	665.20	2.08	4.22	1.11	90.34
Variance 0			0.04	0.02	-1.20			0.24	0.58
Variance 1			-0.16	-0.00	0.16			-0.59	0.46
Variance 2			-0.07	0.01	1.32			-0.10	0.50

Notes

Increase purge rate from 0.1 to 0.2 at 1001.

Grab Samples

MW-12R-20180222-01

1015

Product Name: Low-Flow System

Date: 2018-02-26 15:52:17

Project Information:		Pump Information:	
Operator Name	Hannah Beaugh	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL - Macon	Tubing Length	20 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	513028		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	10 ft

Well Information:		Pumping Information:	
Well ID	MW-14	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.1792685 L
Well Total Depth	15 ft	Calculated Sample Rate	300 sec
Screen Length	12 ft	Stabilization Drawdown	94.32 in
Depth to Water	5.38 ft	Total Volume Pumped	13.24 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	15:22:00	2999.97	20.09	6.01	240.61	4.68	12.99	0.79	52.47
Last 5	15:27:00	3299.92	19.85	5.98	238.42	2.69	13.15	1.25	49.67
Last 5	15:32:00	3599.91	19.90	6.02	240.18	3.79	13.30	1.49	50.12
Last 5	15:37:00	3899.91	19.94	6.02	241.64	2.80	13.27	1.48	47.88
Last 5	15:42:00	4199.91	19.90	6.03	240.02	2.30	13.24	1.58	47.27
Variance 0			0.04	0.04	1.76			0.24	0.44
Variance 1			0.05	0.01	1.46			-0.01	-2.24
Variance 2			-0.05	0.00	-1.62			0.10	-0.61

Notes

MW-14 sampled at 1545

Grab Samples

MW-14-20180226-01

Sample time: 1545

Product Name: Low-Flow System

Date: 2018-02-26 15:09:15

Project Information:		Pump Information:	
Operator Name	Markevious Thomas	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	.17 in
Site Name	AGL - Macon	Tubing Length	30 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	463072		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	22 ft

Well Information:		Pumping Information:	
Well ID	MW-14I	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.2239027 L
Well Total Depth	24 ft	Calculated Sample Rate	300 sec
Screen Length	5 ft	Stabilization Drawdown	4.8 in
Depth to Water	6.76 ft	Total Volume Pumped	3.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 0.2	+/- 100
Last 5	14:45:01	900.02	20.79	7.11	371.59	4.76	7.21	0.18	-25.91
Last 5	14:50:01	1200.02	20.58	7.06	376.34	3.57	7.67	0.15	-29.70
Last 5	14:55:01	1500.03	20.66	7.00	386.35	3.87	7.66	0.14	-32.46
Last 5	15:00:01	1800.01	21.14	6.96	390.01	3.49	7.67	0.11	-33.07
Last 5	15:05:01	2100.05	21.06	6.93	392.61	2.57	7.66	0.10	-32.73
Variance 0			0.07	-0.06	10.01			-0.01	-2.76
Variance 1			0.48	-0.04	3.66			-0.03	-0.61
Variance 2			-0.08	-0.03	2.59			-0.01	0.34

Notes

1430 began purge at 100mL/min; 1505 all parameters stable; 1510 sampled at 100mL/min

Grab Samples

MW-14I-20180226-01

Sampled at 1510

Product Name: Low-Flow System

Date: 2018-02-22 16:46:24

Project Information:		Pump Information:	
Operator Name	E. Gant	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL - Macon	Tubing Length	20 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	449622		
Turbidity Make/Model	LaMotte 2020	Pump placement from TOC	10 ft

Well Information:		Pumping Information:	
Well ID	MW-15	Final Pumping Rate	130 mL/min
Well diameter	2 in	Total System Volume	3.179269 L
Well Total Depth	14.5 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0.03 in
Depth to Water	6.63 ft	Total Volume Pumped	3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	16:21:42	900.02	22.00	6.25	8.41	0.52	6.77	1.79	78.81
Last 5	16:26:42	1200.02	19.68	5.97	559.59	0.72	6.77	0.81	78.20
Last 5	16:31:42	1499.94	18.87	5.90	593.83	0.55	6.77	0.41	80.39
Last 5	16:36:43	1800.94	18.71	5.90	577.28	0.13	6.77	0.41	79.87
Last 5	16:41:43	2100.94	18.70	5.87	586.73	0.11	6.78	0.41	82.01
Variance 0			-0.81	-0.06	34.24			-0.40	2.19
Variance 1			-0.16	-0.00	-16.55			-0.00	-0.52
Variance 2			-0.01	-0.03	9.45			0.00	2.14

Notes

Started at 1605 and ended at 1635

Grab Samples

Product Name: Low-Flow System

Date: 2018-02-26 13:01:43

Project Information:		Pump Information:	
Operator Name	Hannah Beaugh	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL - Macon	Tubing Length	17 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	513028		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	7 ft

Well Information:		Pumping Information:	
Well ID	MW-21	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.1658782 L
Well Total Depth	10 ft	Calculated Sample Rate	300 sec
Screen Length	7 ft	Stabilization Drawdown	19.68 in
Depth to Water	3.65 ft	Total Volume Pumped	16.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	12:30:14	5395.22	17.36	5.54	108.64	12.70	5.50	2.13	68.90
Last 5	12:35:14	5695.22	17.41	5.54	111.09	11.00	5.44	1.89	63.26
Last 5	12:40:14	5995.22	17.18	5.55	112.48	11.30	5.38	2.01	62.64
Last 5	12:45:14	6295.22	17.36	5.57	114.71	10.61	5.34	1.83	62.48
Last 5	12:50:14	6595.22	16.91	5.56	115.65	10.61	5.29	1.87	60.02
Variance 0			-0.24	0.01	1.39			0.12	-0.61
Variance 1			0.18	0.02	2.24			-0.18	-0.16
Variance 2			-0.45	-0.01	0.93			0.04	-2.46

Notes

MW-21 sampled at 1255

Grab Samples

MW-21-20180226-01

Sample time: 1255

ERM

GROUND WATER SAMPLING L HEET

Client: AGL | Project No.: 0366660 | Sampling Date: 02/21/2018

Site/Location: MACON, GA | Sampler's Name: A. SHOREDITS

Well ID: MW-22D | Pump Type/Model: ALEXIS PERISTALTIC | Sample Collection Time: 13:05

Total Depth (ft)[a]: (68') 45.73' btoc | Tubing Material: LDPE 0.17"ID, 0.25"OD | Sample Purge Rate (L/min)[c]: 0.15

Depth to Water (ft): 12.25' btoc | Pump Intake Depth (ft): ~ | Sample ID: MW-22D-20180221-01

Well Diameter (in): 4.00 | Purge Method: LOW FLOW/VOLUME | QA/QC Collected? YES

*Well Volume (gal) = 0.041d²h: 34.4 (130 L) TD | Start/Stop Purge Time: 12:08/13:02 | QA/QC I.D. MS/MSD

20.6 (78 L) actual depth | Purge Rate (L/min)[b]: 0.1/0.13/0.15 | Total Purge Volume (L): 7.90 | Laboratory Analyses: SEE COC

Well Type: (Flush) / Stick Up | Sampling Method: ☑ Soda straw

Well Cap Condition: Good / (Replace) / Other ~~replaced~~. | (check all that apply) ☐ pump head discharge

Well Lock: (Yes) / No | Well Bolted: (Yes) / No | Bolts Needed: Yes / (No) | ☐ Bailer (only used if necessary)

Time[d]	Temp. (°C)	Spec. Cond. ~~(mS/cm)~~ µS/cm	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
12:12	21.62	639	6.60	7.11	84.6	2.76	0.50	12.31	Clear water; Increased rate to 0.13L/min.
12:17	20.62	745	2.35	6.38	54.8	1.76	1.15	12.36	Increased purge rate to 0.15L/min.
12:22	20.76	729	1.62	6.42	27.0	0.96	1.90	12.40	
12:27	20.98	722	1.70	6.52	11.7	1.42	2.65	12.43	
12:32	20.86	724	1.81	6.49	1.4	1.95	3.40	12.46	
12:37	20.80	727	1.84	6.41	-5.4	2.19	4.15	12.47	Drawdown slowing
12:42	20.63	~~727~~ 725	~~1.85~~ 1.86	6.38	-19.8	0.92	4.90	12.50	pH still dropping
12:47	20.61	724 713	1.80 1.89	6.39	-30.2	1.99	5.65	12.52	Spec. Cond. is dropping
12:52	21.18	711	1.26	6.52	-40.9	2.68	6.40	12.54	pH jumped.
12:57	21.03	714	1.25	6.47	-38.9	2.32	7.15	12.54	water level is stable
13:02	20.98	711	1.06	6.43	-38.0	0.90	7.90	12.54	
PARAMETERS ARE STABLE, WELL CAN BE SAMPLED									
Stabilizing Criteria[e]	+/- ✓ 1°C	21.7 +/- ✓ 3%	+/- 10% (see note below)[g]	+/- ✓ 0.1 unit	+/- 10 mV (see note below)[h]	<10 NTUs OR +/- 10% ✓	(see note below)[d] ✓	(see note below)[f] ✓	

(a) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom

(b) - Purge rate to be 0.5 lpm or less

(c) - Sampling rate to be 0.25 lpm or less

(d) - Field parameter measurements to be recorded every 3 to 5 minutes

(e) - Stabilization criteria based on three most recent consecutive measurements

(f) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less since ititial reading. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft before switching to three well volume method

(g) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure

(h) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

* d = well diameter (inches); h = length of water column (feet)

Casing Diameter	Gallons per foot
1 in	0.12
2 in	0.16
4 in	0.64

ERM

GROUND WATER SAMPLING L HEET

Client: MGL | Project No.: 0366660 | Sampling Date: 02/20/2018

Site/Location: MACON, GA | Sampler's Name: A. SHOREDITS

Well ID: MW-23 | Pump Type/Model: ALEXIS PERISTALTIC | Sample Collection Time: 16:10

Total Depth (ft)[a]: (20'3"S) 20.46' TOC | Tubing Material: LDPE 0.17"ID/0.25"OD | Sample Purge Rate (L/min)[c]: 0.1

Depth to Water (ft): 10.64 | Pump Intake Depth (ft): 12.0 | Sample ID: MW-23-20180220-01

Well Diameter (in): 2.00 | Purge Method: LOW FLOW/VOLUME | QA/QC Collected? NO

*Well Volume (gal) = 0.041d²h: 1.53 (5.79L) | Start/Stop Purge Time: 15:19/16:03 | QA/QC I.D. NA

Purge Rate (L/min)[b]: 0.1 | Total Purge Volume (L): 4.5 | Laboratory Analyses: SEE COC

Well Type: (Flush) / Stick Up | Sampling Method: ☑ soda straw

Well Cap Condition: (Good) / Replace / Other | (check all that apply) ☑ pump head discharge

Well Lock: (Yes) / No | Well Bolted: (Yes) / No | Bolts Needed: Yes / (No) | ☐ Bailer (only used if necessary)

Time[d]	Temp. (°C)	Spec. Cond. ~~(mS/cm)~~ µS/cm	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
15:23	21.41	744	4.50	5.97	118.8	0.70	0.5	10.73	Clear water, slight odour
15:28	21.00	721	3.43	5.83	105.7	0.78	1.0	10.74	
15:33	20.98	705	3.14	5.87	97.2	0.88	1.5	10.75	
15:38	21.10	695	2.91	5.87	94.9	0.52	2.0	10.75	
15:43	20.87	660	2.49	5.83	95.2	0.54	2.5	10.75	
15:48	21.03	671	2.51	5.85	93.9	0.49	3.0	10.75	
15:53	20.92	638	2.64	5.80	97.6	1.05	3.5	10.75	
15:58	20.99	634	2.55	5.83	96.1	0.43	4.0	10.75	
16:03	21.00	630	2.41	5.84	96.0	0.53	4.5	10.78	
PARAMETERS ARE STABLE, WELL CAN BE SAMPLED									
Stabilizing Criteria[e]	+/- 1°C ✓	~~10%~~ +/- 10% ✓	+/- 10% (see note below)[g]	+/- 0.1 unit ✓	+/- 10 mV (see note below)[h]	<10 NTUs OR +/- 10% ✓	(see note below)[d]	(see note below)[f] ✓	

(a) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom
(b) - Purge rate to be 0.5 lpm or less
(c) - Sampling rate to be 0.25 lpm or less
(d) - Field parameter measurements to be recorded every 3 to 5 minutes
(e) - Stabilization criteria based on three most recent consecutive measurements
(f) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less since ititial reading. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft before switching to three well volume method
(g) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure
(h) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

* d = well diameter (inches);
h = length of water column (feet)

Casing Diameter	Gallons per foot
1 in	0.12
2 in	0.16
4 in	0.64

ERM

GROUND WATER SAMPLING L HEET

* obstruction @ 23.39
very soft bottom at T.D.

Client: AGL | Project No.: 0366660 | Sampling Date: 02/20/2018

Site/Location: MACON, GA | Sampler's Name: A.SHOREDITS

Well ID: MW-23D | Pump Type/Model: ALEXIS PERISTALTIC | Sample Collection Time: 13:55

* Total Depth (ft)[a]: (36') 34.15' Stoc | Tubing Material: LDPE 0.17" I.D. x 0.25" OD | Sample Purge Rate (L/min)[c]: 0.15

Depth to Water (ft): 10.64' Stoc | Pump Intake Depth (ft): 28.0 | Sample ID: MW-23D-20180220-01

Well Diameter (in): 4.00 | Purge Method: LOW FLOW/VOLUME | QA/QC Collected? NO

*Well Volume (gal) = 0.041d²h: 10 4.133 (15.6L) A.S. for 2" well | Start/Stop Purge Time: 13:15 / 13:50 | QA/QC I.D. NA

Purge Rate (L/min)[b]: 0.1 / 0.15 | Total Purge Volume (L): 4.50 | Laboratory Analyses: SEE COC

Well Type: (Flush) / Stick Up | Sampling Method: ☑ soda straw

Well Cap Condition: (Good) / Replace / Other | (check all that apply) ☑ pump head discharge

Well Lock: Yes / No | Well Bolted: Yes / No | Bolts Needed: Yes / No | ☐ Bailer (only used if necessary)

Time[d]	Temp. (°C)	Spec. Cond. ~~mS/cm~~ µS/cm	DO (mg/L)	pH (SU) ✓	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
13:20	21.67	582	2.92	5.90	116.7	12.85	0.5	10.66	Turbid water
13:25	22.00	581	1.71	5.92	111.8	11.77	1.0	10.67	White flakes in water
13:30	22.27	579	1.86	5.92	96.9	11.20	1.5	10.70	Turned purge rate up to 0.15 L/min
13:35	22.89	585	1.54	5.94	88.1	8.89	2.25	10.71	
13:40	23.08	584	1.35	5.93	83.3	8.48	3.00	10.72	
13:45	22.94	601	1.54	5.94	80.3	9.47	3.75	10.72	
13:50	23.26	592	1.60	5.95	79.0	7.61	4.50	10.72	
PARAMETERS ARE STABLE, WELL CAN BE SAMPLED									
Stabilizing Criteria[e]	+/- 1°C ✓	~~10%~~ 3% +/- ✓	+/- 10% (see note below)[g]	+/- 0.1 unit ✓	+/- 10 mV (see note below)[h]	<10 NTUs OR +/- 10% ✓	(see note below)[d]	(see note below)[f] ✓	

(a) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom
(b) - Purge rate to be 0.5 lpm or less
(c) - Sampling rate to be 0.25 lpm or less
(d) - Field parameter measurements to be recorded every 3 to 5 minutes
(e) - Stabilization criteria based on three most recent consecutive measurements
(f) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less since ititial reading. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft before switching to three well volume method
(g) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure
(h) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

* d = well diameter (inches);
h = length of water column (feet)

Casing Diameter	Gallons per foot
1 in	0.12
2 in	0.16
4 in	0.64

Product Name: Low-Flow System

Date: 2018-02-19 12:12:06

Project Information:		Pump Information:	
Operator Name	A. Ellis	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL Macon	Tubing Length	45 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	501336		
Turbidity Make/Model	Lamotte	Pump placement from TOC	35 ft

Well Information:		Pumping Information:	
Well ID	MW-24D	Final Pumping Rate	100 mL/min
Well diameter	**4** in	Total System Volume	0.290854 L
Well Total Depth	40.5 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	9.6 in
Depth to Water	4.77 ft	Total Volume Pumped	9.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	11:47:55	4501.40	19.92	5.99	462.43	4.71	5.56	0.18	53.09
Last 5	11:52:55	4801.41	20.12	6.00	482.12	2.39	5.56	0.18	47.15
Last 5	11:57:55	5101.30	20.32	5.98	474.20	4.77	5.56	0.19	44.27
Last 5	12:02:55	5401.30	20.25	6.02	477.24	4.03	5.57	0.17	40.39
Last 5	12:07:55	5701.30	19.85	5.95	466.15	2.19	5.57	0.18	40.96
Variance 0			0.20	-0.02	-7.92			0.00	-2.89
Variance 1			-0.07	0.03	3.04			-0.01	-3.87
Variance 2			-0.40	-0.07	-11.09			0.01	0.57

Notes

Purge time 1033/1218

Grab Samples

MW-24D-20180219-01

1218

Product Name: Low-Flow System

Date: 2018-02-20 12:11:31

Project Information:		Pump Information:	
Operator Name	T. Payne	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL Macon	Tubing Length	20 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	541714		
Turbidity Make/Model	LaMotte2020we	Pump placement from TOC	12 ft

Well Information:		Pumping Information:	
Well ID	MW-26	Final Pumping Rate	200 mL/min
Well diameter	2 in	Total System Volume	0.1792685 L
Well Total Depth	20 ft	Calculated Sample Rate	300 sec
Screen Length	15 ft	Stabilization Drawdown	0 in
Depth to Water	0.86 ft	Total Volume Pumped	17 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	11:47:33	4199.92	17.87	5.89	370.02	8.04	0.86	0.11	-15.90
Last 5	11:52:33	4499.91	17.87	5.91	383.23	5.01	0.86	0.11	-13.63
Last 5	11:57:33	4799.90	17.83	5.91	375.50	4.08	0.86	0.11	-13.53
Last 5	12:02:33	5099.89	17.83	5.89	365.15	3.68	0.86	0.10	-13.45
Last 5	12:07:33	5399.88	17.84	5.90	367.30	3.44	0.86	0.10	-13.26
Variance 0			-0.05	-0.00	-7.73			-0.00	0.10
Variance 1			0.00	-0.02	-10.35			-0.00	0.08
Variance 2			0.01	0.01	2.14			0.00	0.20

Notes

1055 rinse flow cell. 1107 rinse flow cell. 1047 increase purge rate from 0.1L/min to 0.2L/min. Raise pump intake to 11ft at 1122

Grab Samples

MW-26-20180220-01

1210

Product Name: Low-Flow System

Date: 2018-02-20 13:49:01

Project Information:		Pump Information:	
Operator Name	T. Payne	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL Macon	Tubing Length	45 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	541714		
Turbidity Make/Model	LaMotte2020we	Pump placement from TOC	37 ft

Well Information:		Pumping Information:	
Well ID	MW-26D	Final Pumping Rate	100 mL/min
Well diameter	6 in	Total System Volume	0.290854 L
Well Total Depth	42 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	20.76 in
Depth to Water	1.28 ft	Total Volume Pumped	3.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	13:25:58	900.01	19.45	10.53	299.50	4.87	2.21	0.77	39.91
Last 5	13:30:58	1200.00	19.68	10.50	298.62	3.57	2.43	0.73	36.19
Last 5	13:35:58	1499.99	20.23	10.49	300.72	3.45	2.64	0.73	33.06
Last 5	13:40:58	1799.99	20.19	10.47	300.45	2.43	2.84	0.71	32.37
Last 5	13:45:58	2099.97	20.48	10.45	300.54	2.58	3.01	0.72	31.86
Variance 0			0.55	-0.02	2.10			0.00	-3.13
Variance 1			-0.04	-0.02	-0.27			-0.02	-0.68
Variance 2			0.29	-0.02	0.09			0.00	-0.52

Notes

Over 0.33ft of drawdown. Well volume method not practical due to large well volume.

Grab Samples

MW-26D-20180220-01

1350

Product Name: Low-Flow System

Date: 2018-02-20 11:30:01

Project Information:		Pump Information:	
Operator Name	Markevious Thomas	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	.17 in
Site Name	AGL - Macon	Tubing Length	55 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	463072		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	45 ft

Well Information:		Pumping Information:	
Well ID	MW-27D	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.3354883 L
Well Total Depth	48.5 ft	Calculated Sample Rate	300 sec
Screen Length	5 ft	Stabilization Drawdown	1.68 in
Depth to Water	7.62 ft	Total Volume Pumped	3.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	11:05:01	900.03	19.64	6.77	234.34	2.12	7.75	0.31	3.69
Last 5	11:10:01	1200.02	19.67	6.72	232.22	1.54	7.75	0.25	-0.95
Last 5	11:15:01	1500.02	19.68	6.68	230.13	0.81	7.76	0.22	-4.47
Last 5	11:20:01	1800.03	19.75	6.64	226.54	1.20	7.76	0.20	-7.28
Last 5	11:25:01	2100.03	19.77	6.61	225.91	1.37	7.76	0.18	-8.27
Variance 0			0.01	-0.04	-2.09			-0.03	-3.52
Variance 1			0.07	-0.04	-3.59			-0.02	-2.81
Variance 2			0.02	-0.03	-0.63			-0.02	-0.98

Notes

1050 start purging at 100mL/min; 1125 all parameters stable; 1130 sampled at 100mL/min.

Grab Samples

MW-27D-20180220-01

Sampled at 1130

Product Name: Low-Flow System

Date: 2018-02-20 13:53:01

Project Information:		Pump Information:	
Operator Name	Markevious Thomas	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	.17 in
Site Name	AGL - Macon	Tubing Length	125 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	463072		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	110 ft

Well Information:		Pumping Information:	
Well ID	MW-27DD	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.6479279 L
Well Total Depth	115 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	7.86 ft	Total Volume Pumped	3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	13:25:03	600.02	20.48	6.92	630.10	2.18	7.87	0.66	-4.54
Last 5	13:30:03	899.93	21.14	6.90	624.69	2.72	7.87	0.50	-15.83
Last 5	13:35:03	1199.93	22.16	6.89	622.47	3.11	7.87	0.37	-23.27
Last 5	13:40:03	1499.93	22.23	6.89	622.43	1.64	7.87	0.37	-28.94
Last 5	13:45:03	1799.93	21.46	6.92	625.87	1.40	7.87	0.34	-32.98
Variance 0			1.01	-0.01	-2.22			-0.13	-7.44
Variance 1			0.08	0.00	-0.04			-0.00	-5.67
Variance 2			-0.77	0.02	3.44			-0.03	-4.04

Notes

1315 start purging at 100mL/min; 1345 all parameters stable; 1350 sampled at 100mL/min

Grab Samples

MW-27DD-20180220-01

Sampled at 1350

Product Name: Low-Flow System

Date: 2018-02-21 16:43:30

Project Information:		Pump Information:	
Operator Name	T. Payne	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL Macon	Tubing Length	20 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	465016		
Turbidity Make/Model	LaMotte2020we	Pump placement from TOC	12 ft

Well Information:		Pumping Information:	
Well ID	MW-28	Final Pumping Rate	200 mL/min
Well diameter	2 in	Total System Volume	0.1792685 L
Well Total Depth	17 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	5.16 in
Depth to Water	1.76 ft	Total Volume Pumped	5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	16:18:38	600.02	21.99	6.14	199.86	11.40	2.08	2.14	40.72
Last 5	16:23:38	900.01	21.12	6.12	212.34	12.40	2.17	1.75	41.60
Last 5	16:28:38	1200.00	21.23	6.09	221.45	10.51	2.19	2.05	42.31
Last 5	16:33:38	1499.99	21.05	6.08	226.13	10.24	2.19	0.93	42.67
Last 5	16:38:38	1799.99	21.09	6.08	220.69	7.76	2.19	1.02	42.53
Variance 0			0.11	-0.03	9.11			0.30	0.70
Variance 1			-0.18	-0.01	4.68			-1.12	0.37
Variance 2			0.04	0.00	-5.45			0.09	-0.15

Notes

Increase purge rate from 0.1 to 0.2 at 1638.

Grab Samples

MW-28-20180221-01

1640

Product Name: Low-Flow System

Date: 2018-02-27 11:06:40

Project Information:		Pump Information:	
Operator Name	Hannah Beaugh	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL - Macon	Tubing Length	24 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	513028		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	14 ft

Well Information:		Pumping Information:	
Well ID	MW-101	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.1971222 L
Well Total Depth	15 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	6.12 in
Depth to Water	10.74 ft	Total Volume Pumped	5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	10:37:25	600.02	16.78	5.70	324.45	6.08	11.32	0.15	104.08
Last 5	10:42:25	900.02	16.91	5.62	324.47	4.49	11.42	0.13	101.69
Last 5	10:47:25	1200.02	17.00	5.58	329.08	3.85	11.49	0.11	100.77
Last 5	10:52:25	1500.02	17.22	5.57	334.40	3.34	11.31	0.15	100.31
Last 5	10:57:25	1800.02	17.58	5.54	338.13	2.57	11.25	0.14	100.73
Variance 0			0.09	-0.04	4.61			-0.02	-0.92
Variance 1			0.22	-0.01	5.32			0.03	-0.46
Variance 2			0.36	-0.03	3.73			-0.01	0.43

Notes

MW-101 Sampled at 1100. DUP-6 collected

Grab Samples

MW-101-20180227-01

Sample time: 1100

DUP-6-20180227-01

Duplicate

Product Name: Low-Flow System

Date: 2018-02-22 12:10:47

Project Information:		Pump Information:	
Operator Name	T. Payne	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL Macon	Tubing Length	18 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	465016		
Turbidity Make/Model	LaMotte2020we	Pump placement from TOC	10 ft

Well Information:		Pumping Information:	
Well ID	MW-102	Final Pumping Rate	200 mL/min
Well diameter	2 in	Total System Volume	0.1703416 L
Well Total Depth	13 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	4.92 in
Depth to Water	8.31 ft	Total Volume Pumped	9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	11:46:44	1799.98	18.29	5.64	445.24	1.22	8.72	1.27	73.39
Last 5	11:51:44	2099.98	18.25	5.60	459.89	1.27	8.72	1.04	73.31
Last 5	11:56:44	2399.97	18.26	5.57	476.65	1.09	8.72	0.90	73.38
Last 5	12:01:44	2699.96	18.34	5.55	479.98	0.73	8.72	0.82	73.30
Last 5	12:06:44	2999.95	18.36	5.53	484.32	0.88	8.72	0.74	73.24
Variance 0			0.01	-0.03	16.76			-0.14	0.07
Variance 1			0.08	-0.03	3.33			-0.08	-0.08
Variance 2			0.02	-0.01	4.35			-0.08	-0.05

Notes

Increase purge rate from 0.1 to 0.2 at 1126

Grab Samples

MW-102-20180222-01

1210

Product Name: Low-Flow System

Date: 2018-02-22 12:37:21

Project Information:		Pump Information:	
Operator Name	Hannah Beaugh	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL - Macon	Tubing Length	28 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	513028		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	18 ft

Well Information:		Pumping Information:	
Well ID	MW-103	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.2149758 L
Well Total Depth	20 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0.96 in
Depth to Water	15.23 ft	Total Volume Pumped	6.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	12:09:42	900.84	20.34	5.09	81.04	1.95	15.31	4.84	81.58
Last 5	12:14:42	1200.84	20.42	5.06	80.33	1.44	15.32	4.33	86.25
Last 5	12:19:42	1500.84	20.47	5.05	79.21	1.54	15.32	3.96	89.40
Last 5	12:24:42	1800.84	20.60	5.01	80.45	1.61	15.31	3.74	94.38
Last 5	12:29:42	2100.84	20.67	5.01	81.14	1.64	15.31	3.59	96.01
Variance 0			0.05	-0.00	-1.12			-0.37	3.15
Variance 1			0.12	-0.04	1.24			-0.22	4.98
Variance 2			0.08	-0.00	0.69			-0.15	1.63

Notes

MW-103 sampled at 1235

Grab Samples

MW-103

Sample time: 1235

Product Name: Low-Flow System

Date: 2018-02-22 14:33:54

Project Information:		Pump Information:	
Operator Name	T. Payne	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL Macon	Tubing Length	21 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	465016		
Turbidity Make/Model	LaMotte2020we	Pump placement from TOC	13 ft

Well Information:		Pumping Information:	
Well ID	MW-104	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.1837319 L
Well Total Depth	20 ft	Calculated Sample Rate	300 sec
Screen Length	15 ft	Stabilization Drawdown	5.52 in
Depth to Water	5.93 ft	Total Volume Pumped	2.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	14:10:03	300.04	28.38	5.68	0.00	3.35	6.12	7.68	90.13
Last 5	14:15:03	600.03	23.57	5.87	152.71	4.58	6.25	1.69	54.53
Last 5	14:20:03	900.02	21.85	5.85	154.85	3.37	6.35	1.24	54.16
Last 5	14:25:03	1200.01	21.50	5.85	155.71	3.07	6.39	1.32	54.11
Last 5	14:30:03	1500.00	22.28	5.84	158.25	2.51	6.39	2.20	53.25
Variance 0			-1.73	-0.02	2.14			-0.45	-0.38
Variance 1			-0.34	0.00	0.86			0.08	-0.05
Variance 2			0.78	-0.02	2.54			0.88	-0.86

Notes

Noticed flow cell was leaking at 1410. Paused Purging. Resumes at 1413

Grab Samples

MW-104-20180222-01

1435

Product Name: Low-Flow System

Date: 2018-02-22 16:16:28

Project Information:		Pump Information:	
Operator Name	T. Payne	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL Macon	Tubing Length	12 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	465016		
Turbidity Make/Model	LaMotte2020we	Pump placement from TOC	20 ft

Well Information:		Pumping Information:	
Well ID	MW-104I	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.1435611 L
Well Total Depth	15 ft	Calculated Sample Rate	300 sec
Screen Length	5 ft	Stabilization Drawdown	3.96 in
Depth to Water	6.57 ft	Total Volume Pumped	4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	15:53:29	1200.01	23.43	5.96	145.02	14.20	6.96	2.62	52.64
Last 5	15:58:29	1500.00	23.39	5.95	144.83	13.30	6.96	2.52	52.61
Last 5	16:03:28	1799.99	23.38	5.94	145.74	11.50	6.96	1.31	52.97
Last 5	16:08:30	2101.98	23.22	5.95	146.65	10.86	6.96	1.11	52.75
Last 5	16:13:30	2401.97	23.48	5.94	146.49	8.78	6.96	1.68	52.65
Variance 0			-0.00	-0.01	0.90			-1.21	0.36
Variance 1			-0.16	0.00	0.91			-0.20	-0.22
Variance 2			0.26	-0.01	-0.16			0.57	-0.10

Notes

Initial drawdown but stabilized quickly.

Grab Samples

MW-104I-20180222-01

1615

Product Name: Low-Flow System

Date: 2018-02-21 15:11:40

Project Information:		Pump Information:	
Operator Name	T. Payne	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL Macon	Tubing Length	28 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	465016		
Turbidity Make/Model	LaMotte2020we	Pump placement from TOC	20 ft

Well Information:		Pumping Information:	
Well ID	MW-105	Final Pumping Rate	250 mL/min
Well diameter	2 in	Total System Volume	0.2149758 L
Well Total Depth	25 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0.72 in
Depth to Water	5.77 ft	Total Volume Pumped	4.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	14:50:14	300.13	24.65	5.79	366.71	4.68	5.79	1.50	59.49
Last 5	14:55:14	600.02	23.81	5.81	354.08	1.50	5.79	1.07	60.58
Last 5	15:00:14	900.01	21.13	5.79	359.22	1.17	5.82	0.58	59.75
Last 5	15:05:14	1200.00	21.06	5.76	357.09	1.00	5.83	0.56	59.78
Last 5	15:10:14	1499.99	21.19	5.77	355.10	1.11	5.83	0.56	60.03
Variance 0			-2.68	-0.02	5.14			-0.50	-0.83
Variance 1			-0.08	-0.03	-2.13			-0.02	0.03
Variance 2			0.13	0.01	-1.99			-0.00	0.25

Notes

Increase purge rate from 0.1 to 0.25 at 1455.

Grab Samples

MW-105-20180221-01

1515

Product Name: Low-Flow System

Date: 2018-02-22 14:21:25

Project Information:		Pump Information:	
Operator Name	Hannah Beaugh	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL - Macon	Tubing Length	27 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	513028		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	17 ft

Well Information:		Pumping Information:	
Well ID	MW-106	Final Pumping Rate	250 mL/min
Well diameter	2 in	Total System Volume	0.2105124 L
Well Total Depth	19 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0.24 in
Depth to Water	13.45 ft	Total Volume Pumped	6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	13:55:08	300.02	21.85	5.66	388.05	1.28	13.46	1.16	92.91
Last 5	14:00:08	600.02	21.46	5.68	397.73	1.33	13.47	0.86	94.74
Last 5	14:05:08	900.02	21.41	5.67	404.21	1.19	13.47	0.71	96.95
Last 5	14:10:08	1200.02	21.39	5.66	410.08	1.31	13.47	0.61	98.32
Last 5	14:15:08	1500.02	21.46	5.63	411.01	1.21	13.47	0.55	100.78
Variance 0			-0.05	-0.01	6.47			-0.15	2.21
Variance 1			-0.02	-0.01	5.87			-0.10	1.37
Variance 2			0.07	-0.02	0.93			-0.06	2.46

Notes

MW-106 sampled at 1420

Grab Samples

MW-106-20180222-01

Sample time: 1420

Product Name: Low-Flow System

Date: 2018-02-22 16:41:04

Project Information:		Pump Information:	
Operator Name	Hannah Beaugh	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL - Macon	Tubing Length	25 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	513028		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	15 ft

Well Information:		Pumping Information:	
Well ID	MW-107	Final Pumping Rate	250 mL/min
Well diameter	2 in	Total System Volume	0.2015856 L
Well Total Depth	18 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0.6 in
Depth to Water	9.83 ft	Total Volume Pumped	17.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	16:12:22	3000.02	20.75	5.80	316.68	6.93	9.88	0.45	52.42
Last 5	16:17:22	3300.32	20.70	5.80	316.99	5.85	9.88	0.40	50.61
Last 5	16:22:22	3600.32	20.79	5.80	338.78	6.20	9.88	0.26	52.23
Last 5	16:27:22	3900.32	20.30	5.80	337.44	5.27	9.88	0.31	51.50
Last 5	16:32:22	4200.32	20.34	5.82	346.30	4.86	9.88	0.18	49.69
Variance 0			0.09	-0.01	21.80			-0.14	1.61
Variance 1			-0.49	0.01	-1.34			0.05	-0.72
Variance 2			0.04	0.02	8.86			-0.13	-1.81

Notes

MW-107 sampled at 1635

Grab Samples

MW-107-20180222-01

Sample time: 1635

Product Name: Low-Flow System

Date: 2018-02-21 14:29:02

Project Information:		Pump Information:	
Operator Name	E. Gant	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL - Macon	Tubing Length	30 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	449622		
Turbidity Make/Model	LaMotte 2020	Pump placement from TOC	15 ft

Well Information:		Pumping Information:	
Well ID	MW-108	Final Pumping Rate	125 mL/min
Well diameter	2 in	Total System Volume	3.223903 L
Well Total Depth	20 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0.06 in
Depth to Water	7.15 ft	Total Volume Pumped	12.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	14:06:32	3599.93	22.91	6.31	686.05	4.85	7.86	0.36	-10.60
Last 5	14:11:32	3899.93	22.97	6.32	708.11	4.91	7.86	0.41	-14.18
Last 5	14:16:32	4199.93	23.52	6.32	682.82	3.76	7.86	0.37	-17.10
Last 5	14:21:32	4499.93	23.48	6.32	707.97	4.29	7.86	0.35	-20.17
Last 5	14:26:35	4802.93	23.11	6.33	675.55	--	--	0.33	-22.94
Variance 0			0.55	0.00	-25.29			-0.04	-2.92
Variance 1			-0.04	0.00	25.15			-0.02	-3.07
Variance 2			-0.37	0.00	-32.42			-0.02	-2.76

Notes

Began at 1310 and ended/ began sampling at 1425

Grab Samples

Product Name: Low-Flow System

Date: 2018-02-20 15:17:53

Project Information:		Pump Information:	
Operator Name	A. Ellis	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL Macon	Tubing Length	60 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	501336		
Turbidity Make/Model	Lamotte	Pump placement from TOC	52 ft

Well Information:		Pumping Information:	
Well ID	MW-108D	Final Pumping Rate	100 mL/min
Well diameter	4 in	Total System Volume	0.3578054 L
Well Total Depth	58.5 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	3.84 in
Depth to Water	11.78 ft	Total Volume Pumped	4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	14:49:00	900.02	23.86	9.00	189.90	0.60	11.98	0.43	8.20
Last 5	14:54:00	1200.02	23.69	8.93	187.67	0.51	12.02	0.35	2.74
Last 5	14:59:01	1501.02	23.56	8.90	187.01	0.82	12.06	0.31	-0.39
Last 5	15:04:01	1801.02	23.53	8.89	186.60	0.71	12.09	0.30	-3.52
Last 5	15:14:03	2403.02	23.38	8.85	185.22	0.49	12.10	0.27	-7.56
Variance 0			-0.13	-0.03	-0.66			-0.04	-3.13
Variance 1			-0.02	-0.01	-0.42			-0.01	-3.13
Variance 2			-0.16	-0.04	-1.37			-0.03	-4.04

Notes

Purge time 1434/1514

Grab Samples

MW-108D-20180220-01

1514

Product Name: Low-Flow System

Date: 2018-02-21 17:11:20

Project Information:		Pump Information:	
Operator Name	E. Gant	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL - Macon	Tubing Length	38 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	449622		
Turbidity Make/Model	LaMotte 2020	Pump placement from TOC	10 ft

Well Information:		Pumping Information:	
Well ID	MW-109	Final Pumping Rate	165 mL/min
Well diameter	2 in	Total System Volume	3.25961 L
Well Total Depth	23.5 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	1.46 in
Depth to Water	7.45 ft	Total Volume Pumped	3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	16:48:05	600.02	23.07	5.43	173.64	0.55	9.30	1.25	47.08
Last 5	16:53:04	899.94	23.29	5.37	173.33	0.82	9.73	1.15	54.84
Last 5	16:58:04	1199.93	23.70	5.32	172.71	0.17	9.91	1.09	60.03
Last 5	17:03:04	1499.94	23.55	5.29	173.46	1.08	10.00	1.04	64.10
Last 5	17:08:15	1810.93	23.71	5.30	172.12	0.68	10.10	0.79	65.63
Variance 0			0.41	-0.05	-0.61			-0.06	5.20
Variance 1			-0.15	-0.04	0.74			-0.05	4.07
Variance 2			0.16	0.01	-1.34			-0.24	1.54

Notes

Started at 1640 and began sampling at 1710. Had to slow down pump speed due to little recharge

Grab Samples

Product Name: Low-Flow System

Date: 2018-02-22 14:21:35

Project Information:		Pump Information:	
Operator Name	Markevious Thomas	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	.17 in
Site Name	AGL - Macon	Tubing Length	35 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	463072		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	25 ft

Well Information:		Pumping Information:	
Well ID	MW-110D	Final Pumping Rate	100 mL/min
Well diameter	4 in	Total System Volume	0.2462198 L
Well Total Depth	30 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	1 in
Depth to Water	7.38 ft	Total Volume Pumped	4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	13:55:02	300.03	23.26	6.39	553.77	11.74	7.41	0.43	-55.02
Last 5	14:00:02	600.02	22.94	6.41	558.04	4.74	7.43	0.13	-58.38
Last 5	14:05:02	900.06	22.99	6.40	556.82	5.20	7.43	0.11	-58.61
Last 5	14:10:02	1200.06	22.98	6.39	556.36	4.51	7.43	0.10	-58.61
Last 5	14:15:02	1500.06	22.80	6.39	556.50	3.49	7.43	0.09	-58.93
Variance 0			0.05	-0.00	-1.22			-0.03	-0.23
Variance 1			-0.01	-0.01	-0.46			-0.01	0.00
Variance 2			-0.18	-0.00	0.14			-0.01	-0.33

Notes

1350 began purge at 100mL/min; 1355 increase purge rate to 200mL/min; 1415 all parameters stable; 1420 sampled at 200mL/min.

Grab Samples

MW-110D-20180222-01

Sampled at 1420

Product Name: Low-Flow System

Date: 2018-02-20 16:12:06

Project Information:		Pump Information:	
Operator Name	Markevious Thomas	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	.17 in
Site Name	AGL - Macon	Tubing Length	45 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	463072		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	31 ft

Well Information:		Pumping Information:	
Well ID	MW-112D	Final Pumping Rate	100 mL/min
Well diameter	4 in	Total System Volume	0.290854 L
Well Total Depth	36 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	19.68 in
Depth to Water	4.81 ft	Total Volume Pumped	6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	15:40:08	1500.02	20.43	9.71	298.14	0.43	6.51	5.53	33.65
Last 5	15:45:08	1800.02	20.48	9.72	298.35	0.87	6.66	5.55	33.23
Last 5	15:50:09	2100.93	20.39	9.73	297.55	0.47	6.81	5.49	33.36
Last 5	15:55:09	2400.93	20.45	9.77	298.84	0.61	6.95	5.48	32.80
Last 5	16:00:09	2700.92	20.48	9.77	300.47	0.75	7.07	5.52	32.55
Variance 0			-0.09	0.01	-0.80			-0.06	0.13
Variance 1			0.06	0.03	1.29			-0.01	-0.56
Variance 2			0.03	0.01	1.63			0.04	-0.25

Notes

1515 began purge at 200mL/min; 1530 reduced purge rate to 100mL/min; 1600 all parameters stable; 1605 sampled at 100mL/min

Grab Samples

MW-112D-20180220-01

Sampled at 1605

ERM

GROUND WATER SAMPLING L. HEET

Client: ACL | Project No.: 0366660 | Sampling Date: 02/21/2018

Site/Location: MACON, GA | Sampler's Name: A. SHOREDITS

Well ID: MW-113D | Pump Type/Model: ALEXIS PERISTALTIC | Sample Collection Time: 10:05

Total Depth (ft)[a]: (39.5) 39.43' TOC | Tubing Material: LDPE 0.17"ID, 0.25"OD | Sample Purge Rate (L/min)[c]: 0.13

Depth to Water (ft): 8.19 TOC | Pump Intake Depth (ft): 34.0' TOC | Sample ID: MW-113D-20180221-01

Well Diameter (in): 2.00 | Purge Method: LOW FLOW/VOLUME | QA/QC Collected? NO

*Well Volume (gal) = 0.041d²h: 5.06 (19.2L) | Start/Stop Purge Time: 09:32 / 10:01 | QA/QC I.D. NA

Purge Rate (L/min)[b]: 0.1 / 0.13 | Total Purge Volume (L): 3.60 | Laboratory Analyses: SEE COC

Well Type: (Flush) / Stick Up | Sampling Method: ☑ soda straw

Well Cap Condition: (Good) / Replace / Other | (check all that apply) ☐ pump head discharge

Well Lock: (Yes) / No | Well Bolted: (Yes) / No | Bolts Needed: Yes / (No) | ☐ Bailer (only used if necessary)

Time[d]	Temp. (°C)	Spec. Cond. ~~(mS/cm)~~ µS/cm	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
09:36	21.00	573	11.08	5.58	120.1	0.88	0.5	8.24	Slight odour, clear water
09:41	20.89	591	9.07	5.61	97.8	1.00	1.0	8.26	Increased purge rate to 0.13L/min
09:46	21.10	591	8.39	5.64	94.9	1.23	1.65	8.29	
09:51	21.14	590	8.06	5.64	95.4	1.49	2.30	8.29	
09:56	21.10	584	1.70	5.64	97.7	0.53	2.95	8.31	
10:01	21.08	582	1.68	5.64	100.6	0.51	3.60	8.31	DO is stable.
PARAMETERS ARE STABLE, WELL CAN BE SAMPLED									
Stabilizing Criteria[e]	+/- 1°C ✓	17.7 +/- 3% ✓	+/- 10% (see note below)[g]	+/- 0.1 unit ✓	+/- 10 mV (see note below)[h] ✓	<10 NTUs OR +/- 10% ✓	(see note below)[d]	(see note below)[f] ✓	

(a) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom
(b) - Purge rate to be 0.5 lpm or less
(c) - Sampling rate to be 0.25 lpm or less
(d) - Field parameter measurements to be recorded every 3 to 5 minutes
(e) - Stabilization criteria based on three most recent consecutive measurements
(f) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less since ititial reading. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft before switching to three well volume method
(g) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure
(h) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

* d = well diameter (inches); h = length of water column (feet)

Casing Diameter	Gallons per foot
1 in	0.12
2 in	0.16
4 in	0.64

Product Name: Low-Flow System

Date: 2018-02-21 18:21:36

Project Information:		Pump Information:	
Operator Name	Markevious Thomas	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	.17 in
Site Name	AGL - Macon	Tubing Length	50 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	463072		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	35 ft

Well Information:		Pumping Information:	
Well ID	MW-114D	Final Pumping Rate	100 mL/min
Well diameter	4 in	Total System Volume	0.3131711 L
Well Total Depth	40 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	18.6 in
Depth to Water	8.05 ft	Total Volume Pumped	7.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	17:15:03	3299.99	23.90	8.17	422.83	0.10	9.40	5.32	90.68
Last 5	17:20:03	3599.99	24.06	8.14	422.52	0.14	9.45	5.17	88.12
Last 5	17:25:03	3899.98	24.06	8.10	423.37	0.23	9.50	5.02	87.08
Last 5	17:30:03	4199.99	23.89	8.06	423.83	0.23	9.54	4.84	86.50
Last 5	17:35:03	4499.96	23.81	8.04	423.94	0.24	9.60	4.69	83.72
Variance 0			0.00	-0.04	0.86			-0.15	-1.04
Variance 1			-0.17	-0.03	0.45			-0.18	-0.58
Variance 2			-0.09	-0.03	0.11			-0.15	-2.77

Notes

1620 start purging at 100mL/min; 1735 all parameters stable; 1740 sampled at 100mL/min

Grab Samples

MW-114D-20180221-01

Sampled at 1740

Product Name: Low-Flow System

Date: 2018-02-22 15:54:25

Project Information:		Pump Information:	
Operator Name	Markevious Thomas	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	.17 in
Site Name	AGL - Macon	Tubing Length	45 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	463072		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	35 ft

Well Information:		Pumping Information:	
Well ID	MW-200DR	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.290854 L
Well Total Depth	39.5 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	22 in
Depth to Water	5.92 ft	Total Volume Pumped	6.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	15:30:03	1200.03	23.11	6.54	553.90	0.26	7.05	0.10	-64.92
Last 5	15:35:03	1500.03	23.29	6.55	554.85	1.56	7.47	0.09	-66.39
Last 5	15:40:03	1800.02	23.43	6.56	552.00	2.21	7.70	0.08	-66.37
Last 5	15:45:03	2100.02	23.42	6.55	549.80	0.40	7.76	0.07	-65.26
Last 5	15:50:03	2400.02	23.52	6.54	542.96	--	--	0.07	-63.88
Variance 0			0.14	0.01	-2.86			-0.01	0.01
Variance 1			-0.01	-0.01	-2.19			-0.00	1.11
Variance 2			0.10	-0.01	-6.85			-0.00	1.39

Notes

1510 start purging at 100mL/min; 1525 increase purge rate to 200mL/min; 1550 all parameters stable; 1555 sampled at 200mL/min.

Grab Samples

MW-200DR-20180222-01

Sampled at 1555

Product Name: Low-Flow System

Date: 2018-02-22 11:56:33

Project Information:		Pump Information:	
Operator Name	Markevious Thomas	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	.17 in
Site Name	AGL - Macon	Tubing Length	45 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	463072		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	37 ft

Well Information:		Pumping Information:	
Well ID	MW-204D	Final Pumping Rate	100 mL/min
Well diameter	4 in	Total System Volume	0.290854 L
Well Total Depth	45.5 ft	Calculated Sample Rate	300 sec
Screen Length	15 ft	Stabilization Drawdown	3.12 in
Depth to Water	7.64 ft	Total Volume Pumped	5.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	11:20:05	600.02	22.09	6.47	492.39	3.47	7.80	0.18	-35.90
Last 5	11:25:05	900.03	22.22	6.42	485.64	0.49	7.83	0.14	-36.47
Last 5	11:30:05	1200.04	22.07	6.35	477.94	0.78	7.86	0.13	-35.63
Last 5	11:35:05	1500.04	22.20	6.31	472.80	0.90	7.88	0.11	-35.97
Last 5	11:40:05	1800.04	22.04	6.31	474.92	0.74	7.90	0.11	-36.95
Variance 0			-0.16	-0.07	-7.70			-0.02	0.85
Variance 1			0.14	-0.04	-5.14			-0.01	-0.34
Variance 2			-0.17	0.00	2.13			-0.00	-0.98

Notes

1115 began purge at 100mL/min; 1115 increase purge rate to 200mL/min; 1140 all parameters stable; 1145 sampled at 200mL/min

Grab Samples

MW-204D-20180222-01

Sampled at 1145

DUP-4-20180222-01

Sampled at 1145

Product Name: Low-Flow System

Date: 2018-02-21 15:35:57

Project Information:		Pump Information:	
Operator Name	Hannah Beaugh	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL - Macon	Tubing Length	32 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	513028		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	22 ft

Well Information:		Pumping Information:	
Well ID	MW-205	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.2328295 L
Well Total Depth	29 ft	Calculated Sample Rate	300 sec
Screen Length	15 ft	Stabilization Drawdown	8.28 in
Depth to Water	7.21 ft	Total Volume Pumped	3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	15:07:50	600.02	26.82	5.97	312.61	3.94	7.78	0.21	-15.97
Last 5	15:12:50	900.02	26.80	6.02	311.98	3.03	7.83	0.16	-30.93
Last 5	15:17:50	1200.02	26.78	6.03	313.04	3.62	7.86	0.13	-45.02
Last 5	15:22:50	1500.02	26.55	6.06	312.29	3.18	7.88	0.13	-57.91
Last 5	15:27:51	1800.88	26.10	6.08	313.89	2.80	7.90	0.11	-67.87
Variance 0			-0.03	0.02	1.05			-0.03	-14.09
Variance 1			-0.23	0.02	-0.75			-0.00	-12.89
Variance 2			-0.45	0.02	1.60			-0.01	-9.95

Notes

MW-205 sampled at 1530

Grab Samples

MW-205-20180221-01

Sample time: 1530

Product Name: Low-Flow System

Date: 2018-02-26 12:46:16

Project Information:		Pump Information:	
Operator Name	Markevious Thomas	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	.17 in
Site Name	AGL - Macon	Tubing Length	45 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	463072		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	35 ft

Well Information:		Pumping Information:	
Well ID	MW-205D	Final Pumping Rate	200 mL/min
Well diameter	4 in	Total System Volume	0.290854 L
Well Total Depth	43 ft	Calculated Sample Rate	300 sec
Screen Length	15 ft	Stabilization Drawdown	3 in
Depth to Water	6.86 ft	Total Volume Pumped	6.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	11:20:06	900.04	20.84	6.99	732.01	1.54	7.03	0.10	-56.86
Last 5	11:25:06	1200.05	21.04	7.00	729.39	1.34	7.06	0.09	-67.64
Last 5	11:30:06	1500.04	21.18	7.01	729.34	1.39	7.08	0.07	-74.71
Last 5	11:35:06	1800.04	21.21	7.01	729.76	1.39	7.09	0.09	-78.26
Last 5	11:40:06	2100.04	21.25	7.02	729.57	1.21	7.10	0.08	-80.62
Variance 0			0.14	0.01	-0.05			-0.01	-7.07
Variance 1			0.03	0.00	0.43			0.01	-3.54
Variance 2			0.04	0.01	-0.20			-0.01	-2.36

Notes

1105 began purge at 100mL/min; 1110 increase purge rate to 200/mL/min; 1140 all parameters stable; 1145 sampled at 200mL/min

Grab Samples

MW-205D-20180226-01

Sampled at 1145

DUP-5-20180226-01

Sample at 1145

Product Name: Low-Flow System

Date: 2018-02-23 12:02:36

Project Information:		Pump Information:	
Operator Name	Hannah Beaugh	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL - Macon	Tubing Length	105 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	513028		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	95 ft

Well Information:		Pumping Information:	
Well ID	MW-205DD	Final Pumping Rate	100 mL/min
Well diameter	4 in	Total System Volume	0.5586594 L
Well Total Depth	100 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	15.6 in
Depth to Water	13.77 ft	Total Volume Pumped	4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	11:32:59	900.52	23.78	8.27	470.29	2.76	14.26	0.88	-66.88
Last 5	11:37:59	1200.52	24.00	8.28	463.57	3.22	14.48	0.90	-73.26
Last 5	11:42:59	1500.52	23.96	8.29	459.30	3.23	14.70	0.85	-77.56
Last 5	11:47:59	1800.52	23.97	8.32	459.92	2.59	14.88	0.80	-82.48
Last 5	11:52:59	2100.52	24.28	8.35	454.71	3.22	15.07	0.77	-86.52
Variance 0			-0.04	0.01	-4.27			-0.05	-4.29
Variance 1			0.00	0.02	0.63			-0.05	-4.93
Variance 2			0.31	0.03	-5.22			-0.03	-4.04

Notes

MW-205DD Sampled at 1155

Grab Samples

MW-205DD-20180223-01

Sample time: 1155

Product Name: Low-Flow System

Date: 2018-02-23 12:03:16

Project Information:		Pump Information:	
Operator Name	Markevious Thomas	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	.17 in
Site Name	AGL - Macon	Tubing Length	48 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	463072		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	37 ft

Well Information:		Pumping Information:	
Well ID	MW-206D	Final Pumping Rate	200 mL/min
Well diameter	4 in	Total System Volume	0.3042443 L
Well Total Depth	46 ft	Calculated Sample Rate	300 sec
Screen Length	15 ft	Stabilization Drawdown	1 in
Depth to Water	6.92 ft	Total Volume Pumped	27 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	11:35:02	6901.01	22.98	6.29	532.26	11.40	7.00	0.06	-12.36
Last 5	11:40:02	7201.01	22.98	6.29	535.92	11.97	7.00	0.06	-12.49
Last 5	11:45:04	7503.01	23.07	6.29	532.90	11.88	7.00	0.05	-12.07
Last 5	11:50:04	7803.01	23.34	6.29	531.19	12.36	7.00	0.05	-12.18
Last 5	11:55:04	8102.95	23.34	6.28	530.13	11.65	7.00	0.05	-11.98
Variance 0			0.09	-0.00	-3.02			-0.00	0.42
Variance 1			0.27	-0.00	-1.70			0.00	-0.11
Variance 2			-0.00	-0.01	-1.06			-0.00	0.20

Notes

094O began purge at 200mL/min; 1155 all parameters stable; 1200 sampled at 200mL/min

Grab Samples

MW-206D-20180223-01

Sampled at 1200

Product Name: Low-Flow System

Date: 2018-02-22 09:47:00

Project Information:		Pump Information:	
Operator Name	Markevious Thomas	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	.17 in
Site Name	AGL - Macon	Tubing Length	50 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	463072		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	40 ft

Well Information:		Pumping Information:	
Well ID	MW-207**D**	Final Pumping Rate	100 mL/min
Well diameter	4 in	Total System Volume	0.3131711 L
Well Total Depth	46.5 ft	Calculated Sample Rate	300 sec
Screen Length	12.5 ft	Stabilization Drawdown	3.6 in
Depth to Water	6.91 ft	Total Volume Pumped	3.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	09:15:18	1199.98	21.55	6.87	598.29	11.20	7.15	0.26	-99.67
Last 5	09:20:18	1499.98	21.54	6.88	593.10	11.10	7.17	0.24	-95.76
Last 5	09:25:18	1799.98	21.52	6.88	589.24	2.46	7.18	0.22	-91.73
Last 5	09:30:18	2100.03	21.43	6.89	587.80	2.60	7.21	0.21	-90.15
Last 5	09:35:18	2400.01	21.44	6.89	587.40	1.73	7.21	0.20	-88.75
Variance 0			-0.02	0.01	-3.86			-0.02	4.03
Variance 1			-0.08	0.00	-1.44			-0.02	1.58
Variance 2			0.00	0.01	-0.40			-0.01	1.40

Notes

0855 start purging at 100/mL/min; 0935 all parameters stable; 0940 began sampling at 100mL/min

Grab Samples

MW-207D-20180222-01

Sampled at 0940

Product Name: Low-Flow System

Date: 2018-02-22 16:12:40

Project Information:		Pump Information:	
Operator Name	A. Ellis	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL Macon	Tubing Length	45 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	501336		
Turbidity Make/Model	Lamotte	Pump placement from TOC	38 ft

Well Information:		Pumping Information:	
Well ID	MW-300D	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.290854 L
Well Total Depth	43 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	43.68 in
Depth to Water	4.79 ft	Total Volume Pumped	16 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	15:49:29	8401.82	24.83	6.05	337.64	7.09	8.36	0.12	50.71
Last 5	15:54:29	8701.74	25.06	6.05	342.46	1.33	8.40	0.11	49.35
Last 5	15:59:29	9001.74	24.85	6.06	342.17	1.36	8.41	0.11	48.28
Last 5	16:04:29	9301.74	25.18	6.06	345.28	1.23	8.42	0.12	47.22
Last 5	16:09:29	9601.74	25.23	6.05	351.76	1.06	8.43	0.12	46.42
Variance 0			-0.21	0.02	-0.29			0.00	-1.07
Variance 1			0.33	-0.01	3.11			0.00	-1.07
Variance 2			0.04	-0.00	6.48			0.00	-0.80

Notes

Purge time 1329/1609; Sp. Cond. & WL slow to stabilize.

Grab Samples

MW-300D-20180222-01

1609

ERM

GROUND WATER SAMPLING L HEET

Client: AGL | Project No.: 0366160 | Sampling Date: 02/22/2018

Site/Location: MACON, GA | Sampler's Name: A. SHOREDITS

Well ID: MW-301D | Pump Type/Model: ALEXIS PERISTALTIC | Sample Collection Time: 09:50

Total Depth (ft)[a]: (48.85') 49.92' stick up | Tubing Material: LDPE 0.17"ID, 0.25"OD | Sample Purge Rate (L/min)[c]: 0.13

Depth to Water (ft): 12.00 | Pump Intake Depth (ft): 43.0' | Sample ID: MW-301D-20180222-01

Well Diameter (in): 2.00 | Purge Method: LOW FLOW/VOLUME | QA/QC Collected? NO

*Well Volume (gal) = 0.041d²h: 6.00 (22.7L) | Start/Stop Purge Time: 09:07 / 09:47 | QA/QC I.D. NA

Purge Rate (L/min)[b]: 0.1 / 0.13 | Total Purge Volume (L): _____ | Laboratory Analyses: SEE COC

Well Type: Flush / ~~Stick Up~~ | Sampling Method: ☑ soda straw

Well Cap Condition: ~~Good~~ / Replace / Other | (check all that apply) ☑ pump head discharge

Well Lock: (Yes) / No | Well Bolted: Yes / No | Bolts Needed: Yes / No | ☐ Bailer (only used if necessary)

Time[d]	Temp. (°C)	Spec. Cond. ~~mS/cm~~ µS/cm	DO (mg/L)	pH (SU)	ORP ~~ΔS~~ (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
09:12	19.06	1041	3.45	5.84	~~5~~ 106.8	2.50	0.5	12.23	Sulferous odour, black particles
09:17	19.13	1049	1.86	5.78	55.9	3.80	1.0	12.32	
09:22	19.24	1049	1.60	5.82	39.4	2.45	1.5	12.40	
09:27	19.17	1047	1.52	5.83	33.8	2.41	2.0	12.43	Turned purge rate up to 0.13L/min
09:32	19.15	1047	1.43	5.85	25.5	5.43	2.65	12.52	Drawdown continuing
09:37	19.32	1031	1.72	5.89	12.9	2.30	3.30	12.63	three volume purge not feasible
09:42	19.27	1026	1.54	5.90	9.0	5.03	3.95	12.69	DO & ORP are still dropping
09:47	19.27	1023	1.48	5.90	5.0	4.30	4.60	12.73	gradually
PARAMETERS ARE STABLE, WELL CAN BE SAMPLED									
PURGE VOLUME > DRAWDOWN VOLUME									
Stabilizing Criteria[e]	+/- 1°C ✓	SI +/- 3% ✓	+/- 10% (see note below)[g]	+/- 0.1 unit ✓	+/- 10 mV (see note below)[h]	<10 NTUs OR +/- 10% ✓	(see note below)[d]	(see note below)[f] ~	

(a) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom
(b) - Purge rate to be 0.5 lpm or less
(c) - Sampling rate to be 0.25 lpm or less
(d) - Field parameter measurements to be recorded every 3 to 5 minutes
(e) - Stabilization criteria based on three most recent consecutive measurements
(f) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less since ititial reading. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft before switching to three well volume method
(g) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure
(h) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

* d = well diameter (inches); h = length of water column (feet)

Casing Diameter	Gallons per foot
1 in	0.12
2 in	0.16
4 in	0.64

ERM

GROUND WATER SAMPLING L HEET

Client: ACL | Project No.: 0366660 | Sampling Date: 02/21/2018

Site/Location: MACON, GA | Sampler's Name: A. SHOREDITS

Well ID: MW-302D | Pump Type/Model: ALDEX PERISTALTIC | Sample Collection Time: 17:40

Total Depth (ft)[a]: (47.7') | Tubing Material: LDPE 0.17"ID, 0.25"OD | Sample Purge Rate (L/min)[c]: 0.1

Depth to Water (ft): 13.34 | Pump Intake Depth (ft): 37.0 btoc | Sample ID: MW-302D-20180221-01

Well Diameter (in): 2.00 | Purge Method: LOW FLOW/VOLUME | QA/QC Collected? NO

*Well Volume (gal) = 0.041d²h: 5.6 (21.2L) | Start/Stop Purge Time: 16:55/17:35 | QA/QC I.D. NA

Purge Rate (L/min)[b]: 0.1 4/ 0.1 | Total Purge Volume (L): 4.2 | Laboratory Analyses: SEE COC

Well Type: Flush (Stick Up) | Sampling Method: ☑ soda straw

Well Cap Condition: (Good) / Replace / Other | (check all that apply) ☑ pump head discharge

Well Lock: (Yes) / No | Well Bolted: Yes / No | Bolts Needed: Yes / No | ☐ Bailer (only used if necessary)

Time[d]	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
17:00	22.36	1053	12.46	5.45	22.0	1.66	0.7	14.06	Lowered purge rate to 0.1 L/min
17:05	21.94	1770	2.43	5.55	19.5	0.62	1.2	14.72	Oxygen/air bubbles in sample #
17:10	21.73	1641	1.77	5.62	11.9	0.80	1.7	15.35	Sulferous odour
17:15	22.31	1616	1.58	5.65	4.6	0.59	2.2	15.80	#Drawdown >0.3 ft, lowering purge
17:20	22.04	1602	1.82	5.68	1.1	0.76	2.7	16.25	rate slightly
17:25	22.11	1592	1.69	5.66	1.0	0.88	3.2	16.69	Black particles in water.
17:30	22.24	1606	1.72	5.66	-1.3	0.78	3.7	16.88	Drawdown is slowing.
17:35	22.31	1603	1.69	5.67	-2.7	0.91	4.2	17.15	PO & ORP are stable
THREE VOLUME METHOD NOT FEASIBLE GIVEN LARGE VOL. OF WATER, PURGED VOL. > DRAWDOWN VOL => RECHARGE EVIDENT.									
PARAMETERS ARE STABLE, WELL CAN BE SAMPLED									
Stabilizing Criteria[e]	+/- 1°C ✓	48.3 +/- 3% ✓	+/- 10% (see note below)[g]	+/- 0.1 unit ✓	+/- 10 mV (see note below)[h]	<10 NTUs OR +/- 10% ✓	(see note below)[d]	(see note below)[f]	

(a) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom

(b) - Purge rate to be 0.5 lpm or less

(c) - Sampling rate to be 0.25 lpm or less

(d) - Field parameter measurements to be recorded every 3 to 5 minutes

(e) - Stabilization criteria based on three most recent consecutive measurements

(f) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less since ititial reading. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft before switching to three well volume method

(g) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure

(h) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

* d = well diameter (inches); h = length of water column (feet)

Casing Diameter	Gallons per foot
1 in	0.12
2 in	0.16
4 in	0.64

ERM

GROUND WATER SAMPLING L[illegible]HEET

Client: AGL | Project No.: 0366660 | Sampling Date: 02/22/2018

Site/Location: MACON, GA | Sampler's Name: A. SHOREDITS

Well ID: MW-302DD | Pump Type/Model: ALEXIS PERISTALTIC | Sample Collection Time: 12:00

Total Depth (ft)[a]: (102.8') 105.71' btoc | Tubing Material: LDPE 0.17"ID, 0.25"OD | Sample Purge Rate (L/min)[c]: 0.2

Depth to Water (ft): 21.72 | Pump Intake Depth (ft): 88.0 | Sample ID: MW-302DD-20180222-01

Well Diameter (in): 2.00 | Purge Method: LOW FLOW / VOLUME | QA/QC Collected? NO

*Well Volume (gal) = 0.041d²h: 13.2 (50L) | Start/Stop Purge Time: 11:26 / 11:55 | QA/QC I.D. NA

Purge Rate (L/min)[b]: ~~0.75~~ 15/0.2 | Total Purge Volume (L): 5.5 | Laboratory Analyses: SEE COC

Well Type: Flush / ~~Stick Up~~

Well Cap Condition: ~~Good~~ / Replace / Other

Well Lock: ~~Yes~~ / No | Well Bolted: Yes / No | Bolts Needed: Yes / No

Sampling Method: ☑ soda straw
(check all that apply) ☑ pump head discharge
☐ Bailer (only used if necessary)

Time[d]	Temp. (°C)	Spec. Cond. ~~(ms/cm)~~	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
11:30	20.68	976	5.22	7.29	70.0	3.34	0.75	22.10	Bubbles in sample, slight sulfurous odor
11:35	20.55	966	2.68	7.13	29.5	13.5	1.5	22.28	Turn purge rate up to 0.2L/min.
11:40	20.41	958	1.46	7.15	-3.6	1.61	2.5	22.40	
11:45	20.36	952	0.97	7.18	-30.5	0.69	3.5	22.49	Water level stabilizing.
11:50	20.37	947	0.86	7.19	-47.9	0.66	4.5	22.52	
11:55	20.39	944	0.94	7.25	-64.8	0.63	5.5	22.52	ORP still dropping slightly
PARAMETERS ARE STABLE, WELL CAN BE SAMPLED.									
Stabilizing Criteria[e]	+/- ✓ 1°C	25.5 +/- ✓ 3%	+/- 10% (see note below)[g]	+/- ✓ 0.1 unit	+/- 10 mV (see note below)[h]	<10 NTUs ✓ OR +/- 10%	(see note below)[d]	(see note ✓ below)[f]	

(a) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom
(b) - Purge rate to be 0.5 lpm or less
(c) - Sampling rate to be 0.25 lpm or less
(d) - Field parameter measurements to be recorded every 3 to 5 minutes
(e) - Stabilization criteria based on three most recent consecutive measurements
(f) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less since itiitial reading. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft before switching to three well volume method
(g) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure
(h) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

* d = well diameter (inches); h = length of water column (feet)

Casing Diameter	Gallons per foot
1 in	0.12
2 in	0.16
4 in	0.64

Product Name: Low-Flow System

Date: 2018-02-21 15:34:17

Project Information:		Pump Information:	
Operator Name	A. Ellis	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL Macon	Tubing Length	55 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	501336		
Turbidity Make/Model	Lamotte	Pump placement from TOC	51 ft

Well Information:		Pumping Information:	
Well ID	MW-304D	Final Pumping Rate	100 mL/min
Well diameter	4 in	Total System Volume	0.3354883 L
Well Total Depth	61 ft	Calculated Sample Rate	300 sec
Screen Length	20 ft	Stabilization Drawdown	13.32 in
Depth to Water	15.90 ft	Total Volume Pumped	12.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	15:08:17	4502.98	21.71	6.38	837.54	28.80	17.01	0.16	60.97
Last 5	15:13:17	4802.98	21.63	6.38	842.85	29.80	17.01	0.16	60.48
Last 5	15:18:17	5102.98	22.15	6.38	837.63	52.70	17.01	0.16	59.92
Last 5	15:23:17	5402.98	22.03	6.37	834.99	38.20	17.01	0.15	60.05
Last 5	15:28:17	5702.98	21.72	6.38	838.61	36.20	17.01	0.15	59.68
Variance 0			0.52	-0.00	-5.22			-0.00	-0.55
Variance 1			-0.12	-0.00	-2.64			-0.01	0.12
Variance 2			-0.32	0.00	3.62			0.00	-0.36

Notes

Purge time 1353/1528; turbidity = 36.2 NTU - sampled as per Adria/Andreas instruction

Grab Samples

MW-304D-20180221-01

1528

Product Name: Low-Flow System

Date: 2018-02-27 12:45:45

Project Information:		Pump Information:	
Operator Name	Markevious Thomas	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	.17 in
Site Name	AGL - Macon	Tubing Length	45 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	463072		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	37 ft

Well Information:		Pumping Information:	
Well ID	MW-305D	Final Pumping Rate	100 mL/min
Well diameter	4 in	Total System Volume	0.290854 L
Well Total Depth	41.5 ft	Calculated Sample Rate	300 sec
Screen Length	6 ft	Stabilization Drawdown	46 in
Depth to Water	16.63 ft	Total Volume Pumped	11 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 0.2	+/- 100
Last 5	12:00:44	3600.05	20.88	13.16	4996.48	1.90	18.92	3.64	12.41
Last 5	12:05:44	3900.05	21.14	13.17	4853.24	1.50	19.32	3.73	13.62
Last 5	12:10:44	4200.05	21.22	13.18	4789.26	1.55	19.66	3.80	12.15
Last 5	12:15:44	4500.05	21.33	13.20	4725.96	2.00	20.05	3.76	11.06
Last 5	12:20:44	4800.05	21.39	13.23	4688.54	1.53	20.46	3.71	9.84
Variance 0			0.08	0.01	-63.98			0.07	-1.47
Variance 1			0.10	0.01	-63.30			-0.04	-1.09
Variance 2			0.07	0.03	-37.42			-0.05	-1.22

Notes

1100 start purging at 100mL/min; 1155 increase purge rate to 100mL/min; 1220 all parameters stable; 1225 sampled at 200mL/min

Grab Samples

MW-305D-20180227-01

Sampled at 1225

Product Name: Low-Flow System

Date: 2018-02-21 10:18:28

Project Information:		Pump Information:	
Operator Name	Markevious Thomas	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	.17 in
Site Name	AGL - Macon	Tubing Length	50 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	463072		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	41 ft

Well Information:		Pumping Information:	
Well ID	MW-306D	Final Pumping Rate	100 mL/min
Well diameter	6 in	Total System Volume	0.3131711 L
Well Total Depth	51 ft	Calculated Sample Rate	300 sec
Screen Length	18.5 ft	Stabilization Drawdown	4.8 in
Depth to Water	6.44 ft	Total Volume Pumped	3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	09:50:12	600.02	21.12	11.48	1416.56	1.85	6.61	6.48	132.32
Last 5	09:55:12	900.02	21.10	11.54	1418.39	1.47	6.67	6.47	128.36
Last 5	10:00:12	1200.02	21.12	11.56	1418.22	1.42	6.77	6.46	124.69
Last 5	10:05:12	1500.02	21.18	11.55	1418.22	1.07	6.84	6.47	121.58
Last 5	10:10:12	1800.02	21.19	11.58	1416.35	1.61	6.93	6.45	118.46
Variance 0			0.02	0.02	-0.17			-0.00	-3.66
Variance 1			0.06	-0.01	-0.01			0.01	-3.11
Variance 2			0.01	0.03	-1.87			-0.02	-3.12

Notes

0940 began purge at 100mL/min; 1010 all parameters stable; 1015 sampled at 100mL/min

Grab Samples

MW-306D-20180221-01

Sampled at 1015

DUP-1-201802210-01

Sampled at 1015

Product Name: Low-Flow System

Date: 2018-02-21 14:20:18

Project Information:		Pump Information:	
Operator Name	Markevious Thomas	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	.17 in
Site Name	AGL - Macon	Tubing Length	55 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	463072		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	46 ft

Well Information:		Pumping Information:	
Well ID	MW-307D	Final Pumping Rate	100 mL/min
Well diameter	6 in	Total System Volume	0.3354883 L
Well Total Depth	58 ft	Calculated Sample Rate	300 sec
Screen Length	24 ft	Stabilization Drawdown	14.4 in
Depth to Water	8.30 ft	Total Volume Pumped	7.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 100
Last 5	13:50:03	3299.86	23.97	12.73	8611.28	0.99	9.21	0.57	-37.75
Last 5	13:55:03	3599.86	23.93	12.75	8608.70	0.33	9.30	0.56	-21.05
Last 5	14:00:03	3899.87	23.97	12.75	8627.49	0.41	9.37	0.55	-11.68
Last 5	14:05:03	4199.86	23.99	12.75	8636.60	0.40	9.46	0.55	-6.36
Last 5	14:10:03	4499.86	23.97	12.75	8615.69	0.95	9.56	0.54	-2.09
Variance 0			0.04	0.00	18.79			-0.01	9.37
Variance 1			0.02	0.00	9.10			-0.00	5.32
Variance 2			-0.02	-0.00	-20.91			-0.01	4.27

Notes

1255 start purging at 100mL/min; 1410 all parameters stable; 1415 sampled at 100mL/min

Grab Samples

MW-307D-20180221-01

Sampled at 1415

Product Name: Low-Flow System

Date: 2018-02-20 12:28:45

Project Information:		Pump Information:	
Operator Name	A. Ellis	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL Macon	Tubing Length	100 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	501336		
Turbidity Make/Model	Lamotte	Pump placement from TOC	90 ft

Well Information:		Pumping Information:	
Well ID	MW-308D	Final Pumping Rate	150 mL/min
Well diameter	4 in	Total System Volume	0.5363423 L
Well Total Depth	110 ft	Calculated Sample Rate	300 sec
Screen Length	38 ft	Stabilization Drawdown	10.56 in
Depth to Water	18.18 ft	Total Volume Pumped	6.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	12:03:19	1500.02	21.81	12.50	5186.32	11.90	18.86	5.00	158.57
Last 5	12:08:19	1800.02	21.77	12.51	5195.13	5.97	18.91	4.98	157.69
Last 5	12:13:19	2100.02	21.68	12.52	5180.48	6.34	18.96	4.99	155.80
Last 5	12:18:19	2400.02	21.63	12.52	5186.30	7.39	19.04	4.99	154.35
Last 5	12:23:20	2701.02	21.72	12.52	5136.07	5.40	19.06	4.97	153.12
Variance 0			-0.09	0.01	-14.65			0.02	-1.89
Variance 1			-0.04	0.01	5.81			-0.00	-1.45
Variance 2			0.09	0.00	-50.23			-0.02	-1.24

Notes

Purge time 1138/1223

Grab Samples

MW-308D-20180220-01

1223

Product Name: Low-Flow System

Date: 2018-02-22 10:43:43

Project Information:		Pump Information:	
Operator Name	E. Gant	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL - Macon	Tubing Length	24 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	449622		
Turbidity Make/Model	LaMotte 2020	Pump placement from TOC	10 ft

Well Information:		Pumping Information:	
Well ID	MW-400 DUP	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	3.197122 L
Well Total Depth	16 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0.15 in
Depth to Water	13.85 ft	Total Volume Pumped	2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	10:21:02	3899.94	21.20	5.18	825.27	1.89	14.05	0.57	137.31
Last 5	10:26:02	4199.94	21.28	5.19	820.17	5.24	14.05	0.42	137.47
Last 5	10:31:02	4499.86	21.29	5.19	815.18	1.39	14.05	0.53	137.18
Last 5	10:36:02	4799.86	21.28	5.19	813.59	1.48	14.05	0.57	137.75
Last 5	10:41:03	5100.86	21.46	5.20	833.30	1.76	--	0.46	138.38
Variance 0			0.01	0.01	-4.99			0.12	-0.29
Variance 1			-0.01	0.00	-1.59			0.04	0.57
Variance 2			0.18	0.00	19.71			-0.11	0.63

Notes

Started at 0920 ended and sample at 1040

Grab Samples

Product Name: Low-Flow System

Date: 2018-02-22 14:40:21

Project Information:		Pump Information:	
Operator Name	E. Gant	Pump Model/Type	Alexis Peristaltic
Company Name	ERM	Tubing Type	LDPE
Project Name	AGL Macon GW	Tubing Diameter	0.17 in
Site Name	AGL - Macon	Tubing Length	25 ft
Latitude	0º 0' 0"		
Longitude	0º 0' 0"		
Sonde SN	449622		
Turbidity Make/Model	LaMotte 2020	Pump placement from TOC	8 ft

Well Information:		Pumping Information:	
Well ID	MW-401	Final Pumping Rate	120 mL/min
Well diameter	1 in	Total System Volume	3.201586 L
Well Total Depth	16 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0.01 in
Depth to Water	12.7 ft	Total Volume Pumped	3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	14:15:14	1200.02	21.48	6.02	427.01	0.91	12.77	0.16	83.87
Last 5	14:20:14	1500.02	21.48	6.02	408.24	1.15	12.77	0.15	80.43
Last 5	14:25:14	1800.02	21.24	6.03	426.88	0.68	12.77	0.13	77.40
Last 5	14:30:14	2100.02	21.28	6.04	427.62	0.56	12.76	0.15	74.33
Last 5	14:35:14	2399.93	21.13	6.04	428.91	--	--	0.15	71.27
Variance 0			-0.24	0.01	18.63			-0.02	-3.02
Variance 1			0.04	0.01	0.74			0.02	-3.07
Variance 2			-0.15	0.00	1.29			-0.00	-3.06

Notes

Began at 1400 and sample at 1435

Grab Samples

APPENDIX E – CD ONLY

Laboratory Analytical Reports – February 2018

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 07, 2018

Adria Reimer
ERM-Southeast

3200 Windy Hill Rd
Atlanta GA 30339

RE: AGLC Macon

Dear Adria Reimer: Order No: 1802H80

Analytical Environmental Services, Inc. received 2 samples on 2/20/2018 7:50:00 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's accreditations are as follows:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.
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.

Sincerely,

Mirzeta Kararic

Mirzeta Kararic

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: 1802480

Date: 2/19/18 Page 1 of 1

COMPANY: ERM

ADDRESS: 3200 WINDY HILL RD SE ATLANTA, GA 30339

PHONE: (678) 486-2700

FAX: —

SAMPLED BY: AUBREY ELLIS

SIGNATURE: Aubrey Ellis

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	SVOCs	VOC	Dissolved gases	methane	total metals & mercury	total cyanide	Ferrous iron	sulfide	sulfate/nitrate					No # of Containers
	PRESERVATION (See codes)						NA	H+I	H+I	O	N+I	S+I	NA	S+I	S+I+NA					
1	MW-24D-20180219-01	2/19/18	12:18	X		GW	2	2	2	2	1	1	1	1	1					13
2	TB-1-20180219-01	2/19/18	—	X		W		2												2
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				

ANALYSIS REQUESTED

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

REMARKS

SH=Sodium hydrox
O=benzalkonium chloride
SH2=Sodium Hydroxt
ZN-ACETATE

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Aubrey Ellis	2/19/2018 1657	1: [illegible]	2/20/18 750
2:		2:	
3:		3:	

PROJECT INFORMATION

PROJECT NAME: AHL MACON

PROJECT #: 0366660

SITE ADDRESS: 137 MULBERRY ST. MACON GA

SEND REPORT TO: adrian.reimer@erm.com

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

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): GA

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

Client: ERM-Southeast
Project: AGLC Macon
Lab ID: 1802H80

Case Narrative

Ferrous Iron by SM3500Fe-B:

Method 3500Fe-B as listed in Standard Methods for the Examination of Water and Wastewater 22nd Edition is applicable for analyzing Ferrous Iron in the field. Sample was analyzed in the laboratory which is a deviation from the method.

PAH Analysis by Method 8270D-SIM:

Matrix spike and matrix spike duplicate analyses were not performed with Batch 256248 due to insufficient sample volume.

Analytical Environmental Services, Inc **Date:** 7-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-24D-20180219-01
Project Name:	AGLC Macon	**Collection Date:**	2/19/2018 12:18:00 PM
Lab ID:	1802H80-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256437	1	02/23/2018 14:57	NP
Carbon disulfide	BRL	5.0		ug/L	256437	1	02/23/2018 14:57	NP
Ethylbenzene	20	5.0		ug/L	256437	1	02/23/2018 14:57	NP
Toluene	BRL	5.0		ug/L	256437	1	02/23/2018 14:57	NP
Xylenes, Total	BRL	5.0		ug/L	256437	1	02/23/2018 14:57	NP
Surr: 4-Bromofluorobenzene	98	68-127		%REC	256437	1	02/23/2018 14:57	NP
Surr: Dibromofluoromethane	104	84.4-122		%REC	256437	1	02/23/2018 14:57	NP
Surr: Toluene-d8	104	80.1-116		%REC	256437	1	02/23/2018 14:57	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256492	1	02/26/2018 12:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	49	5.0		ug/L	256248	100	02/22/2018 18:50	YH
Acenaphthylene	BRL	1.0		ug/L	256248	1	02/22/2018 16:35	YH
Acenaphthene	6.3	0.50		ug/L	256248	1	02/22/2018 16:35	YH
Fluorene	1.00	0.10		ug/L	256248	1	02/22/2018 16:35	YH
Phenanthrene	0.65	0.050		ug/L	256248	1	02/22/2018 16:35	YH
Anthracene	0.22	0.050		ug/L	256248	1	02/22/2018 16:35	YH
Fluoranthene	BRL	0.10		ug/L	256248	1	02/22/2018 16:35	YH
Pyrene	0.11	0.050		ug/L	256248	1	02/22/2018 16:35	YH
Benz(a)anthracene	BRL	0.050		ug/L	256248	1	02/22/2018 16:35	YH
Chrysene	BRL	0.050		ug/L	256248	1	02/22/2018 16:35	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256248	1	02/22/2018 16:35	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256248	1	02/22/2018 16:35	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 16:35	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 16:35	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256248	1	02/22/2018 16:35	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256248	1	02/22/2018 16:35	YH
Surr: 4-Terphenyl-d14	101	59.9-128		%REC	256248	1	02/22/2018 16:35	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256272	1	02/23/2018 14:49	YH
2-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 14:49	YH
3,4-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 14:49	YH
Phenol	BRL	10		ug/L	256272	1	02/23/2018 14:49	YH
Surr: 2,4,6-Tribromophenol	68.6	51.4-138		%REC	256272	1	02/23/2018 14:49	YH
Surr: 2-Fluorobiphenyl	79.9	44.6-119		%REC	256272	1	02/23/2018 14:49	YH
Surr: 2-Fluorophenol	62.3	27.2-120		%REC	256272	1	02/23/2018 14:49	YH
Surr: 4-Terphenyl-d14	97.6	47.1-136		%REC	256272	1	02/23/2018 14:49	YH
Surr: Nitrobenzene-d5	81.1	40.7-119		%REC	256272	1	02/23/2018 14:49	YH

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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-24D-20180219-01
Project Name:	AGLC Macon	**Collection Date:**	2/19/2018 12:18:00 PM
Lab ID:	1802H80-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	53.4	18.1-120		%REC	256272	1	02/23/2018 14:49	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256312	1	02/23/2018 13:01	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363546	1	02/20/2018 10:03	MP
Sulfate	BRL	1.0		mg/L	R363546	1	02/20/2018 10:03	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	1300	40		ug/L	256247	10	02/22/2018 12:55	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	31.6	2.50		mg/L	R363906	25	02/20/2018 11:10	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	256494	1	02/26/2018 16:30	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256057	1	02/21/2018 19:44	IO
Arsenic	BRL	0.0500		mg/L	256057	1	02/21/2018 19:44	IO
Barium	2.97	0.0200		mg/L	256057	1	02/21/2018 19:44	IO
Beryllium	BRL	0.0100		mg/L	256057	1	02/21/2018 19:44	IO
Cadmium	BRL	0.0050		mg/L	256057	1	02/21/2018 19:44	IO
Chromium	BRL	0.0100		mg/L	256057	1	02/21/2018 19:44	IO
Copper	BRL	0.0100		mg/L	256057	1	02/21/2018 19:44	IO
Iron	33.7	1.00		mg/L	256057	10	02/26/2018 14:23	IO
Lead	BRL	0.0100		mg/L	256057	1	02/21/2018 19:44	IO
Nickel	BRL	0.0200		mg/L	256057	1	02/21/2018 19:44	IO
Zinc	BRL	0.0200		mg/L	256057	1	02/21/2018 19:44	IO

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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-1-20180219-01
Project Name:	AGLC Macon	**Collection Date:**	2/19/2018
Lab ID:	1802H80-002	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256437	1	02/23/2018 13:20	NP
Carbon disulfide	BRL	5.0		ug/L	256437	1	02/23/2018 13:20	NP
Ethylbenzene	BRL	5.0		ug/L	256437	1	02/23/2018 13:20	NP
Toluene	BRL	5.0		ug/L	256437	1	02/23/2018 13:20	NP
Xylenes, Total	BRL	5.0		ug/L	256437	1	02/23/2018 13:20	NP
Surr: 4-Bromofluorobenzene	97.4	68-127		%REC	256437	1	02/23/2018 13:20	NP
Surr: Dibromofluoromethane	106	84.4-122		%REC	256437	1	02/23/2018 13:20	NP
Surr: Toluene-d8	104	80.1-116		%REC	256437	1	02/23/2018 13:20	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

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

March 1, 2018

Mirzeta Kararic
Analytical Environmental Services, Inc.
3785 Presidential Parkway
Suite 111
Atlanta, GA 30340

RE: **1802H80**

Pace Workorder: 25729

Dear Mirzeta Kararic:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, February 22, 2018. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Ruth Welsh 03/01/2018
Ruth.Welsh@pacelabs.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email PAESfeedback@pacelabs.com.

Total Number of Pages 10

CERTIFICATE OF ANALYSIS

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water
Accreditor:	West Virginia Department of Environmental Protection, Division of Water and Waste Management
Accreditation ID:	395
Scope:	Non-Potable Water
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	State of Virginia
Accreditation ID:	460201
Scope:	Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

Pace Analytical Energy Services LLC
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SAMPLE SUMMARY

Workorder: 25729 1802H80

Lab ID	Sample ID	Matrix	Date Collected	Date Received
257290001	MW-24D-20180219-01	Water	2/19/2018 12:18	2/22/2018 11:30

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ANALYTICAL RESULTS

Workorder: 25729 1802H80

Lab ID: **257290001** Date Received: 2/22/2018 11:30 Matrix: Water

Sample ID: **MW-24D-20180219-01** Date Collected: 2/19/2018 12:18

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**160**	mg/l	5.0	0.32	1	2/24/2018 10:36	TD	n
Oxygen	**3.0**	mg/l	0.50	0.12	1	2/24/2018 10:36	TD	n
Nitrogen	**20**	mg/l	2.0	0.34	1	2/24/2018 10:36	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	2/24/2018 10:36	TD	n

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 25729 1802H80

DEFINITIONS/QUALIFIERS

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA

Workorder: 25729 1802H80

QC Batch: DISG/6676 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 257290001

METHOD BLANK: 53870

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Carbon Dioxide	mg/l	<5.0	5.0	n
Oxygen	mg/l	<0.50	0.50	n
Nitrogen	mg/l	<2.0	2.0	n
Carbon Monoxide	mg/l	<1.0	1.0	n

LABORATORY CONTROL SAMPLE & LCSD: 53872 53874

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Carbon Dioxide	mg/l	120	130	130	112	112	80-120	0.3	20	n
Oxygen	mg/l	11	11	11	93	93	80-120	0.024	20	n
Nitrogen	mg/l	140	130	130	92	93	80-120	0.16	20	n
Carbon Monoxide	mg/l	2	2.4	2.2	119	112	80-120	6.2	20	n

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 53875 53876 Original: 256700001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK											
Carbon Dioxide	mg/l	130	120	280	290	126	130	70-130	1.4	20	n
Oxygen	mg/l	1.3	11	10	10	80	79	70-130	1.8	20	n
Nitrogen	mg/l	7.2	140	120	120	83	83	70-130	0.29	20	n
Carbon Monoxide	mg/l	0	2	2.0	2.0	100	102	70-130	1.4	20	n

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 25729 1802H80

QUALITY CONTROL PARAMETER QUALIFIERS

n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

Pace Analytical Energy Services LLC
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Pittsburgh, PA 15238
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 25729 1802H80

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
257290001	MW-24D-20180219-01			AM20GAX	DISG/6676

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
AES
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

25729

CHAIN OF CUSTODY

Work Order: ______

Date: ______ Page ______ of ______

COMPANY: ✓

ADDRESS: ✓

PHONE:

EMAIL:

SAMPLED BY:

SIGNATURE:

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	ANALYSIS REQUESTED: O_2, N_2, CO, CO_2	REMARKS	Number of Containers
1	MW-24D-20180219-01	2/19/18	12:18	X		GW	X		
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

PRESERVATION (see codes)

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Andrena Stepler	2/21/2018 5:00pm	1. [signature] PACE	2-22-18 11:30
2.		2.	
3.		3.	

PROJECT INFORMATION

PROJECT NAME: 1802H80

PROJECT #:

SITE ADDRESS:

SEND REPORT TO: MKARAKIC@AESATLANTA.COM

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: ______ PO#: ______

RECEIPT

Total # of Containers

Turnaround Time (TAT) Request

- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush **(auth req.)**
- [ ] Other ______

STATE PROGRAM (if any): ______

E-mail? ☐ Fax? ☐

DATA PACKAGE: I ○ II ○ III ○ IV ○

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT: / / VIA:

IN: / / VIA:

client FedEx UPS US mail courier Greyhound

other: ______

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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

Cooler Receipt Form

Client Name: PAES Project: 1802H80 Lab Work Order: 25729

A. Shipping/Container Information (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other:_____ Air bill Present: (Yes) No

Tracking Number: 724931685771

Custody Seal on Cooler/Box Present: Yes (No) Seals Intact: Yes No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam Other:_____

Type of Ice: (Wet) Blue None Ice Intact: (Yes) Melted

Cooler Temperature: 1°C Radiation Screened: Yes (No) Chain of Custody Present: (Yes) No

Comments:_____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC			✓	
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected	✓			
Sufficient volume provided	✓			
PAES containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	
Headspace present?	✓			

Comments:_____

Cooler contents examined/received by: CY Date: 2.22.18

Project Manager Review: _____ Date: 2/22/18

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **ERM-Southeast** AES Work Order Number: **1802H80**

2. Carrier: FedEx ■ UPS ☐ USPS ☐ Client ☐ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	○	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	○	○		
5.	Custody seals intact on shipping container?	○	○	○		
6.	Temperature blanks present?	○	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	○	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	○	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	○	○	○		
10.	Sampler name and/or signature on COC?	○	○	○		
11.	Were all samples received within holding time?	○	○	○		
12.	TAT marked on the COC?	○	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 2.3 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). TD 2/20/18

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	○	○	○		
17.	Custody seals present on sample containers?	○	○	○		
18.	Custody seals intact on sample containers?	○	○	○		
19.	Do sample container labels match the COC?	○	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	○	○	○		
21.	Were all of the samples listed on the COC received?	○	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	○	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	○	○	○		
24.	Were samples received in appropriate containers?	○	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	○	○	○		
26.	Were trip blanks submitted?	○	○	○	listed on COC ■ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). MDP 2/20/18

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	○	○	○		
29.	Containers meet preservation guidelines?	○	○	○		
30.	Was pH adjusted at Sample Receipt?	○	○	○		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). MDP 2/20/18

Checklist 6.9.17 Rev 2

Locked

Client: ERM-Southeast
Project Name: AGLC Macon
Lab Order: 1802H80

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802H80-001A	MW-24D-20180219-01	2/19/2018 12:18:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/23/2018 11:42:00AM	02/23/2018
1802H80-001B	MW-24D-20180219-01	2/19/2018 12:18:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/21/2018 3:30:00PM	02/22/2018
1802H80-001B	MW-24D-20180219-01	2/19/2018 12:18:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/22/2018 10:00:00AM	02/23/2018
1802H80-001D	MW-24D-20180219-01	2/19/2018 12:18:00PM	Groundwater	GC Analysis of Gaseous Samples		2/22/2018 9:03:00AM	02/22/2018
1802H80-001E	MW-24D-20180219-01	2/19/2018 12:18:00PM	Groundwater	TOTAL METALS BY ICP		2/21/2018 9:15:00AM	02/21/2018
1802H80-001E	MW-24D-20180219-01	2/19/2018 12:18:00PM	Groundwater	TOTAL METALS BY ICP		2/21/2018 9:15:00AM	02/26/2018
1802H80-001E	MW-24D-20180219-01	2/19/2018 12:18:00PM	Groundwater	TOTAL MERCURY		2/22/2018 8:28:00PM	02/23/2018
1802H80-001F	MW-24D-20180219-01	2/19/2018 12:18:00PM	Groundwater	Cyanide		2/26/2018 3:40:00PM	02/26/2018
1802H80-001G	MW-24D-20180219-01	2/19/2018 12:18:00PM	Groundwater	Ferrous Iron			02/20/2018
1802H80-001H	MW-24D-20180219-01	2/19/2018 12:18:00PM	Groundwater	Sulfide by SW9030/9034		2/26/2018 11:10:00AM	02/26/2018
1802H80-001I	MW-24D-20180219-01	2/19/2018 12:18:00PM	Groundwater	ION SCAN			02/20/2018
1802H80-002A	TB-1-20180219-01	2/19/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		2/23/2018 11:42:00AM	02/23/2018

Client: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802H80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256057

Sample ID: **MB-256057** Client ID: Units: **mg/L** Prep Date: **02/20/2018** Run No: **363675**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010D** BatchID: **256057** Analysis Date: **02/21/2018** Seq No: **8035764**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	0.0200									
Arsenic	BRL	0.0500									
Barium	BRL	0.0200									
Beryllium	BRL	0.0100									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Copper	BRL	0.0100									
Iron	BRL	0.100									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Zinc	BRL	0.0200									

Sample ID: **LCS-256057** Client ID: Units: **mg/L** Prep Date: **02/20/2018** Run No: **363675**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010D** BatchID: **256057** Analysis Date: **02/21/2018** Seq No: **8035765**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	1.004	0.0200	1.000		100	80	120				
Arsenic	0.9932	0.0500	1.000		99.3	80	120				
Barium	0.9776	0.0200	1.000		97.8	80	120				
Beryllium	0.9777	0.0100	1.000		97.8	80	120				
Cadmium	0.9829	0.0050	1.000		98.3	80	120				
Chromium	0.9770	0.0100	1.000	0.002579	97.4	80	120				
Copper	0.9613	0.0100	1.000		96.1	80	120				
Iron	9.673	0.100	10.00		96.7	80	120				
Lead	0.9914	0.0100	1.000		99.1	80	120				
Nickel	0.9904	0.0200	1.000		99.0	80	120				
Zinc	0.9737	0.0200	1.000		97.4	80	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802H80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256057

Sample ID: **1802G32-040CMS** Client ID:
SampleType: **MS** TestCode: **METALS, TOTAL SW6010D**
Units: **mg/L** Prep Date: **02/20/2018** Run No: **363675**
BatchID: **256057** Analysis Date: **02/21/2018** Seq No: **8035769**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9846	0.0200	1.000		98.5	75	125				
Arsenic	0.9766	0.0500	1.000		97.7	75	125				
Barium	1.772	0.0200	1.000	0.8446	92.7	75	125				
Beryllium	0.9567	0.0100	1.000		95.7	75	125				
Cadmium	0.9628	0.0050	1.000		96.3	75	125				
Chromium	0.9567	0.0100	1.000	0.003843	95.3	75	125				
Copper	0.9416	0.0100	1.000		94.2	75	125				
Iron	9.632	0.100	10.00	0.1801	94.5	75	125				
Lead	0.9665	0.0100	1.000		96.6	75	125				
Nickel	0.9677	0.0200	1.000		96.8	75	125				
Zinc	0.9577	0.0200	1.000	0.01333	94.4	75	125				

Sample ID: **1802G32-040CMSD** Client ID:
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010D**
Units: **mg/L** Prep Date: **02/20/2018** Run No: **363675**
BatchID: **256057** Analysis Date: **02/21/2018** Seq No: **8035770**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	1.035	0.0200	1.000		103	75	125	0.9846	4.96	20	
Arsenic	1.019	0.0500	1.000		102	75	125	0.9766	4.28	20	
Barium	1.856	0.0200	1.000	0.8446	101	75	125	1.772	4.65	20	
Beryllium	0.9977	0.0100	1.000		99.8	75	125	0.9567	4.19	20	
Cadmium	1.007	0.0050	1.000		101	75	125	0.9628	4.48	20	
Chromium	0.9911	0.0100	1.000	0.003843	98.7	75	125	0.9567	3.53	20	
Copper	0.9857	0.0100	1.000		98.6	75	125	0.9416	4.58	20	
Iron	10.05	0.100	10.00	0.1801	98.7	75	125	9.632	4.24	20	
Lead	1.007	0.0100	1.000		101	75	125	0.9665	4.06	20	
Nickel	1.007	0.0200	1.000		101	75	125	0.9677	4.03	20	
Zinc	0.9934	0.0200	1.000	0.01333	98.0	75	125	0.9577	3.67	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802H80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256247

Sample ID: **MB-256247**	Client ID:				Units: **ug/L**		Prep Date: **02/22/2018**		Run No: **363708**
SampleType: **MBLK**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256247**		Analysis Date: **02/22/2018**		Seq No: **8036825**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	BRL	4.0									

Sample ID: **LCS-256247**	Client ID:				Units: **ug/L**		Prep Date: **02/22/2018**		Run No: **363708**
SampleType: **LCS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256247**		Analysis Date: **02/22/2018**		Seq No: **8036826**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	114.4	4.0	200.0		57.2	45.1	115				

Sample ID: **LCSD-256247**	Client ID:				Units: **ug/L**		Prep Date: **02/22/2018**		Run No: **363708**
SampleType: **LCSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256247**		Analysis Date: **02/22/2018**		Seq No: **8036827**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	102.0	4.0	200.0		51.0	45.1	115	114.4	11.5	20	

Sample ID: **1802J08-002DMS**	Client ID:				Units: **ug/L**		Prep Date: **02/22/2018**		Run No: **363708**
SampleType: **MS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256247**		Analysis Date: **02/22/2018**		Seq No: **8036836**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	101.4	4.0	200.0		50.7	42	115				

Sample ID: **1802J08-002DMSD**	Client ID:				Units: **ug/L**		Prep Date: **02/22/2018**		Run No: **363708**
SampleType: **MSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256247**		Analysis Date: **02/22/2018**		Seq No: **8036837**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	111.3	4.0	200.0		55.6	42	115	101.4	9.29	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802H80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256248

Sample ID: **MB-256248** Client ID: Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
SampleType: **MBLK** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037285**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	BRL	0.50									
Acenaphthylene	BRL	1.0									
Anthracene	BRL	0.050									
Benz(a)anthracene	BRL	0.050									
Benzo(a)pyrene	BRL	0.050									
Benzo(b)fluoranthene	BRL	0.10									
Benzo(g,h,i)perylene	BRL	0.10									
Benzo(k)fluoranthene	BRL	0.050									
Chrysene	BRL	0.050									
Dibenz(a,h)anthracene	BRL	0.10									
Fluoranthene	BRL	0.10									
Fluorene	BRL	0.10									
Indeno(1,2,3-cd)pyrene	BRL	0.050									
Naphthalene	BRL	0.50									
Phenanthrene	BRL	0.050									
Pyrene	BRL	0.050									
Surr: 4-Terphenyl-d14	2.265	0	2.000		113	59.9	128				

Sample ID: **LCS-256248** Client ID: Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037286**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	2.000	0.50	2.000		100.0	64.7	120				
Acenaphthylene	2.092	1.0	2.000		105	63.2	120				
Anthracene	2.018	0.050	2.000		101	69.3	125				
Benz(a)anthracene	2.343	0.050	2.000		117	71.1	141				
Benzo(a)pyrene	2.115	0.050	2.000		106	67.2	131				
Benzo(b)fluoranthene	2.239	0.10	2.000		112	66.1	134				

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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802H80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256248

Sample ID: **LCS-256248** Client ID: Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037286**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(g,h,i)perylene	1.418	0.10	2.000		70.9	66.1	128				
Benzo(k)fluoranthene	2.122	0.050	2.000		106	67.7	133				
Chrysene	2.383	0.050	2.000		119	71.3	137				
Dibenz(a,h)anthracene	1.498	0.10	2.000		74.9	59.7	125				
Fluoranthene	2.155	0.10	2.000		108	72.3	129				
Fluorene	2.028	0.10	2.000		101	69.2	120				
Indeno(1,2,3-cd)pyrene	1.547	0.050	2.000		77.4	66.4	127				
Naphthalene	1.849	0.50	2.000		92.5	56.8	120				
Phenanthrene	1.880	0.050	2.000		94.0	70.9	120				
Pyrene	2.353	0.050	2.000		118	68.4	138				
Surr: 4-Terphenyl-d14	2.438	0	2.000		122	59.9	128				

Sample ID: **LCSD-256248** Client ID: Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
SampleType: **LCSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037369**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	2.049	0.50	2.000		102	64.7	120	0	0	20	
Acenaphthylene	2.104	1.0	2.000		105	63.2	120	0	0	18.4	
Anthracene	2.027	0.050	2.000		101	69.3	125	0	0	20.5	
Benz(a)anthracene	2.290	0.050	2.000		115	71.1	141	0	0	18	
Benzo(a)pyrene	2.037	0.050	2.000		102	67.2	131	0	0	33.5	
Benzo(b)fluoranthene	2.146	0.10	2.000		107	66.1	134	0	0	18.4	
Benzo(g,h,i)perylene	1.447	0.10	2.000		72.3	66.1	128	0	0	21.8	
Benzo(k)fluoranthene	2.028	0.050	2.000		101	67.7	133	0	0	20	
Chrysene	2.298	0.050	2.000		115	71.3	137	0	0	18.4	
Dibenz(a,h)anthracene	1.478	0.10	2.000		73.9	59.7	125	0	0	20.6	
Fluoranthene	2.155	0.10	2.000		108	72.3	129	0	0	26.9	
Fluorene	2.055	0.10	2.000		103	69.2	120	0	0	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802H80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256248

Sample ID: **LCSD-256248** Client ID:
SampleType: **LCSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D**
Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037369**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Indeno(1,2,3-cd)pyrene	1.592	0.050	2.000		79.6	66.4	127	0	0	20.4	
Naphthalene	1.907	0.50	2.000		95.4	56.8	120	0	0	21	
Phenanthrene	1.892	0.050	2.000		94.6	70.9	120	0	0	20	
Pyrene	2.346	0.050	2.000		117	68.4	138	0	0	19	
Surr: 4-Terphenyl-d14	2.325	0	2.000		116	59.9	128	0	0	0	

Qualifiers:

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

Client: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802H80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256272

Sample ID: **MB-256272** Client ID: Units: **ug/L** Prep Date: **02/22/2018** Run No: **363790**
SampleType: **MBLK** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256272** Analysis Date: **02/23/2018** Seq No: **8039385**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,4-Dimethylphenol	BRL	10									
2-Methylphenol	BRL	10									
3,4-Methylphenol	BRL	10									
Phenol	BRL	10									
Surr: 2,4,6-Tribromophenol	67.87	0	100.0		67.9	51.4	138				
Surr: 2-Fluorobiphenyl	39.79	0	50.00		79.6	44.6	119				
Surr: 2-Fluorophenol	48.91	0	100.0		48.9	27.2	120				
Surr: 4-Terphenyl-d14	46.42	0	50.00		92.8	47.1	136				
Surr: Nitrobenzene-d5	42.91	0	50.00		85.8	40.7	119				
Surr: Phenol-d5	34.30	0	100.0		34.3	18.1	120				

Sample ID: **LCS-256272** Client ID: Units: **ug/L** Prep Date: **02/22/2018** Run No: **363790**
SampleType: **LCS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256272** Analysis Date: **02/23/2018** Seq No: **8039386**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	41.73	10	100.0		41.7	26.4	120				
Surr: 2,4,6-Tribromophenol	81.20	0	100.0		81.2	51.4	138				
Surr: 2-Fluorobiphenyl	47.04	0	50.00		94.1	44.6	119				
Surr: 2-Fluorophenol	57.93	0	100.0		57.9	27.2	120				
Surr: 4-Terphenyl-d14	54.47	0	50.00		109	47.1	136				
Surr: Nitrobenzene-d5	52.40	0	50.00		105	40.7	119				
Surr: Phenol-d5	41.37	0	100.0		41.4	18.1	120				

Sample ID: **1802J52-001BMS** Client ID: Units: **ug/L** Prep Date: **02/22/2018** Run No: **363790**
SampleType: **MS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256272** Analysis Date: **02/23/2018** Seq No: **8039636**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	55.61	10	100.0		55.6	31.5	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802H80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256272

Sample ID: **1802J52-001BMS** Client ID: Units: **ug/L** Prep Date: **02/22/2018** Run No: **363790**
SampleType: **MS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256272** Analysis Date: **02/23/2018** Seq No: **8039636**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 2,4,6-Tribromophenol	71.94	0	100.0		71.9	51.4	138				
Surr: 2-Fluorobiphenyl	41.67	0	50.00		83.3	44.6	119				
Surr: 2-Fluorophenol	67.30	0	100.0		67.3	27.2	120				
Surr: 4-Terphenyl-d14	48.68	0	50.00		97.4	47.1	136				
Surr: Nitrobenzene-d5	44.06	0	50.00		88.1	40.7	119				
Surr: Phenol-d5	56.76	0	100.0		56.8	18.1	120				

Sample ID: **1802J52-001BMSD** Client ID: Units: **ug/L** Prep Date: **02/22/2018** Run No: **363790**
SampleType: **MSD** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256272** Analysis Date: **02/23/2018** Seq No: **8039637**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	55.33	10	100.0		55.3	31.5	120	55.61	0.505	28.5	
Surr: 2,4,6-Tribromophenol	65.16	0	100.0		65.2	51.4	138	71.94	0	0	
Surr: 2-Fluorobiphenyl	39.75	0	50.00		79.5	44.6	119	41.67	0	0	
Surr: 2-Fluorophenol	64.97	0	100.0		65.0	27.2	120	67.30	0	0	
Surr: 4-Terphenyl-d14	45.81	0	50.00		91.6	47.1	136	48.68	0	0	
Surr: Nitrobenzene-d5	43.32	0	50.00		86.6	40.7	119	44.06	0	0	
Surr: Phenol-d5	55.64	0	100.0		55.6	18.1	120	56.76	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802H80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256312

Sample ID: **MB-256312**	Client ID:			Units: **mg/L**	Prep Date: **02/22/2018**	Run No: **363821**
SampleType: **MBLK**	TestCode: **Mercury, Total SW7470A**			BatchID: **256312**	Analysis Date: **02/23/2018**	Seq No: **8041126**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020									

Sample ID: **LCS-256312**	Client ID:			Units: **mg/L**	Prep Date: **02/22/2018**	Run No: **363821**
SampleType: **LCS**	TestCode: **Mercury, Total SW7470A**			BatchID: **256312**	Analysis Date: **02/23/2018**	Seq No: **8041127**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003989	0.00020	0.0040		99.7	80	120				

Sample ID: **1802F79-031BMS**	Client ID:			Units: **mg/L**	Prep Date: **02/22/2018**	Run No: **363821**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**			BatchID: **256312**	Analysis Date: **02/23/2018**	Seq No: **8041129**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003977	0.00020	0.0040		99.4	70	130				

Sample ID: **1802F79-032BMS**	Client ID:			Units: **mg/L**	Prep Date: **02/22/2018**	Run No: **363821**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**			BatchID: **256312**	Analysis Date: **02/23/2018**	Seq No: **8041132**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004537	0.00020	0.0040	0.0006071	98.2	70	130				

Sample ID: **1802F79-031BMSD**	Client ID:			Units: **mg/L**	Prep Date: **02/22/2018**	Run No: **363821**
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**			BatchID: **256312**	Analysis Date: **02/23/2018**	Seq No: **8041130**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003825	0.00020	0.0040		95.6	70	130	0.003977	3.88	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802H80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256437

Sample ID: **MB-256437**	Client ID:		Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363806**
SampleType: **MBLK**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **256437**	Analysis Date: **02/23/2018**	Seq No: **8041568**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	5.0									
Carbon disulfide	BRL	5.0									
Ethylbenzene	BRL	5.0									
Toluene	BRL	5.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	48.87	0	50.00		97.7	68	127				
Surr: Dibromofluoromethane	53.88	0	50.00		108	84.4	122				
Surr: Toluene-d8	52.64	0	50.00		105	80.1	116				

Sample ID: **LCS-256437**	Client ID:		Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363806**
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **256437**	Analysis Date: **02/23/2018**	Seq No: **8041567**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	39.54	5.0	50.00		79.1	73.7	126				
Toluene	39.86	5.0	50.00		79.7	76.8	125				
Surr: 4-Bromofluorobenzene	48.97	0	50.00		97.9	68	127				
Surr: Dibromofluoromethane	52.50	0	50.00		105	84.4	122				
Surr: Toluene-d8	50.96	0	50.00		102	80.1	116				

Sample ID: **1802H80-001AMS**	Client ID: **MW-24D-20180219-01**		Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363806**
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **256437**	Analysis Date: **02/23/2018**	Seq No: **8041574**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	58.11	5.0	50.00	4.900	106	66.1	137				
Toluene	54.56	5.0	50.00		109	63.8	141				
Surr: 4-Bromofluorobenzene	48.40	0	50.00		96.8	68	127				
Surr: Dibromofluoromethane	51.55	0	50.00		103	84.4	122				
Surr: Toluene-d8	51.30	0	50.00		103	80.1	116				

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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802H80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256437

Sample ID: **1802H80-001AMSD** Client ID: **MW-24D-20180219-01** Units: **ug/L** Prep Date: **02/23/2018** Run No: **363806**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256437** Analysis Date: **02/23/2018** Seq No: **8041576**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	58.30	5.0	50.00	4.900	107	66.1	137	58.11	0.326	20	
Toluene	55.64	5.0	50.00		111	63.8	141	54.56	1.96	20	
Surr: 4-Bromofluorobenzene	48.53	0	50.00		97.1	68	127	48.40	0	0	
Surr: Dibromofluoromethane	51.55	0	50.00		103	84.4	122	51.55	0	0	
Surr: Toluene-d8	51.78	0	50.00		104	80.1	116	51.30	0	0	

Client: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802H80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256492

Sample ID: **MB-256492**	Client ID:			Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **363957**
SampleType: **MBLK**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **256492**	Analysis Date: **02/26/2018**	Seq No: **8043250**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	2.00									

Sample ID: **LCS-256492**	Client ID:			Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **363957**
SampleType: **LCS**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **256492**	Analysis Date: **02/26/2018**	Seq No: **8043251**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	372.0	2.00	372.0		100	70	130				

Sample ID: **1802K30-002HMS**	Client ID:			Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **363957**
SampleType: **MS**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **256492**	Analysis Date: **02/26/2018**	Seq No: **8043288**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	18.00	2.00	18.60		96.8	62.8	125				

Sample ID: **1802K30-002HMSD**	Client ID:			Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **363957**
SampleType: **MSD**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **256492**	Analysis Date: **02/26/2018**	Seq No: **8043290**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	18.40	2.00	18.60		98.9	62.8	125	18.00	2.20	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802H80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256494

Sample ID: **MB-256494**	Client ID:				Units: **mg/L**		Prep Date: **02/26/2018**		Run No: **363959**
SampleType: **MBLK**	TestCode: **Cyanide SW9014**				BatchID: **256494**		Analysis Date: **02/26/2018**		Seq No: **8043349**

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

Sample ID: **LCS-256494**	Client ID:				Units: **mg/L**		Prep Date: **02/26/2018**		Run No: **363959**
SampleType: **LCS**	TestCode: **Cyanide SW9014**				BatchID: **256494**		Analysis Date: **02/26/2018**		Seq No: **8043350**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2460	0.010	0.2500		98.4	85	115				

Sample ID: **1802K30-002FMS**	Client ID:				Units: **mg/L**		Prep Date: **02/26/2018**		Run No: **363959**
SampleType: **MS**	TestCode: **Cyanide SW9014**				BatchID: **256494**		Analysis Date: **02/26/2018**		Seq No: **8043368**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2520	0.010	0.2500		101	70	130				

Sample ID: **1802K30-002FMSD**	Client ID:				Units: **mg/L**		Prep Date: **02/26/2018**		Run No: **363959**
SampleType: **MSD**	TestCode: **Cyanide SW9014**				BatchID: **256494**		Analysis Date: **02/26/2018**		Seq No: **8043369**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2550	0.010	0.2500		102	70	130	0.2520	1.18	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802H80

ANALYTICAL QC SUMMARY REPORT

BatchID: R363546

Sample ID: **MB-R363546**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363546**	
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**				BatchID: **R363546**		Analysis Date: **02/20/2018**		Seq No: **8032776**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R363546**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363546**	
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**				BatchID: **R363546**		Analysis Date: **02/20/2018**		Seq No: **8032777**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.707	0.25	5.000		94.1	90	110				
Sulfate	23.71	1.0	25.00		94.9	90	110				

Sample ID: **1802I48-002BMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363546**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R363546**		Analysis Date: **02/20/2018**		Seq No: **8032780**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	52.17	2.5	50.00	4.658	95.0	90	110				
Sulfate	274.8	10	250.0	30.64	97.7	90	110				

Sample ID: **1802I48-002BMSD**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363546**	
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**				BatchID: **R363546**		Analysis Date: **02/20/2018**		Seq No: **8032781**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	52.55	2.5	50.00	4.658	95.8	90	110	52.17	0.709	20	
Sulfate	263.8	10	250.0	30.64	93.3	90	110	274.8	4.10	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802H80

ANALYTICAL QC SUMMARY REPORT

BatchID: R363906

Sample ID: **MB-R363906**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363906**	
SampleType: **MBLK**	TestCode: **Ferrous Iron**					BatchID: **R363906**		Analysis Date: **02/20/2018**		Seq No: **8042016**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R363906**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363906**	
SampleType: **LCS**	TestCode: **Ferrous Iron**					BatchID: **R363906**		Analysis Date: **02/20/2018**		Seq No: **8042017**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5000	0.100	0.5000		100	85	115				

Sample ID: **1802H80-001GMS**	Client ID: **MW-24D-20180219-01**					Units: **mg/L**		Prep Date:		Run No: **363906**	
SampleType: **MS**	TestCode: **Ferrous Iron**					BatchID: **R363906**		Analysis Date: **02/20/2018**		Seq No: **8042033**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	41.78	2.50	12.50	31.58	81.6	80	120				

Sample ID: **1802H80-001GMSD**	Client ID: **MW-24D-20180219-01**					Units: **mg/L**		Prep Date:		Run No: **363906**	
SampleType: **MSD**	TestCode: **Ferrous Iron**					BatchID: **R363906**		Analysis Date: **02/20/2018**		Seq No: **8042034**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	43.62	2.50	12.50	31.58	96.4	80	120	41.78	4.33	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.

March 05, 2018

Adria Reimer
ERM-Southeast

3200 Windy Hill Rd
Atlanta GA 30339

RE: AGL Macon

Dear Adria Reimer: Order No: 1802J08

Analytical Environmental Services, Inc. received 15 samples on 2/21/2018 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's accreditations are as follows:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.
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.

Sincerely,

Mirzeta Kararic

Mirzeta Kararic

Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1802J08

Date: 2/20/18 Page 1 of 2

COMPANY: ERM

ADDRESS: 3200 Windy Hill Rd SE Suite 1500W Atlanta, GA 30339

PHONE: (678) 486-2700

EMAIL:

SAMPLED BY: T. Pagan, A. Shoultits, E. Gent, M. Tjoner, A. Ellis, H. Burch

SIGNATURE:

ANALYSIS REQUESTED: 8260B VOL; SVOCs; Dissolved Gases; Methane; Total Metals + Mercury; Total Cyanide; Ferrous Iron; Sulfide; Sulfate/nitrate

PRESERVATION (see codes): H+I; I; H+I; O; N+I; SH; I; ZN; H+I

#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX	8260B VOL	SVOCs	Dissolved Gases	Methane	Total Metals + Mercury	Total Cyanide	Ferrous Iron	Sulfide	Sulfate/nitrate	REMARKS	Number of Containers
1	MW-27D-20180220-01	2/20/18	11:30	X		GW	X	X	X	X	X	X	X	X	X	SH = Sodium Hydrox	13
2	AMW-13-20180220-01	"	11:24													O = benzalkonium	13
3	MW-26-20180220-01	"	12:10													Chloride	13
4	AMW-11-20180220-01	"	12:09													SH2 = Sodium Hyrox	13
5	MW-26D-20180220-01	"	13:50													ZN = Acetate	13
6	AMW-12-20180220-01	"	15:01														13
7	MW-270D-20180220-01	"	13:50													*5 total Coolers	13
8	MW-23D-20180220-01	"	13:55														13
9	MW-108D-20180220-01	"	15:14														13
10	MW-308D-20180220-01	"	16:23			GW	X	X	X	X	X	X	X	X	X		13
11	TB-1-20180220-01	"	—			W											2
12	TB-3-20180220-01	"	—														2
13	TB-4-20180220-01	"	—														2
14	TB-5-20180220-01	"	—	X		W											2

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. [signature]	2/20/18 1716	1. [signature]	2/21/18 745
2.		2.	
3.		3.	

PROJECT INFORMATION

PROJECT NAME: AGL Macon

PROJECT #: 0366620

SITE ADDRESS: 137 Mulberry St. Macon, GA

SEND REPORT TO: adrian.lzimple@erm.com

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers: 138

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

STATE PROGRAM (if any): ______

E-mail? ☐ Fax? ☐

DATA PACKAGE: I ○ II ○ III ○ IV ○

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

SPECIAL INSTRUCTIONS/COMMENTS: 5 total Coolers

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client (FedEx) UPS US mail courier Greyhound
other: ______

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 180200

Date: 1/20/18 Page 1 of 1

COMPANY:	ADDRESS:
ERM	3300 Windy Hill Rd Suite 1500 W Atlanta, GA 30339
PHONE: (678) 486-2700	EMAIL:
SAMPLED BY: —	SIGNATURE:

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)	REMARKS	Number of Containers
1	TB-6-20180220-01	1/20/18	—	X		W	X		
2	~~MW-23-20180220-01~~								
3	~~MW-23D-20180220-01~~								
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

ANALYSIS REQUESTED: BTEX VOC; Sulfide; Sulfate | Nitrate; Dissolved Gases; Methane; Total Metals+ Mercury; Total Cyanide; Ferrous Iron

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

REMARKS:
5 Total Coolers #
SH = Sodium Hydroxide
O = benzalkonium Chloride
SH2 = Sodium Hydroxide
ZN = Acetate

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1.	1/19/18 1716	1.	2/21/18 745
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS: 5 Total Coolers

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client FedEx UPS US mail courier Greyhound
other: _____

PROJECT INFORMATION
PROJECT NAME: ABL Macon
PROJECT #: 03L6SD
SITE ADDRESS: 137 Mulberry St. Macon, GA
SEND REPORT TO: alicia.reimer@erm.com
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers: 1

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

STATE PROGRAM (if any): _____
E-mail? ☐ Fax? ☐
DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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

Client: ERM-Southeast
Project: AGL Macon
Lab ID: 1802J08

Case Narrative

Ferrous Iron by SM3500Fe-B:

Method 3500Fe-B as listed in Standard Methods for the Examination of Water and Wastewater 22nd Edition is applicable for analyzing Ferrous Iron in the field. Samples were analyzed in the laboratory which is a deviation from the method.

PAH Analysis by Method 8270D-SIM:

Matrix spike and matrix spike duplicate analyses were not performed with Batch 256248 due to insufficient sample volume.

Ion Scan Analysis by Method 9056A:

Due to sample matrix, sample 1802J08-010I required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc **Date:** 5-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-27D-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018 11:30:00 AM
Lab ID:	1802J08-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256454	1	02/24/2018 18:08	NP
Carbon disulfide	BRL	5.0		ug/L	256454	1	02/24/2018 18:08	NP
Ethylbenzene	BRL	5.0		ug/L	256454	1	02/24/2018 18:08	NP
Toluene	BRL	5.0		ug/L	256454	1	02/24/2018 18:08	NP
Xylenes, Total	BRL	5.0		ug/L	256454	1	02/24/2018 18:08	NP
Surr: 4-Bromofluorobenzene	95.8	68-127		%REC	256454	1	02/24/2018 18:08	NP
Surr: Dibromofluoromethane	104	84.4-122		%REC	256454	1	02/24/2018 18:08	NP
Surr: Toluene-d8	106	80.1-116		%REC	256454	1	02/24/2018 18:08	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256492	1	02/26/2018 12:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256248	1	02/22/2018 17:02	YH
Acenaphthylene	BRL	1.0		ug/L	256248	1	02/22/2018 17:02	YH
Acenaphthene	BRL	0.50		ug/L	256248	1	02/22/2018 17:02	YH
Fluorene	BRL	0.10		ug/L	256248	1	02/22/2018 17:02	YH
Phenanthrene	BRL	0.050		ug/L	256248	1	02/22/2018 17:02	YH
Anthracene	BRL	0.050		ug/L	256248	1	02/22/2018 17:02	YH
Fluoranthene	BRL	0.10		ug/L	256248	1	02/22/2018 17:02	YH
Pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 17:02	YH
Benz(a)anthracene	BRL	0.050		ug/L	256248	1	02/22/2018 17:02	YH
Chrysene	BRL	0.050		ug/L	256248	1	02/22/2018 17:02	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256248	1	02/22/2018 17:02	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256248	1	02/22/2018 17:02	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 17:02	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 17:02	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256248	1	02/22/2018 17:02	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256248	1	02/22/2018 17:02	YH
Surr: 4-Terphenyl-d14	117	59.9-128		%REC	256248	1	02/22/2018 17:02	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256272	1	02/23/2018 15:17	YH
2-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 15:17	YH
3,4-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 15:17	YH
Phenol	BRL	10		ug/L	256272	1	02/23/2018 15:17	YH
Surr: 2,4,6-Tribromophenol	54.4	51.4-138		%REC	256272	1	02/23/2018 15:17	YH
Surr: 2-Fluorobiphenyl	60	44.6-119		%REC	256272	1	02/23/2018 15:17	YH
Surr: 2-Fluorophenol	47.4	27.2-120		%REC	256272	1	02/23/2018 15:17	YH
Surr: 4-Terphenyl-d14	73	47.1-136		%REC	256272	1	02/23/2018 15:17	YH
Surr: Nitrobenzene-d5	60.9	40.7-119		%REC	256272	1	02/23/2018 15:17	YH

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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-27D-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018 11:30:00 AM
Lab ID:	1802J08-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	40.3	18.1-120		%REC	256272	1	02/23/2018 15:17	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256440	1	02/26/2018 16:54	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363674	1	02/21/2018 11:12	MP
Sulfate	3.3	1.0		mg/L	R363674	1	02/21/2018 11:12	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	12	4.0		ug/L	256247	1	02/22/2018 10:33	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	1.34	0.100		mg/L	R363906	1	02/21/2018 09:50	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	256494	1	02/26/2018 16:30	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256299	1	02/27/2018 15:52	JR
Arsenic	BRL	0.0500		mg/L	256299	1	02/27/2018 15:52	JR
Barium	0.965	0.0200		mg/L	256299	1	02/27/2018 15:52	JR
Beryllium	BRL	0.0100		mg/L	256299	1	02/27/2018 15:52	JR
Cadmium	BRL	0.0050		mg/L	256299	1	02/27/2018 15:52	JR
Chromium	BRL	0.0100		mg/L	256299	1	02/27/2018 15:52	JR
Copper	BRL	0.0100		mg/L	256299	1	02/27/2018 15:52	JR
Iron	1.37	0.100		mg/L	256299	1	02/27/2018 15:52	JR
Lead	BRL	0.0100		mg/L	256299	1	02/27/2018 15:52	JR
Nickel	0.0302	0.0200		mg/L	256299	1	02/27/2018 15:52	JR
Zinc	BRL	0.0200		mg/L	256299	1	02/27/2018 15:52	JR

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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	AMW-13-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018 11:24:00 AM
Lab ID:	1802J08-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256454	1	02/24/2018 19:20	NP
Carbon disulfide	BRL	5.0		ug/L	256454	1	02/24/2018 19:20	NP
Ethylbenzene	BRL	5.0		ug/L	256454	1	02/24/2018 19:20	NP
Toluene	BRL	5.0		ug/L	256454	1	02/24/2018 19:20	NP
Xylenes, Total	BRL	5.0		ug/L	256454	1	02/24/2018 19:20	NP
Surr: 4-Bromofluorobenzene	93.8	68-127		%REC	256454	1	02/24/2018 19:20	NP
Surr: Dibromofluoromethane	103	84.4-122		%REC	256454	1	02/24/2018 19:20	NP
Surr: Toluene-d8	103	80.1-116		%REC	256454	1	02/24/2018 19:20	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256492	1	02/26/2018 12:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256248	1	02/22/2018 17:29	YH
Acenaphthylene	BRL	1.0		ug/L	256248	1	02/22/2018 17:29	YH
Acenaphthene	BRL	0.50		ug/L	256248	1	02/22/2018 17:29	YH
Fluorene	BRL	0.10		ug/L	256248	1	02/22/2018 17:29	YH
Phenanthrene	BRL	0.050		ug/L	256248	1	02/22/2018 17:29	YH
Anthracene	BRL	0.050		ug/L	256248	1	02/22/2018 17:29	YH
Fluoranthene	BRL	0.10		ug/L	256248	1	02/22/2018 17:29	YH
Pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 17:29	YH
Benz(a)anthracene	BRL	0.050		ug/L	256248	1	02/22/2018 17:29	YH
Chrysene	BRL	0.050		ug/L	256248	1	02/22/2018 17:29	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256248	1	02/22/2018 17:29	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256248	1	02/22/2018 17:29	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 17:29	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 17:29	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256248	1	02/22/2018 17:29	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256248	1	02/22/2018 17:29	YH
Surr: 4-Terphenyl-d14	112	59.9-128		%REC	256248	1	02/22/2018 17:29	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256272	1	02/23/2018 16:39	YH
2-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 16:39	YH
3,4-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 16:39	YH
Phenol	BRL	10		ug/L	256272	1	02/23/2018 16:39	YH
Surr: 2,4,6-Tribromophenol	66.3	51.4-138		%REC	256272	1	02/23/2018 16:39	YH
Surr: 2-Fluorobiphenyl	77.3	44.6-119		%REC	256272	1	02/23/2018 16:39	YH
Surr: 2-Fluorophenol	56.1	27.2-120		%REC	256272	1	02/23/2018 16:39	YH
Surr: 4-Terphenyl-d14	92.8	47.1-136		%REC	256272	1	02/23/2018 16:39	YH
Surr: Nitrobenzene-d5	81.5	40.7-119		%REC	256272	1	02/23/2018 16:39	YH

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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	AMW-13-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018 11:24:00 AM
Lab ID:	1802J08-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	48.4	18.1-120		%REC	256272	1	02/23/2018 16:39	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256440	1	02/26/2018 17:06	AS
ION SCAN SW9056A								
Nitrate	0.65	0.25		mg/L	R363674	1	02/21/2018 11:27	MP
Sulfate	84	1.0		mg/L	R363674	1	02/21/2018 11:27	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	BRL	4.0		ug/L	256247	1	02/22/2018 10:39	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363906	1	02/21/2018 09:50	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	256494	1	02/26/2018 16:30	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256299	1	02/27/2018 16:02	JR
Arsenic	BRL	0.0500		mg/L	256299	1	02/27/2018 16:02	JR
Barium	0.0723	0.0200		mg/L	256299	1	02/27/2018 16:02	JR
Beryllium	BRL	0.0100		mg/L	256299	1	02/27/2018 16:02	JR
Cadmium	BRL	0.0050		mg/L	256299	1	02/27/2018 16:02	JR
Chromium	BRL	0.0100		mg/L	256299	1	02/27/2018 16:02	JR
Copper	BRL	0.0100		mg/L	256299	1	02/27/2018 16:02	JR
Iron	BRL	0.100		mg/L	256299	1	02/27/2018 16:02	JR
Lead	BRL	0.0100		mg/L	256299	1	02/27/2018 16:02	JR
Nickel	BRL	0.0200		mg/L	256299	1	02/27/2018 16:02	JR
Zinc	0.0344	0.0200		mg/L	256299	1	02/27/2018 16:02	JR

Qualifiers:

- * Value exceeds maximum contaminant level
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- > 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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-26-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018 12:10:00 PM
Lab ID:	1802J08-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256454	1	02/24/2018 19:44	NP
Carbon disulfide	BRL	5.0		ug/L	256454	1	02/24/2018 19:44	NP
Ethylbenzene	BRL	5.0		ug/L	256454	1	02/24/2018 19:44	NP
Toluene	BRL	5.0		ug/L	256454	1	02/24/2018 19:44	NP
Xylenes, Total	BRL	5.0		ug/L	256454	1	02/24/2018 19:44	NP
Surr: 4-Bromofluorobenzene	95	68-127		%REC	256454	1	02/24/2018 19:44	NP
Surr: Dibromofluoromethane	104	84.4-122		%REC	256454	1	02/24/2018 19:44	NP
Surr: Toluene-d8	107	80.1-116		%REC	256454	1	02/24/2018 19:44	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256492	1	02/26/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256248	1	02/22/2018 17:55	YH
Acenaphthylene	BRL	1.0		ug/L	256248	1	02/22/2018 17:55	YH
Acenaphthene	BRL	0.50		ug/L	256248	1	02/22/2018 17:55	YH
Fluorene	BRL	0.10		ug/L	256248	1	02/22/2018 17:55	YH
Phenanthrene	BRL	0.050		ug/L	256248	1	02/22/2018 17:55	YH
Anthracene	BRL	0.050		ug/L	256248	1	02/22/2018 17:55	YH
Fluoranthene	BRL	0.10		ug/L	256248	1	02/22/2018 17:55	YH
Pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 17:55	YH
Benz(a)anthracene	BRL	0.050		ug/L	256248	1	02/22/2018 17:55	YH
Chrysene	BRL	0.050		ug/L	256248	1	02/22/2018 17:55	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256248	1	02/22/2018 17:55	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256248	1	02/22/2018 17:55	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 17:55	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 17:55	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256248	1	02/22/2018 17:55	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256248	1	02/22/2018 17:55	YH
Surr: 4-Terphenyl-d14	117	59.9-128		%REC	256248	1	02/22/2018 17:55	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256272	1	02/23/2018 17:07	YH
2-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 17:07	YH
3,4-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 17:07	YH
Phenol	BRL	10		ug/L	256272	1	02/23/2018 17:07	YH
Surr: 2,4,6-Tribromophenol	68.1	51.4-138		%REC	256272	1	02/23/2018 17:07	YH
Surr: 2-Fluorobiphenyl	76.8	44.6-119		%REC	256272	1	02/23/2018 17:07	YH
Surr: 2-Fluorophenol	56.9	27.2-120		%REC	256272	1	02/23/2018 17:07	YH
Surr: 4-Terphenyl-d14	89.1	47.1-136		%REC	256272	1	02/23/2018 17:07	YH
Surr: Nitrobenzene-d5	80.3	40.7-119		%REC	256272	1	02/23/2018 17:07	YH

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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-26-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018 12:10:00 PM
Lab ID:	1802J08-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	48.5	18.1-120		%REC	256272	1	02/23/2018 17:07	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256440	1	02/26/2018 18:13	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363674	1	02/21/2018 11:41	MP
Sulfate	71	1.0		mg/L	R363674	1	02/21/2018 11:41	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	43	4.0		ug/L	256247	1	02/22/2018 11:03	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	14.9	5.00		mg/L	R363906	50	02/21/2018 09:50	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	256494	1	02/26/2018 16:30	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256299	1	02/27/2018 16:05	JR
Arsenic	BRL	0.0500		mg/L	256299	1	02/27/2018 16:05	JR
Barium	0.0632	0.0200		mg/L	256299	1	02/27/2018 16:05	JR
Beryllium	BRL	0.0100		mg/L	256299	1	02/27/2018 16:05	JR
Cadmium	BRL	0.0050		mg/L	256299	1	02/27/2018 16:05	JR
Chromium	BRL	0.0100		mg/L	256299	1	02/27/2018 16:05	JR
Copper	BRL	0.0100		mg/L	256299	1	02/27/2018 16:05	JR
Iron	16.4	0.100		mg/L	256299	1	02/28/2018 14:59	JR
Lead	BRL	0.0100		mg/L	256299	1	02/27/2018 16:05	JR
Nickel	BRL	0.0200		mg/L	256299	1	02/27/2018 16:05	JR
Zinc	BRL	0.0200		mg/L	256299	1	02/27/2018 16:05	JR

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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	AMW-11-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018 12:09:00 PM
Lab ID:	1802J08-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256454	1	02/24/2018 20:09	NP
Carbon disulfide	BRL	5.0		ug/L	256454	1	02/24/2018 20:09	NP
Ethylbenzene	BRL	5.0		ug/L	256454	1	02/24/2018 20:09	NP
Toluene	BRL	5.0		ug/L	256454	1	02/24/2018 20:09	NP
Xylenes, Total	BRL	5.0		ug/L	256454	1	02/24/2018 20:09	NP
Surr: 4-Bromofluorobenzene	92.4	68-127		%REC	256454	1	02/24/2018 20:09	NP
Surr: Dibromofluoromethane	104	84.4-122		%REC	256454	1	02/24/2018 20:09	NP
Surr: Toluene-d8	106	80.1-116		%REC	256454	1	02/24/2018 20:09	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256492	1	02/26/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256248	1	02/22/2018 18:21	YH
Acenaphthylene	BRL	1.0		ug/L	256248	1	02/22/2018 18:21	YH
Acenaphthene	BRL	0.50		ug/L	256248	1	02/22/2018 18:21	YH
Fluorene	BRL	0.10		ug/L	256248	1	02/22/2018 18:21	YH
Phenanthrene	BRL	0.050		ug/L	256248	1	02/22/2018 18:21	YH
Anthracene	BRL	0.050		ug/L	256248	1	02/22/2018 18:21	YH
Fluoranthene	BRL	0.10		ug/L	256248	1	02/22/2018 18:21	YH
Pyrene	0.053	0.050		ug/L	256248	1	02/22/2018 18:21	YH
Benz(a)anthracene	BRL	0.050		ug/L	256248	1	02/22/2018 18:21	YH
Chrysene	BRL	0.050		ug/L	256248	1	02/22/2018 18:21	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256248	1	02/22/2018 18:21	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256248	1	02/22/2018 18:21	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 18:21	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 18:21	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256248	1	02/22/2018 18:21	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256248	1	02/22/2018 18:21	YH
Surr: 4-Terphenyl-d14	111	59.9-128		%REC	256248	1	02/22/2018 18:21	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256272	1	02/23/2018 17:35	YH
2-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 17:35	YH
3,4-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 17:35	YH
Phenol	BRL	10		ug/L	256272	1	02/23/2018 17:35	YH
Surr: 2,4,6-Tribromophenol	67.2	51.4-138		%REC	256272	1	02/23/2018 17:35	YH
Surr: 2-Fluorobiphenyl	74.4	44.6-119		%REC	256272	1	02/23/2018 17:35	YH
Surr: 2-Fluorophenol	56.5	27.2-120		%REC	256272	1	02/23/2018 17:35	YH
Surr: 4-Terphenyl-d14	90.7	47.1-136		%REC	256272	1	02/23/2018 17:35	YH
Surr: Nitrobenzene-d5	75.2	40.7-119		%REC	256272	1	02/23/2018 17:35	YH

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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	AMW-11-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018 12:09:00 PM
Lab ID:	1802J08-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	47.6	18.1-120		%REC	256272	1	02/23/2018 17:35	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256440	1	02/26/2018 18:17	AS
ION SCAN SW9056A								
Nitrate	8.9	0.25		mg/L	R363674	1	02/21/2018 11:56	MP
Sulfate	93	1.0		mg/L	R363674	1	02/21/2018 11:56	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	BRL	4.0		ug/L	256247	1	02/22/2018 11:21	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363906	1	02/21/2018 09:50	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	0.012	0.010		mg/L	256494	1	02/26/2018 16:30	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256299	1	02/27/2018 16:08	JR
Arsenic	BRL	0.0500		mg/L	256299	1	02/27/2018 16:08	JR
Barium	0.0466	0.0200		mg/L	256299	1	02/27/2018 16:08	JR
Beryllium	BRL	0.0100		mg/L	256299	1	02/27/2018 16:08	JR
Cadmium	BRL	0.0050		mg/L	256299	1	02/27/2018 16:08	JR
Chromium	0.130	0.0100		mg/L	256299	1	02/27/2018 16:08	JR
Copper	BRL	0.0100		mg/L	256299	1	02/27/2018 16:08	JR
Iron	1.31	0.100		mg/L	256299	1	02/27/2018 16:08	JR
Lead	BRL	0.0100		mg/L	256299	1	02/27/2018 16:08	JR
Nickel	BRL	0.0200		mg/L	256299	1	02/27/2018 16:08	JR
Zinc	BRL	0.0200		mg/L	256299	1	02/27/2018 16:08	JR

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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-26D-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018 1:50:00 PM
Lab ID:	1802J08-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256454	1	02/24/2018 20:33	NP
Carbon disulfide	BRL	5.0		ug/L	256454	1	02/24/2018 20:33	NP
Ethylbenzene	BRL	5.0		ug/L	256454	1	02/24/2018 20:33	NP
Toluene	BRL	5.0		ug/L	256454	1	02/24/2018 20:33	NP
Xylenes, Total	BRL	5.0		ug/L	256454	1	02/24/2018 20:33	NP
Surr: 4-Bromofluorobenzene	94.4	68-127		%REC	256454	1	02/24/2018 20:33	NP
Surr: Dibromofluoromethane	101	84.4-122		%REC	256454	1	02/24/2018 20:33	NP
Surr: Toluene-d8	102	80.1-116		%REC	256454	1	02/24/2018 20:33	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256492	1	02/26/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256248	1	02/22/2018 18:47	YH
Acenaphthylene	BRL	1.0		ug/L	256248	1	02/22/2018 18:47	YH
Acenaphthene	BRL	0.50		ug/L	256248	1	02/22/2018 18:47	YH
Fluorene	BRL	0.10		ug/L	256248	1	02/22/2018 18:47	YH
Phenanthrene	BRL	0.050		ug/L	256248	1	02/22/2018 18:47	YH
Anthracene	BRL	0.050		ug/L	256248	1	02/22/2018 18:47	YH
Fluoranthene	BRL	0.10		ug/L	256248	1	02/22/2018 18:47	YH
Pyrene	0.11	0.050		ug/L	256248	1	02/22/2018 18:47	YH
Benz(a)anthracene	0.10	0.050		ug/L	256248	1	02/22/2018 18:47	YH
Chrysene	0.10	0.050		ug/L	256248	1	02/22/2018 18:47	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256248	1	02/22/2018 18:47	YH
Benzo(k)fluoranthene	0.054	0.050		ug/L	256248	1	02/22/2018 18:47	YH
Benzo(a)pyrene	0.054	0.050		ug/L	256248	1	02/22/2018 18:47	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 18:47	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256248	1	02/22/2018 18:47	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256248	1	02/22/2018 18:47	YH
Surr: 4-Terphenyl-d14	113	59.9-128		%REC	256248	1	02/22/2018 18:47	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256272	1	02/23/2018 18:03	YH
2-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 18:03	YH
3,4-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 18:03	YH
Phenol	BRL	10		ug/L	256272	1	02/23/2018 18:03	YH
Surr: 2,4,6-Tribromophenol	72.2	51.4-138		%REC	256272	1	02/23/2018 18:03	YH
Surr: 2-Fluorobiphenyl	88.3	44.6-119		%REC	256272	1	02/23/2018 18:03	YH
Surr: 2-Fluorophenol	70.3	27.2-120		%REC	256272	1	02/23/2018 18:03	YH
Surr: 4-Terphenyl-d14	94.5	47.1-136		%REC	256272	1	02/23/2018 18:03	YH
Surr: Nitrobenzene-d5	89.6	40.7-119		%REC	256272	1	02/23/2018 18:03	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- 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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-26D-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018 1:50:00 PM
Lab ID:	1802J08-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	60.7	18.1-120		%REC	256272	1	02/23/2018 18:03	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256440	1	02/26/2018 18:21	AS
ION SCAN SW9056A								
Nitrate	0.34	0.25		mg/L	R363674	1	02/21/2018 12:11	MP
Sulfate	30	1.0		mg/L	R363674	1	02/21/2018 12:11	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	BRL	4.0		ug/L	256247	1	02/22/2018 11:26	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363906	1	02/21/2018 09:50	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	256494	1	02/26/2018 16:30	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256299	1	02/27/2018 16:12	JR
Arsenic	BRL	0.0500		mg/L	256299	1	02/27/2018 16:12	JR
Barium	0.277	0.0200		mg/L	256299	1	02/27/2018 16:12	JR
Beryllium	BRL	0.0100		mg/L	256299	1	02/27/2018 16:12	JR
Cadmium	BRL	0.0050		mg/L	256299	1	02/27/2018 16:12	JR
Chromium	BRL	0.0100		mg/L	256299	1	02/27/2018 16:12	JR
Copper	BRL	0.0100		mg/L	256299	1	02/27/2018 16:12	JR
Iron	BRL	0.100		mg/L	256299	1	02/27/2018 16:12	JR
Lead	BRL	0.0100		mg/L	256299	1	02/27/2018 16:12	JR
Nickel	BRL	0.0200		mg/L	256299	1	02/27/2018 16:12	JR
Zinc	BRL	0.0200		mg/L	256299	1	02/27/2018 16:12	JR

Qualifiers:

- * Value exceeds maximum contaminant level
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- 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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	AMW-12-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018 3:01:00 PM
Lab ID:	1802J08-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256454	1	02/24/2018 20:57	NP
Carbon disulfide	BRL	5.0		ug/L	256454	1	02/24/2018 20:57	NP
Ethylbenzene	BRL	5.0		ug/L	256454	1	02/24/2018 20:57	NP
Toluene	BRL	5.0		ug/L	256454	1	02/24/2018 20:57	NP
Xylenes, Total	BRL	5.0		ug/L	256454	1	02/24/2018 20:57	NP
Surr: 4-Bromofluorobenzene	95.1	68-127		%REC	256454	1	02/24/2018 20:57	NP
Surr: Dibromofluoromethane	103	84.4-122		%REC	256454	1	02/24/2018 20:57	NP
Surr: Toluene-d8	105	80.1-116		%REC	256454	1	02/24/2018 20:57	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256492	1	02/26/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256248	1	02/22/2018 19:13	YH
Acenaphthylene	BRL	1.0		ug/L	256248	1	02/22/2018 19:13	YH
Acenaphthene	BRL	0.50		ug/L	256248	1	02/22/2018 19:13	YH
Fluorene	BRL	0.10		ug/L	256248	1	02/22/2018 19:13	YH
Phenanthrene	BRL	0.050		ug/L	256248	1	02/22/2018 19:13	YH
Anthracene	0.060	0.050		ug/L	256248	1	02/22/2018 19:13	YH
Fluoranthene	BRL	0.10		ug/L	256248	1	02/22/2018 19:13	YH
Pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 19:13	YH
Benz(a)anthracene	BRL	0.050		ug/L	256248	1	02/22/2018 19:13	YH
Chrysene	BRL	0.050		ug/L	256248	1	02/22/2018 19:13	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256248	1	02/22/2018 19:13	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256248	1	02/22/2018 19:13	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 19:13	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 19:13	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256248	1	02/22/2018 19:13	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256248	1	02/22/2018 19:13	YH
Surr: 4-Terphenyl-d14	124	59.9-128		%REC	256248	1	02/22/2018 19:13	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256272	1	02/23/2018 18:29	YH
2-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 18:29	YH
3,4-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 18:29	YH
Phenol	BRL	10		ug/L	256272	1	02/23/2018 18:29	YH
Surr: 2,4,6-Tribromophenol	63.7	51.4-138		%REC	256272	1	02/23/2018 18:29	YH
Surr: 2-Fluorobiphenyl	76.7	44.6-119		%REC	256272	1	02/23/2018 18:29	YH
Surr: 2-Fluorophenol	58.5	27.2-120		%REC	256272	1	02/23/2018 18:29	YH
Surr: 4-Terphenyl-d14	87.3	47.1-136		%REC	256272	1	02/23/2018 18:29	YH
Surr: Nitrobenzene-d5	77	40.7-119		%REC	256272	1	02/23/2018 18:29	YH

Qualifiers:

- * Value exceeds maximum contaminant level
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- 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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	AMW-12-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018 3:01:00 PM
Lab ID:	1802J08-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	51.5	18.1-120		%REC	256272	1	02/23/2018 18:29	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256440	1	02/26/2018 18:25	AS
ION SCAN SW9056A								
Nitrate	7.9	0.25		mg/L	R363674	1	02/21/2018 12:26	MP
Sulfate	94	1.0		mg/L	R363674	1	02/21/2018 12:26	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	BRL	4.0		ug/L	256247	1	02/22/2018 11:31	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363906	1	02/21/2018 09:50	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	256494	1	02/26/2018 16:30	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256299	1	02/27/2018 16:15	JR
Arsenic	BRL	0.0500		mg/L	256299	1	02/27/2018 16:15	JR
Barium	0.0430	0.0200		mg/L	256299	1	02/27/2018 16:15	JR
Beryllium	BRL	0.0100		mg/L	256299	1	02/27/2018 16:15	JR
Cadmium	BRL	0.0050		mg/L	256299	1	02/27/2018 16:15	JR
Chromium	0.0329	0.0100		mg/L	256299	1	02/27/2018 16:15	JR
Copper	BRL	0.0100		mg/L	256299	1	02/27/2018 16:15	JR
Iron	BRL	0.100		mg/L	256299	1	02/27/2018 16:15	JR
Lead	BRL	0.0100		mg/L	256299	1	02/27/2018 16:15	JR
Nickel	BRL	0.0200		mg/L	256299	1	02/27/2018 16:15	JR
Zinc	BRL	0.0200		mg/L	256299	1	02/27/2018 16:15	JR

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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-27DD-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018 1:50:00 PM
Lab ID:	1802J08-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256454	1	02/24/2018 21:21	NP
Carbon disulfide	BRL	5.0		ug/L	256454	1	02/24/2018 21:21	NP
Ethylbenzene	BRL	5.0		ug/L	256454	1	02/24/2018 21:21	NP
Toluene	BRL	5.0		ug/L	256454	1	02/24/2018 21:21	NP
Xylenes, Total	BRL	5.0		ug/L	256454	1	02/24/2018 21:21	NP
Surr: 4-Bromofluorobenzene	96.2	68-127		%REC	256454	1	02/24/2018 21:21	NP
Surr: Dibromofluoromethane	103	84.4-122		%REC	256454	1	02/24/2018 21:21	NP
Surr: Toluene-d8	104	80.1-116		%REC	256454	1	02/24/2018 21:21	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256492	1	02/26/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256248	1	02/22/2018 19:39	YH
Acenaphthylene	BRL	1.0		ug/L	256248	1	02/22/2018 19:39	YH
Acenaphthene	BRL	0.50		ug/L	256248	1	02/22/2018 19:39	YH
Fluorene	BRL	0.10		ug/L	256248	1	02/22/2018 19:39	YH
Phenanthrene	BRL	0.050		ug/L	256248	1	02/22/2018 19:39	YH
Anthracene	BRL	0.050		ug/L	256248	1	02/22/2018 19:39	YH
Fluoranthene	BRL	0.10		ug/L	256248	1	02/22/2018 19:39	YH
Pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 19:39	YH
Benz(a)anthracene	BRL	0.050		ug/L	256248	1	02/22/2018 19:39	YH
Chrysene	BRL	0.050		ug/L	256248	1	02/22/2018 19:39	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256248	1	02/22/2018 19:39	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256248	1	02/22/2018 19:39	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 19:39	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 19:39	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256248	1	02/22/2018 19:39	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256248	1	02/22/2018 19:39	YH
Surr: 4-Terphenyl-d14	102	59.9-128		%REC	256248	1	02/22/2018 19:39	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256272	1	02/23/2018 18:56	YH
2-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 18:56	YH
3,4-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 18:56	YH
Phenol	BRL	10		ug/L	256272	1	02/23/2018 18:56	YH
Surr: 2,4,6-Tribromophenol	67.3	51.4-138		%REC	256272	1	02/23/2018 18:56	YH
Surr: 2-Fluorobiphenyl	82.7	44.6-119		%REC	256272	1	02/23/2018 18:56	YH
Surr: 2-Fluorophenol	62.7	27.2-120		%REC	256272	1	02/23/2018 18:56	YH
Surr: 4-Terphenyl-d14	94.9	47.1-136		%REC	256272	1	02/23/2018 18:56	YH
Surr: Nitrobenzene-d5	83.2	40.7-119		%REC	256272	1	02/23/2018 18:56	YH

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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-27DD-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018 1:50:00 PM
Lab ID:	1802J08-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	54.5	18.1-120		%REC	256272	1	02/23/2018 18:56	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256440	1	02/26/2018 18:29	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363674	1	02/21/2018 12:41	MP
Sulfate	51	1.0		mg/L	R363674	1	02/21/2018 12:41	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	BRL	4.0		ug/L	256247	1	02/22/2018 11:35	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	2.50	0.500		mg/L	R363906	5	02/21/2018 09:50	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	0.073	0.010		mg/L	256494	1	02/26/2018 16:30	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256299	1	02/27/2018 16:18	JR
Arsenic	BRL	0.0500		mg/L	256299	1	02/27/2018 16:18	JR
Barium	0.542	0.0200		mg/L	256299	1	02/27/2018 16:18	JR
Beryllium	BRL	0.0100		mg/L	256299	1	02/27/2018 16:18	JR
Cadmium	BRL	0.0050		mg/L	256299	1	02/27/2018 16:18	JR
Chromium	BRL	0.0100		mg/L	256299	1	02/27/2018 16:18	JR
Copper	BRL	0.0100		mg/L	256299	1	02/27/2018 16:18	JR
Iron	4.04	0.100		mg/L	256299	1	02/27/2018 16:18	JR
Lead	BRL	0.0100		mg/L	256299	1	02/27/2018 16:18	JR
Nickel	0.0240	0.0200		mg/L	256299	1	02/27/2018 16:18	JR
Zinc	BRL	0.0200		mg/L	256299	1	02/27/2018 16:18	JR

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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-23D-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018 1:55:00 PM
Lab ID:	1802J08-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256454	1	02/24/2018 21:46	NP
Carbon disulfide	BRL	5.0		ug/L	256454	1	02/24/2018 21:46	NP
Ethylbenzene	BRL	5.0		ug/L	256454	1	02/24/2018 21:46	NP
Toluene	BRL	5.0		ug/L	256454	1	02/24/2018 21:46	NP
Xylenes, Total	BRL	5.0		ug/L	256454	1	02/24/2018 21:46	NP
Surr: 4-Bromofluorobenzene	93.2	68-127		%REC	256454	1	02/24/2018 21:46	NP
Surr: Dibromofluoromethane	101	84.4-122		%REC	256454	1	02/24/2018 21:46	NP
Surr: Toluene-d8	104	80.1-116		%REC	256454	1	02/24/2018 21:46	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256492	1	02/26/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256248	1	02/22/2018 20:05	YH
Acenaphthylene	BRL	1.0		ug/L	256248	1	02/22/2018 20:05	YH
Acenaphthene	BRL	0.50		ug/L	256248	1	02/22/2018 20:05	YH
Fluorene	BRL	0.10		ug/L	256248	1	02/22/2018 20:05	YH
Phenanthrene	BRL	0.050		ug/L	256248	1	02/22/2018 20:05	YH
Anthracene	BRL	0.050		ug/L	256248	1	02/22/2018 20:05	YH
Fluoranthene	BRL	0.10		ug/L	256248	1	02/22/2018 20:05	YH
Pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 20:05	YH
Benz(a)anthracene	BRL	0.050		ug/L	256248	1	02/22/2018 20:05	YH
Chrysene	BRL	0.050		ug/L	256248	1	02/22/2018 20:05	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256248	1	02/22/2018 20:05	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256248	1	02/22/2018 20:05	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 20:05	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 20:05	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256248	1	02/22/2018 20:05	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256248	1	02/22/2018 20:05	YH
Surr: 4-Terphenyl-d14	111	59.9-128		%REC	256248	1	02/22/2018 20:05	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256272	1	02/23/2018 19:22	YH
2-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 19:22	YH
3,4-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 19:22	YH
Phenol	BRL	10		ug/L	256272	1	02/23/2018 19:22	YH
Surr: 2,4,6-Tribromophenol	68.8	51.4-138		%REC	256272	1	02/23/2018 19:22	YH
Surr: 2-Fluorobiphenyl	82.1	44.6-119		%REC	256272	1	02/23/2018 19:22	YH
Surr: 2-Fluorophenol	63.6	27.2-120		%REC	256272	1	02/23/2018 19:22	YH
Surr: 4-Terphenyl-d14	96.7	47.1-136		%REC	256272	1	02/23/2018 19:22	YH
Surr: Nitrobenzene-d5	83.3	40.7-119		%REC	256272	1	02/23/2018 19:22	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
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- > Greater than Result value
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- 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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-23D-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018 1:55:00 PM
Lab ID:	1802J08-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	55.1	18.1-120		%REC	256272	1	02/23/2018 19:22	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256440	1	02/26/2018 18:33	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363674	1	02/21/2018 12:55	MP
Sulfate	50	1.0		mg/L	R363674	1	02/21/2018 12:55	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	93	4.0		ug/L	256247	1	02/22/2018 11:40	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363906	1	02/21/2018 09:50	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	256494	1	02/26/2018 16:30	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256299	1	02/27/2018 16:22	JR
Arsenic	BRL	0.0500		mg/L	256299	1	02/27/2018 16:22	JR
Barium	0.0658	0.0200		mg/L	256299	1	02/27/2018 16:22	JR
Beryllium	BRL	0.0100		mg/L	256299	1	02/27/2018 16:22	JR
Cadmium	BRL	0.0050		mg/L	256299	1	02/27/2018 16:22	JR
Chromium	BRL	0.0100		mg/L	256299	1	02/27/2018 16:22	JR
Copper	BRL	0.0100		mg/L	256299	1	02/27/2018 16:22	JR
Iron	0.587	0.100		mg/L	256299	1	02/27/2018 16:22	JR
Lead	BRL	0.0100		mg/L	256299	1	02/27/2018 16:22	JR
Nickel	BRL	0.0200		mg/L	256299	1	02/27/2018 16:22	JR
Zinc	BRL	0.0200		mg/L	256299	1	02/27/2018 16:22	JR

Qualifiers:

- * Value exceeds maximum contaminant level
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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:** 5-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-108D-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018 3:14:00 PM
Lab ID:	1802J08-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256454	1	02/24/2018 22:10	NP
Carbon disulfide	BRL	5.0		ug/L	256454	1	02/24/2018 22:10	NP
Ethylbenzene	BRL	5.0		ug/L	256454	1	02/24/2018 22:10	NP
Toluene	BRL	5.0		ug/L	256454	1	02/24/2018 22:10	NP
Xylenes, Total	BRL	5.0		ug/L	256454	1	02/24/2018 22:10	NP
Surr: 4-Bromofluorobenzene	95.2	68-127		%REC	256454	1	02/24/2018 22:10	NP
Surr: Dibromofluoromethane	106	84.4-122		%REC	256454	1	02/24/2018 22:10	NP
Surr: Toluene-d8	105	80.1-116		%REC	256454	1	02/24/2018 22:10	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256492	1	02/26/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256248	1	02/22/2018 20:30	YH
Acenaphthylene	BRL	1.0		ug/L	256248	1	02/22/2018 20:30	YH
Acenaphthene	BRL	0.50		ug/L	256248	1	02/22/2018 20:30	YH
Fluorene	BRL	0.10		ug/L	256248	1	02/22/2018 20:30	YH
Phenanthrene	BRL	0.050		ug/L	256248	1	02/22/2018 20:30	YH
Anthracene	BRL	0.050		ug/L	256248	1	02/22/2018 20:30	YH
Fluoranthene	BRL	0.10		ug/L	256248	1	02/22/2018 20:30	YH
Pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 20:30	YH
Benz(a)anthracene	BRL	0.050		ug/L	256248	1	02/22/2018 20:30	YH
Chrysene	BRL	0.050		ug/L	256248	1	02/22/2018 20:30	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256248	1	02/22/2018 20:30	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256248	1	02/22/2018 20:30	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 20:30	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 20:30	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256248	1	02/22/2018 20:30	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256248	1	02/22/2018 20:30	YH
Surr: 4-Terphenyl-d14	107	59.9-128		%REC	256248	1	02/22/2018 20:30	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256272	1	02/23/2018 19:50	YH
2-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 19:50	YH
3,4-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 19:50	YH
Phenol	BRL	10		ug/L	256272	1	02/23/2018 19:50	YH
Surr: 2,4,6-Tribromophenol	67.1	51.4-138		%REC	256272	1	02/23/2018 19:50	YH
Surr: 2-Fluorobiphenyl	78.3	44.6-119		%REC	256272	1	02/23/2018 19:50	YH
Surr: 2-Fluorophenol	56.1	27.2-120		%REC	256272	1	02/23/2018 19:50	YH
Surr: 4-Terphenyl-d14	92.7	47.1-136		%REC	256272	1	02/23/2018 19:50	YH
Surr: Nitrobenzene-d5	77.8	40.7-119		%REC	256272	1	02/23/2018 19:50	YH

Qualifiers:

- * Value exceeds maximum contaminant level
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- 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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-108D-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018 3:14:00 PM
Lab ID:	1802J08-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	48.4	18.1-120		%REC	256272	1	02/23/2018 19:50	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256440	1	02/26/2018 18:37	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363674	1	02/21/2018 13:10	MP
Sulfate	2.5	1.0		mg/L	R363674	1	02/21/2018 13:10	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	130	4.0		ug/L	256247	1	02/22/2018 11:45	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363906	1	02/21/2018 09:50	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	256494	1	02/26/2018 16:30	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256299	1	02/27/2018 16:25	JR
Arsenic	BRL	0.0500		mg/L	256299	1	02/27/2018 16:25	JR
Barium	0.798	0.0200		mg/L	256299	1	02/27/2018 16:25	JR
Beryllium	BRL	0.0100		mg/L	256299	1	02/27/2018 16:25	JR
Cadmium	BRL	0.0050		mg/L	256299	1	02/27/2018 16:25	JR
Chromium	BRL	0.0100		mg/L	256299	1	02/27/2018 16:25	JR
Copper	BRL	0.0100		mg/L	256299	1	02/27/2018 16:25	JR
Iron	0.185	0.100		mg/L	256299	1	02/27/2018 16:25	JR
Lead	BRL	0.0100		mg/L	256299	1	02/27/2018 16:25	JR
Nickel	0.0336	0.0200		mg/L	256299	1	02/27/2018 16:25	JR
Zinc	BRL	0.0200		mg/L	256299	1	02/27/2018 16:25	JR

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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-308D-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018 12:23:00 PM
Lab ID:	1802J08-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	15	5.0		ug/L	256454	1	02/24/2018 22:34	NP
Carbon disulfide	BRL	5.0		ug/L	256454	1	02/24/2018 22:34	NP
Ethylbenzene	BRL	5.0		ug/L	256454	1	02/24/2018 22:34	NP
Toluene	BRL	5.0		ug/L	256454	1	02/24/2018 22:34	NP
Xylenes, Total	BRL	5.0		ug/L	256454	1	02/24/2018 22:34	NP
Surr: 4-Bromofluorobenzene	93.7	68-127		%REC	256454	1	02/24/2018 22:34	NP
Surr: Dibromofluoromethane	102	84.4-122		%REC	256454	1	02/24/2018 22:34	NP
Surr: Toluene-d8	103	80.1-116		%REC	256454	1	02/24/2018 22:34	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256492	1	02/26/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	4.5	0.50		ug/L	256248	1	02/22/2018 20:56	YH
Acenaphthylene	BRL	1.0		ug/L	256248	1	02/22/2018 20:56	YH
Acenaphthene	BRL	0.50		ug/L	256248	1	02/22/2018 20:56	YH
Fluorene	BRL	0.10		ug/L	256248	1	02/22/2018 20:56	YH
Phenanthrene	0.22	0.050		ug/L	256248	1	02/22/2018 20:56	YH
Anthracene	0.088	0.050		ug/L	256248	1	02/22/2018 20:56	YH
Fluoranthene	BRL	0.10		ug/L	256248	1	02/22/2018 20:56	YH
Pyrene	0.050	0.050		ug/L	256248	1	02/22/2018 20:56	YH
Benz(a)anthracene	BRL	0.050		ug/L	256248	1	02/22/2018 20:56	YH
Chrysene	BRL	0.050		ug/L	256248	1	02/22/2018 20:56	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256248	1	02/22/2018 20:56	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256248	1	02/22/2018 20:56	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 20:56	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256248	1	02/22/2018 20:56	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256248	1	02/22/2018 20:56	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256248	1	02/22/2018 20:56	YH
Surr: 4-Terphenyl-d14	99.9	59.9-128		%REC	256248	1	02/22/2018 20:56	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256272	1	02/23/2018 20:15	YH
2-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 20:15	YH
3,4-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 20:15	YH
Phenol	BRL	10		ug/L	256272	1	02/23/2018 20:15	YH
Surr: 2,4,6-Tribromophenol	72.9	51.4-138		%REC	256272	1	02/23/2018 20:15	YH
Surr: 2-Fluorobiphenyl	79.3	44.6-119		%REC	256272	1	02/23/2018 20:15	YH
Surr: 2-Fluorophenol	61	27.2-120		%REC	256272	1	02/23/2018 20:15	YH
Surr: 4-Terphenyl-d14	90.2	47.1-136		%REC	256272	1	02/23/2018 20:15	YH
Surr: Nitrobenzene-d5	82.2	40.7-119		%REC	256272	1	02/23/2018 20:15	YH

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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-308D-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018 12:23:00 PM
Lab ID:	1802J08-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	55.9	18.1-120		%REC	256272	1	02/23/2018 20:15	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256493	1	02/28/2018 16:56	AS
ION SCAN SW9056A								
Nitrate	BRL	5.0		mg/L	R363674	20	02/21/2018 13:25	MP
Sulfate	BRL	20		mg/L	R363674	20	02/21/2018 13:25	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	18	4.0		ug/L	256247	1	02/22/2018 11:58	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363906	1	02/21/2018 09:50	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	BRL	0.010		mg/L	256494	1	02/26/2018 16:30	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256299	1	02/27/2018 16:28	JR
Arsenic	BRL	0.0500		mg/L	256299	1	02/27/2018 16:28	JR
Barium	0.336	0.0200		mg/L	256299	1	02/27/2018 16:28	JR
Beryllium	BRL	0.0100		mg/L	256299	1	02/27/2018 16:28	JR
Cadmium	BRL	0.0050		mg/L	256299	1	02/27/2018 16:28	JR
Chromium	0.0406	0.0100		mg/L	256299	1	02/27/2018 16:28	JR
Copper	BRL	0.0100		mg/L	256299	1	02/27/2018 16:28	JR
Iron	0.175	0.100		mg/L	256299	1	02/27/2018 16:28	JR
Lead	BRL	0.0100		mg/L	256299	1	02/27/2018 16:28	JR
Nickel	BRL	0.0200		mg/L	256299	1	02/27/2018 16:28	JR
Zinc	BRL	0.0200		mg/L	256299	1	02/27/2018 16:28	JR

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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-2-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018
Lab ID:	1802J08-011	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256454	1	02/24/2018 14:54	NP
Carbon disulfide	BRL	5.0		ug/L	256454	1	02/24/2018 14:54	NP
Ethylbenzene	BRL	5.0		ug/L	256454	1	02/24/2018 14:54	NP
Toluene	BRL	5.0		ug/L	256454	1	02/24/2018 14:54	NP
Xylenes, Total	BRL	5.0		ug/L	256454	1	02/24/2018 14:54	NP
Surr: 4-Bromofluorobenzene	95.3	68-127		%REC	256454	1	02/24/2018 14:54	NP
Surr: Dibromofluoromethane	104	84.4-122		%REC	256454	1	02/24/2018 14:54	NP
Surr: Toluene-d8	105	80.1-116		%REC	256454	1	02/24/2018 14:54	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:** 5-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-3-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018
Lab ID:	1802J08-012	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256454	1	02/24/2018 15:18	NP
Carbon disulfide	BRL	5.0		ug/L	256454	1	02/24/2018 15:18	NP
Ethylbenzene	BRL	5.0		ug/L	256454	1	02/24/2018 15:18	NP
Toluene	BRL	5.0		ug/L	256454	1	02/24/2018 15:18	NP
Xylenes, Total	BRL	5.0		ug/L	256454	1	02/24/2018 15:18	NP
Surr: 4-Bromofluorobenzene	95.4	68-127		%REC	256454	1	02/24/2018 15:18	NP
Surr: Dibromofluoromethane	101	84.4-122		%REC	256454	1	02/24/2018 15:18	NP
Surr: Toluene-d8	102	80.1-116		%REC	256454	1	02/24/2018 15:18	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:** 5-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-4-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018
Lab ID:	1802J08-013	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256454	1	02/24/2018 15:42	NP
Carbon disulfide	BRL	5.0		ug/L	256454	1	02/24/2018 15:42	NP
Ethylbenzene	BRL	5.0		ug/L	256454	1	02/24/2018 15:42	NP
Toluene	BRL	5.0		ug/L	256454	1	02/24/2018 15:42	NP
Xylenes, Total	BRL	5.0		ug/L	256454	1	02/24/2018 15:42	NP
Surr: 4-Bromofluorobenzene	95.3	68-127		%REC	256454	1	02/24/2018 15:42	NP
Surr: Dibromofluoromethane	99.8	84.4-122		%REC	256454	1	02/24/2018 15:42	NP
Surr: Toluene-d8	102	80.1-116		%REC	256454	1	02/24/2018 15:42	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:** 5-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-5-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018
Lab ID:	1802J08-014	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256454	1	02/24/2018 16:07	NP
Carbon disulfide	BRL	5.0		ug/L	256454	1	02/24/2018 16:07	NP
Ethylbenzene	BRL	5.0		ug/L	256454	1	02/24/2018 16:07	NP
Toluene	BRL	5.0		ug/L	256454	1	02/24/2018 16:07	NP
Xylenes, Total	BRL	5.0		ug/L	256454	1	02/24/2018 16:07	NP
Surr: 4-Bromofluorobenzene	97.1	68-127		%REC	256454	1	02/24/2018 16:07	NP
Surr: Dibromofluoromethane	104	84.4-122		%REC	256454	1	02/24/2018 16:07	NP
Surr: Toluene-d8	105	80.1-116		%REC	256454	1	02/24/2018 16:07	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:** 5-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-6-20180220-01
Project Name:	AGL Macon	**Collection Date:**	2/20/2018
Lab ID:	1802J08-015	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256454	1	02/24/2018 16:31	NP
Carbon disulfide	BRL	5.0		ug/L	256454	1	02/24/2018 16:31	NP
Ethylbenzene	BRL	5.0		ug/L	256454	1	02/24/2018 16:31	NP
Toluene	BRL	5.0		ug/L	256454	1	02/24/2018 16:31	NP
Xylenes, Total	BRL	5.0		ug/L	256454	1	02/24/2018 16:31	NP
Surr: 4-Bromofluorobenzene	94.4	68-127		%REC	256454	1	02/24/2018 16:31	NP
Surr: Dibromofluoromethane	103	84.4-122		%REC	256454	1	02/24/2018 16:31	NP
Surr: Toluene-d8	105	80.1-116		%REC	256454	1	02/24/2018 16:31	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

Pace Analytical Energy Services LLC
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March 1, 2018

Mirzeta Kararic
Analytical Environmental Services, Inc.
3785 Presidential Parkway
Suite 111
Atlanta, GA 30340

RE: **1802J08**

Pace Workorder: 25727

Dear Mirzeta Kararic:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, February 22, 2018. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Ruth Welsh 03/01/2018
Ruth.Welsh@pacelabs.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email PAESfeedback@pacelabs.com.

Total Number of Pages 19

CERTIFICATE OF ANALYSIS

Pace Analytical Energy Services LLC
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LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water
Accreditor:	West Virginia Department of Environmental Protection, Division of Water and Waste Management
Accreditation ID:	395
Scope:	Non-Potable Water
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	State of Virginia
Accreditation ID:	460201
Scope:	Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

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SAMPLE SUMMARY

Workorder: 25727 1802J08

Lab ID	Sample ID	Matrix	Date Collected	Date Received
257270001	MW-27D-20180220-01	Water	2/20/2018 11:30	2/22/2018 11:30
257270002	AMW-13-20180220-01	Water	2/20/2018 11:24	2/22/2018 11:30
257270003	MW-26-20180220-01	Water	2/20/2018 12:10	2/22/2018 11:30
257270004	AMW-11-20180220-01	Water	2/20/2018 12:09	2/22/2018 11:30
257270005	MW-26D-20180220-01	Water	2/20/2018 13:50	2/22/2018 11:30
257270006	AMW-12-20180220-01	Water	2/20/2018 15:01	2/22/2018 11:30
257270007	MW-27DD-20180220-01	Water	2/20/2018 13:50	2/22/2018 11:30
257270008	MW-23D-20180220-01	Water	2/20/2018 13:55	2/22/2018 11:30
257270009	MW-108D-20180220-01	Water	2/20/2018 15:14	2/22/2018 11:30
257270010	MW-308D-20180220-01	Water	2/20/2018 12:23	2/22/2018 11:30

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ANALYTICAL RESULTS

Workorder: 25727 1802J08

Lab ID: **257270001** Date Received: 2/22/2018 11:30 Matrix: Water

Sample ID: **MW-27D-20180220-01** Date Collected: 2/20/2018 11:30

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**60**	mg/l	5.0	0.32	1	2/28/2018 11:57	TD	n
Oxygen	**6.0**	mg/l	0.50	0.12	1	2/28/2018 11:57	TD	n
Nitrogen	**19**	mg/l	2.0	0.34	1	2/28/2018 11:57	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	2/28/2018 11:57	TD	n

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ANALYTICAL RESULTS

Workorder: 25727 1802J08

Lab ID: **257270002** Date Received: 2/22/2018 11:30 Matrix: Water

Sample ID: **AMW-13-20180220-01** Date Collected: 2/20/2018 11:24

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**190**	mg/l	5.0	0.32	1	2/28/2018 12:10	TD	n
Oxygen	**4.1**	mg/l	0.50	0.12	1	2/28/2018 12:10	TD	n
Nitrogen	**15**	mg/l	2.0	0.34	1	2/28/2018 12:10	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	2/28/2018 12:10	TD	n

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ANALYTICAL RESULTS

Workorder: 25727 1802J08

Lab ID: **257270003** Date Received: 2/22/2018 11:30 Matrix: Water

Sample ID: **MW-26-20180220-01** Date Collected: 2/20/2018 12:10

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**100**	mg/l	5.0	0.32	1	2/28/2018 12:22	TD	n
Oxygen	**4.7**	mg/l	0.50	0.12	1	2/28/2018 12:22	TD	n
Nitrogen	**17**	mg/l	2.0	0.34	1	2/28/2018 12:22	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	2/28/2018 12:22	TD	n

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ANALYTICAL RESULTS

Workorder: 25727 1802J08

Lab ID: **257270004** Date Received: 2/22/2018 11:30 Matrix: Water

Sample ID: **AMW-11-20180220-01** Date Collected: 2/20/2018 12:09

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**140**	mg/l	5.0	0.32	1	2/28/2018 12:35	TD	n
Oxygen	**4.0**	mg/l	0.50	0.12	1	2/28/2018 12:35	TD	n
Nitrogen	**19**	mg/l	2.0	0.34	1	2/28/2018 12:35	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	2/28/2018 12:35	TD	n

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ANALYTICAL RESULTS

Workorder: 25727 1802J08

Lab ID: **257270005** Date Received: 2/22/2018 11:30 Matrix: Water

Sample ID: **MW-26D-20180220-01** Date Collected: 2/20/2018 13:50

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**<5.0**	mg/l	5.0	0.32	1	2/28/2018 12:47	TD	n
Oxygen	**6.0**	mg/l	0.50	0.12	1	2/28/2018 12:47	TD	n
Nitrogen	**18**	mg/l	2.0	0.34	1	2/28/2018 12:47	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	2/28/2018 12:47	TD	n

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ANALYTICAL RESULTS

Workorder: 25727 1802J08

Lab ID: **257270006** Date Received: 2/22/2018 11:30 Matrix: Water

Sample ID: **AMW-12-20180220-01** Date Collected: 2/20/2018 15:01

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**150**	mg/l	5.0	0.32	1	2/28/2018 13:00	TD	n
Oxygen	**6.1**	mg/l	0.50	0.12	1	2/28/2018 13:00	TD	n
Nitrogen	**18**	mg/l	2.0	0.34	1	2/28/2018 13:00	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	2/28/2018 13:00	TD	n

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ANALYTICAL RESULTS

Workorder: 25727 1802J08

Lab ID: **257270007** Date Received: 2/22/2018 11:30 Matrix: Water

Sample ID: **MW-27DD-20180220-01** Date Collected: 2/20/2018 13:50

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**21**	mg/l	5.0	0.32	1	2/28/2018 13:12	TD	n
Oxygen	**6.6**	mg/l	0.50	0.12	1	2/28/2018 13:12	TD	n
Nitrogen	**21**	mg/l	2.0	0.34	1	2/28/2018 13:12	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	2/28/2018 13:12	TD	n

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ANALYTICAL RESULTS

Workorder: 25727 1802J08

Lab ID: **257270008** Date Received: 2/22/2018 11:30 Matrix: Water

Sample ID: **MW-23D-20180220-01** Date Collected: 2/20/2018 13:55

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**140**	mg/l	5.0	0.32	1	2/28/2018 13:24	TD	n
Oxygen	**2.5**	mg/l	0.50	0.12	1	2/28/2018 13:24	TD	n
Nitrogen	**14**	mg/l	2.0	0.34	1	2/28/2018 13:24	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	2/28/2018 13:24	TD	n

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ANALYTICAL RESULTS

Workorder: 25727 1802J08

Lab ID: **257270009** Date Received: 2/22/2018 11:30 Matrix: Water

Sample ID: **MW-108D-20180220-01** Date Collected: 2/20/2018 15:14

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**<5.0**	mg/l	5.0	0.32	1	2/28/2018 13:37	TD	n
Oxygen	**2.8**	mg/l	0.50	0.12	1	2/28/2018 13:37	TD	n
Nitrogen	**17**	mg/l	2.0	0.34	1	2/28/2018 13:37	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	2/28/2018 13:37	TD	n

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ANALYTICAL RESULTS

Workorder: 25727 1802J08

Lab ID: **257270010** Date Received: 2/22/2018 11:30 Matrix: Water

Sample ID: **MW-308D-20180220-01** Date Collected: 2/20/2018 12:23

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**<5.0**	mg/l	5.0	0.32	1	2/28/2018 13:49	TD	n
Oxygen	**6.4**	mg/l	0.50	0.12	1	2/28/2018 13:49	TD	n
Nitrogen	**16**	mg/l	2.0	0.34	1	2/28/2018 13:49	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	2/28/2018 13:49	TD	n

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 25727 1802J08

DEFINITIONS/QUALIFIERS

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA

Workorder: 25727 1802J08

QC Batch: DISG/6686 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 257270001, 257270002, 257270003, 257270004, 257270005, 257270006, 257270007, 257270008, 257270009, 257270010

METHOD BLANK: 53949

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Carbon Dioxide	mg/l	<5.0	5.0	n
Oxygen	mg/l	<0.50	0.50	n
Nitrogen	mg/l	<2.0	2.0	n
Carbon Monoxide	mg/l	<1.0	1.0	n

LABORATORY CONTROL SAMPLE & LCSD: 53951 53953

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Carbon Dioxide	mg/l	120	130	140	108	118	80-120	9	20	n
Oxygen	mg/l	11	10	10	91	92	80-120	1.5	20	n
Nitrogen	mg/l	140	120	120	88	90	80-120	2.2	20	n
Carbon Monoxide	mg/l	2	2.1	2.2	106	107	80-120	1	20	n

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

QUALITY CONTROL DATA QUALIFIERS

Workorder: 25727 1802J08

QUALITY CONTROL PARAMETER QUALIFIERS

n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 25727 1802J08

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
257270001	MW-27D-20180220-01			AM20GAX	DISG/6686
257270002	AMW-13-20180220-01			AM20GAX	DISG/6686
257270003	MW-26-20180220-01			AM20GAX	DISG/6686
257270004	AMW-11-20180220-01			AM20GAX	DISG/6686
257270005	MW-26D-20180220-01			AM20GAX	DISG/6686
257270006	AMW-12-20180220-01			AM20GAX	DISG/6686
257270007	MW-27DD-20180220-01			AM20GAX	DISG/6686
257270008	MW-23D-20180220-01			AM20GAX	DISG/6686
257270009	MW-108D-20180220-01			AM20GAX	DISG/6686
257270010	MW-308D-20180220-01			AM20GAX	DISG/6686

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

25728

CHAIN OF CUSTODY

Work Order: ________

Date: ________ Page ____ of ____

COMPANY: ↓

ADDRESS: ↓

PHONE:

EMAIL:

SAMPLED BY:

SIGNATURE:

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	O2, N2, CO, CO2												REMARKS	Number of Containers
1	MW-27D-20180220-01	2/20/18	11:30	X		GW	X													
2	AMW-13-20180220-01	〃	11:24	X		GW	X													
3	MW-26-20180220-01	〃	12:10	X		GW	X													
4	AMW-11-20180220-01	〃	12:09	X		GW	X													
5	MW-26D-20180220-01	〃	13:50	X		GW	X													
6	AMW-12-20180220-01	〃	15:01	X		GW	X													
7	MW-27DD-20180220-01	〃	13:50	X		GW	X													
8	MW-23D-20180220-01	〃	13:55	X		GW	X													
9	MW-108D-20180220-01	〃	15:14	X		GW	X													
10	MW-308D-20180220-01	〃	12:23	X		GW	X													
11																				
12																				
13																				
14																				

ANALYSIS REQUESTED / PRESERVATION (see codes)

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Anthony Stopher	2/21/2018 5:00pm	1. [illegible] PAS	2-22-18 11:30
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client FedEx UPS US mail courier Greyhound
other: ________

PROJECT INFORMATION
PROJECT NAME: 1802J08
PROJECT #:
SITE ADDRESS:
SEND REPORT TO:
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #: ________ PO#: ________

RECEIPT
Total # of Containers

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

STATE PROGRAM (if any): ________
E-mail? ☐ Fax? ☐
DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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

Cooler Receipt Form

Client Name: PAES Project: 1802508 Lab Work Order: 25727

A. **Shipping/Container Information** (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other:_____ **Air bill Present:** (Yes) No

Tracking Number: 724931685771

Custody Seal on Cooler/Box Present: Yes (No) **Seals Intact:** Yes No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam Other:_____

Type of Ice: (Wet) Blue None **Ice Intact:** (Yes) Melted

Cooler Temperature: 1°C **Radiation Screened:** Yes (No) **Chain of Custody Present:** (Yes) No

Comments:_____

B. **Laboratory Assignment/Log-in** (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC			✓	
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected	✓			
Sufficient volume provided	✓			
PAES containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	
Headspace present?	✓			

Comments:_____

Cooler contents examined/received by: CY Date: 2.22.18

Project Manager Review: _____ Date: 2/22/18

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **ERM-Southeast** AES Work Order Number: **1802H80**

2. Carrier: FedEx ■ UPS ☐ USPS ☐ Client ☐ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	○	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	○	○		
5.	Custody seals intact on shipping container?	○	○	○		
6.	Temperature blanks present?	○	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	○	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	○	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	○	○	○		
10.	Sampler name and/or signature on COC?	○	○	○		
11.	Were all samples received within holding time?	○	○	○		
12.	TAT marked on the COC?	○	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 2.3 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). TD 2/20/18

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	○	○	○		
17.	Custody seals present on sample containers?	○	○	○		
18.	Custody seals intact on sample containers?	○	○	○		
19.	Do sample container labels match the COC?	○	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	○	○	○		
21.	Were all of the samples listed on the COC received?	○	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	○	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	○	○	○		
24.	Were samples received in appropriate containers?	○	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	○	○	○		
26.	Were trip blanks submitted?	○	○	○	listed on COC ■ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). MDP 2/20/18

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	○	○	○		
29.	Containers meet preservation guidelines?	○	○	○		
30.	Was pH adjusted at Sample Receipt?	○	○	○		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). MDP 2/20/18

Checklist 6.9.17 Rev 2

Locked

Analytical Environmental Services, Inc

Date: 5-Mar-18

Client: ERM-Southeast
Project Name: AGLC Macon
Lab Order: 1802J08

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802J08-001A	MW-27D-20180220-01	2/20/2018 11:30:00AM	Groundwater	Volatile Organic Compounds by GC/MS		2/24/2018 1:41:00 PM	02/24/2018
1802J08-001B	MW-27D-20180220-01	2/20/2018 11:30:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/21/2018 3:30:00 PM	02/22/2018
1802J08-001B	MW-27D-20180220-01	2/20/2018 11:30:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/22/2018 10:00:00 AM	02/23/2018
1802J08-001D	MW-27D-20180220-01	2/20/2018 11:30:00AM	Groundwater	GC Analysis of Gaseous Samples		2/22/2018 9:03:00 AM	02/22/2018
1802J08-001E	MW-27D-20180220-01	2/20/2018 11:30:00AM	Groundwater	TOTAL METALS BY ICP		2/23/2018 11:59:00 AM	02/27/2018
1802J08-001E	MW-27D-20180220-01	2/20/2018 11:30:00AM	Groundwater	TOTAL MERCURY		2/26/2018 12:17:00 PM	02/26/2018
1802J08-001F	MW-27D-20180220-01	2/20/2018 11:30:00AM	Groundwater	Cyanide		2/26/2018 3:40:00 PM	02/26/2018
1802J08-001G	MW-27D-20180220-01	2/20/2018 11:30:00AM	Groundwater	Ferrous Iron			02/21/2018
1802J08-001H	MW-27D-20180220-01	2/20/2018 11:30:00AM	Groundwater	Sulfide by SW9030/9034		2/26/2018 11:10:00 AM	02/26/2018
1802J08-001I	MW-27D-20180220-01	2/20/2018 11:30:00AM	Groundwater	ION SCAN			02/21/2018
1802J08-002A	AMW-13-20180220-01	2/20/2018 11:24:00AM	Groundwater	Volatile Organic Compounds by GC/MS		2/24/2018 1:41:00 PM	02/24/2018
1802J08-002B	AMW-13-20180220-01	2/20/2018 11:24:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/21/2018 3:30:00 PM	02/22/2018
1802J08-002B	AMW-13-20180220-01	2/20/2018 11:24:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/22/2018 10:00:00 AM	02/23/2018
1802J08-002D	AMW-13-20180220-01	2/20/2018 11:24:00AM	Groundwater	GC Analysis of Gaseous Samples		2/22/2018 9:03:00 AM	02/22/2018
1802J08-002E	AMW-13-20180220-01	2/20/2018 11:24:00AM	Groundwater	TOTAL METALS BY ICP		2/23/2018 11:59:00 AM	02/27/2018
1802J08-002E	AMW-13-20180220-01	2/20/2018 11:24:00AM	Groundwater	TOTAL MERCURY		2/26/2018 12:17:00 PM	02/26/2018
1802J08-002F	AMW-13-20180220-01	2/20/2018 11:24:00AM	Groundwater	Cyanide		2/26/2018 3:40:00 PM	02/26/2018
1802J08-002G	AMW-13-20180220-01	2/20/2018 11:24:00AM	Groundwater	Ferrous Iron			02/21/2018
1802J08-002H	AMW-13-20180220-01	2/20/2018 11:24:00AM	Groundwater	Sulfide by SW9030/9034		2/26/2018 11:10:00 AM	02/26/2018
1802J08-002I	AMW-13-20180220-01	2/20/2018 11:24:00AM	Groundwater	ION SCAN			02/21/2018
1802J08-003A	MW-26-20180220-01	2/20/2018 12:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/24/2018 1:41:00 PM	02/24/2018
1802J08-003B	MW-26-20180220-01	2/20/2018 12:10:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/21/2018 3:30:00 PM	02/22/2018
1802J08-003B	MW-26-20180220-01	2/20/2018 12:10:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/22/2018 10:00:00 AM	02/23/2018
1802J08-003D	MW-26-20180220-01	2/20/2018 12:10:00PM	Groundwater	GC Analysis of Gaseous Samples		2/22/2018 9:03:00 AM	02/22/2018
1802J08-003E	MW-26-20180220-01	2/20/2018 12:10:00PM	Groundwater	TOTAL METALS BY ICP		2/23/2018 11:59:00 AM	02/27/2018
1802J08-003E	MW-26-20180220-01	2/20/2018 12:10:00PM	Groundwater	TOTAL METALS BY ICP		2/23/2018 11:59:00 AM	02/28/2018
1802J08-003E	MW-26-20180220-01	2/20/2018 12:10:00PM	Groundwater	TOTAL MERCURY		2/26/2018 12:17:00 PM	02/26/2018
1802J08-003F	MW-26-20180220-01	2/20/2018 12:10:00PM	Groundwater	Cyanide		2/26/2018 3:40:00 PM	02/26/2018
1802J08-003G	MW-26-20180220-01	2/20/2018 12:10:00PM	Groundwater	Ferrous Iron			02/21/2018

Analytical Environmental Services, Inc

Date: 5-Mar-18

Client: ERM-Southeast
Project Name: AGLC Macon
Lab Order: 1802J08

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802J08-003H	MW-26-20180220-01	2/20/2018 12:10:00PM	Groundwater	Sulfide by SW9030/9034		2/26/2018 12:30:00 PM	02/26/2018
1802J08-003I	MW-26-20180220-01	2/20/2018 12:10:00PM	Groundwater	ION SCAN			02/21/2018
1802J08-004A	AMW-11-20180220-01	2/20/2018 12:09:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/24/2018 1:41:00 PM	02/24/2018
1802J08-004B	AMW-11-20180220-01	2/20/2018 12:09:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/21/2018 3:30:00 PM	02/22/2018
1802J08-004B	AMW-11-20180220-01	2/20/2018 12:09:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/22/2018 10:00:00 AM	02/23/2018
1802J08-004D	AMW-11-20180220-01	2/20/2018 12:09:00PM	Groundwater	GC Analysis of Gaseous Samples		2/22/2018 9:03:00 AM	02/22/2018
1802J08-004E	AMW-11-20180220-01	2/20/2018 12:09:00PM	Groundwater	TOTAL METALS BY ICP		2/23/2018 11:59:00 AM	02/27/2018
1802J08-004E	AMW-11-20180220-01	2/20/2018 12:09:00PM	Groundwater	TOTAL MERCURY		2/26/2018 12:17:00 PM	02/26/2018
1802J08-004F	AMW-11-20180220-01	2/20/2018 12:09:00PM	Groundwater	Cyanide		2/26/2018 3:40:00 PM	02/26/2018
1802J08-004G	AMW-11-20180220-01	2/20/2018 12:09:00PM	Groundwater	Ferrous Iron			02/21/2018
1802J08-004H	AMW-11-20180220-01	2/20/2018 12:09:00PM	Groundwater	Sulfide by SW9030/9034		2/26/2018 12:30:00 PM	02/26/2018
1802J08-004I	AMW-11-20180220-01	2/20/2018 12:09:00PM	Groundwater	ION SCAN			02/21/2018
1802J08-005A	MW-26D-20180220-01	2/20/2018 1:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/24/2018 1:41:00 PM	02/24/2018
1802J08-005B	MW-26D-20180220-01	2/20/2018 1:50:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/21/2018 3:30:00 PM	02/22/2018
1802J08-005B	MW-26D-20180220-01	2/20/2018 1:50:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/22/2018 10:00:00 AM	02/23/2018
1802J08-005D	MW-26D-20180220-01	2/20/2018 1:50:00PM	Groundwater	GC Analysis of Gaseous Samples		2/22/2018 9:03:00 AM	02/22/2018
1802J08-005E	MW-26D-20180220-01	2/20/2018 1:50:00PM	Groundwater	TOTAL METALS BY ICP		2/23/2018 11:59:00 AM	02/27/2018
1802J08-005E	MW-26D-20180220-01	2/20/2018 1:50:00PM	Groundwater	TOTAL MERCURY		2/26/2018 12:17:00 PM	02/26/2018
1802J08-005F	MW-26D-20180220-01	2/20/2018 1:50:00PM	Groundwater	Cyanide		2/26/2018 3:40:00 PM	02/26/2018
1802J08-005G	MW-26D-20180220-01	2/20/2018 1:50:00PM	Groundwater	Ferrous Iron			02/21/2018
1802J08-005H	MW-26D-20180220-01	2/20/2018 1:50:00PM	Groundwater	Sulfide by SW9030/9034		2/26/2018 12:30:00 PM	02/26/2018
1802J08-005I	MW-26D-20180220-01	2/20/2018 1:50:00PM	Groundwater	ION SCAN			02/21/2018
1802J08-006A	AMW-12-20180220-01	2/20/2018 3:01:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/24/2018 1:41:00 PM	02/24/2018
1802J08-006B	AMW-12-20180220-01	2/20/2018 3:01:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/21/2018 3:30:00 PM	02/22/2018
1802J08-006B	AMW-12-20180220-01	2/20/2018 3:01:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/22/2018 10:00:00 AM	02/23/2018
1802J08-006D	AMW-12-20180220-01	2/20/2018 3:01:00PM	Groundwater	GC Analysis of Gaseous Samples		2/22/2018 9:03:00 AM	02/22/2018
1802J08-006E	AMW-12-20180220-01	2/20/2018 3:01:00PM	Groundwater	TOTAL METALS BY ICP		2/23/2018 11:59:00 AM	02/27/2018
1802J08-006E	AMW-12-20180220-01	2/20/2018 3:01:00PM	Groundwater	TOTAL MERCURY		2/26/2018 12:17:00 PM	02/26/2018
1802J08-006F	AMW-12-20180220-01	2/20/2018 3:01:00PM	Groundwater	Cyanide		2/26/2018 3:40:00 PM	02/26/2018

Analytical Environmental Services, Inc

Date: 5-Mar-18

Client: ERM-Southeast
Project Name: AGLC Macon
Lab Order: 1802J08

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802J08-006G	AMW-12-20180220-01	2/20/2018 3:01:00PM	Groundwater	Ferrous Iron			02/21/2018
1802J08-006H	AMW-12-20180220-01	2/20/2018 3:01:00PM	Groundwater	Sulfide by SW9030/9034		2/26/2018 12:30:00 PM	02/26/2018
1802J08-006I	AMW-12-20180220-01	2/20/2018 3:01:00PM	Groundwater	ION SCAN			02/21/2018
1802J08-007A	MW-27DD-20180220-01	2/20/2018 1:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/24/2018 1:41:00 PM	02/24/2018
1802J08-007B	MW-27DD-20180220-01	2/20/2018 1:50:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/21/2018 3:30:00 PM	02/22/2018
1802J08-007B	MW-27DD-20180220-01	2/20/2018 1:50:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/22/2018 10:00:00 AM	02/23/2018
1802J08-007D	MW-27DD-20180220-01	2/20/2018 1:50:00PM	Groundwater	GC Analysis of Gaseous Samples		2/22/2018 9:03:00 AM	02/22/2018
1802J08-007E	MW-27DD-20180220-01	2/20/2018 1:50:00PM	Groundwater	TOTAL METALS BY ICP		2/23/2018 11:59:00 AM	02/27/2018
1802J08-007E	MW-27DD-20180220-01	2/20/2018 1:50:00PM	Groundwater	TOTAL MERCURY		2/26/2018 12:17:00 PM	02/26/2018
1802J08-007F	MW-27DD-20180220-01	2/20/2018 1:50:00PM	Groundwater	Cyanide		2/26/2018 3:40:00 PM	02/26/2018
1802J08-007G	MW-27DD-20180220-01	2/20/2018 1:50:00PM	Groundwater	Ferrous Iron			02/21/2018
1802J08-007H	MW-27DD-20180220-01	2/20/2018 1:50:00PM	Groundwater	Sulfide by SW9030/9034		2/26/2018 12:30:00 PM	02/26/2018
1802J08-007I	MW-27DD-20180220-01	2/20/2018 1:50:00PM	Groundwater	ION SCAN			02/21/2018
1802J08-008A	MW-23D-20180220-01	2/20/2018 1:55:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/24/2018 1:41:00 PM	02/24/2018
1802J08-008B	MW-23D-20180220-01	2/20/2018 1:55:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/21/2018 3:30:00 PM	02/22/2018
1802J08-008B	MW-23D-20180220-01	2/20/2018 1:55:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/22/2018 10:00:00 AM	02/23/2018
1802J08-008D	MW-23D-20180220-01	2/20/2018 1:55:00PM	Groundwater	GC Analysis of Gaseous Samples		2/22/2018 9:03:00 AM	02/22/2018
1802J08-008E	MW-23D-20180220-01	2/20/2018 1:55:00PM	Groundwater	TOTAL METALS BY ICP		2/23/2018 11:59:00 AM	02/27/2018
1802J08-008E	MW-23D-20180220-01	2/20/2018 1:55:00PM	Groundwater	TOTAL MERCURY		2/26/2018 12:17:00 PM	02/26/2018
1802J08-008F	MW-23D-20180220-01	2/20/2018 1:55:00PM	Groundwater	Cyanide		2/26/2018 3:40:00 PM	02/26/2018
1802J08-008G	MW-23D-20180220-01	2/20/2018 1:55:00PM	Groundwater	Ferrous Iron			02/21/2018
1802J08-008H	MW-23D-20180220-01	2/20/2018 1:55:00PM	Groundwater	Sulfide by SW9030/9034		2/26/2018 12:30:00 PM	02/26/2018
1802J08-008I	MW-23D-20180220-01	2/20/2018 1:55:00PM	Groundwater	ION SCAN			02/21/2018
1802J08-009A	MW-108D-20180220-01	2/20/2018 3:14:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/24/2018 1:41:00 PM	02/24/2018
1802J08-009B	MW-108D-20180220-01	2/20/2018 3:14:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/21/2018 3:30:00 PM	02/22/2018
1802J08-009B	MW-108D-20180220-01	2/20/2018 3:14:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/22/2018 10:00:00 AM	02/23/2018
1802J08-009D	MW-108D-20180220-01	2/20/2018 3:14:00PM	Groundwater	GC Analysis of Gaseous Samples		2/22/2018 9:03:00 AM	02/22/2018
1802J08-009E	MW-108D-20180220-01	2/20/2018 3:14:00PM	Groundwater	TOTAL METALS BY ICP		2/23/2018 11:59:00 AM	02/27/2018
1802J08-009E	MW-108D-20180220-01	2/20/2018 3:14:00PM	Groundwater	TOTAL MERCURY		2/26/2018 12:17:00 PM	02/26/2018

Client: ERM-Southeast
Project Name: AGLC Macon
Lab Order: 1802J08

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802J08-009F	MW-108D-20180220-01	2/20/2018 3:14:00PM	Groundwater	Cyanide		2/26/2018 3:40:00 PM	02/26/2018
1802J08-009G	MW-108D-20180220-01	2/20/2018 3:14:00PM	Groundwater	Ferrous Iron			02/21/2018
1802J08-009H	MW-108D-20180220-01	2/20/2018 3:14:00PM	Groundwater	Sulfide by SW9030/9034		2/26/2018 12:30:00 PM	02/26/2018
1802J08-009I	MW-108D-20180220-01	2/20/2018 3:14:00PM	Groundwater	ION SCAN			02/21/2018
1802J08-010A	MW-308D-20180220-01	2/20/2018 12:23:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/24/2018 1:41:00 PM	02/24/2018
1802J08-010B	MW-308D-20180220-01	2/20/2018 12:23:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/21/2018 3:30:00 PM	02/22/2018
1802J08-010B	MW-308D-20180220-01	2/20/2018 12:23:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/22/2018 10:00:00 AM	02/23/2018
1802J08-010D	MW-308D-20180220-01	2/20/2018 12:23:00PM	Groundwater	GC Analysis of Gaseous Samples		2/22/2018 9:03:00 AM	02/22/2018
1802J08-010E	MW-308D-20180220-01	2/20/2018 12:23:00PM	Groundwater	TOTAL METALS BY ICP		2/23/2018 11:59:00 AM	02/27/2018
1802J08-010E	MW-308D-20180220-01	2/20/2018 12:23:00PM	Groundwater	TOTAL MERCURY		2/27/2018 1:42:00 PM	02/28/2018
1802J08-010F	MW-308D-20180220-01	2/20/2018 12:23:00PM	Groundwater	Cyanide		2/26/2018 3:40:00 PM	02/26/2018
1802J08-010G	MW-308D-20180220-01	2/20/2018 12:23:00PM	Groundwater	Ferrous Iron			02/21/2018
1802J08-010H	MW-308D-20180220-01	2/20/2018 12:23:00PM	Groundwater	Sulfide by SW9030/9034		2/26/2018 12:30:00 PM	02/26/2018
1802J08-010I	MW-308D-20180220-01	2/20/2018 12:23:00PM	Groundwater	ION SCAN			02/21/2018
1802J08-011A	TB-2-20180220-01	2/20/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		2/24/2018 1:41:00 PM	02/24/2018
1802J08-012A	TB-3-20180220-01	2/20/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		2/24/2018 1:41:00 PM	02/24/2018
1802J08-013A	TB-4-20180220-01	2/20/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		2/24/2018 1:41:00 PM	02/24/2018
1802J08-014A	TB-5-20180220-01	2/20/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		2/24/2018 1:41:00 PM	02/24/2018
1802J08-015A	TB-6-20180220-01	2/20/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		2/24/2018 1:41:00 PM	02/24/2018

AES, Inc.
3080 Presidential Drive
Atlanta GA 30340

pH Adjustment Sheet

AES Sample ID number	Test Requested	pH as Received	Required pH	Preservative Required	Lot # of Preservative	Amount Added mL or Pellets*	Final pH	Tech's Initials	Date	Time
180ATD8-010E	Metals	11	<2	HNO3	MET-781-42	0.5 mL Pellets	1	MP	2/21	9:55AM
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
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						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				

*** Number of Pellets when adding NAOH**

Client: ERM-Southeast
Project Name: AGL Macon
Workorder: 1802J08

ANALYTICAL QC SUMMARY REPORT

BatchID: 256247

Sample ID: **MB-256247**	Client ID:			Units: **ug/L**	Prep Date: **02/22/2018**	Run No: **363708**
SampleType: **MBLK**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256247**	Analysis Date: **02/22/2018**	Seq No: **8036825**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	BRL	4.0									

Sample ID: **LCS-256247**	Client ID:			Units: **ug/L**	Prep Date: **02/22/2018**	Run No: **363708**
SampleType: **LCS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256247**	Analysis Date: **02/22/2018**	Seq No: **8036826**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	114.4	4.0	200.0		57.2	45.1	115				

Sample ID: **LCSD-256247**	Client ID:			Units: **ug/L**	Prep Date: **02/22/2018**	Run No: **363708**
SampleType: **LCSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256247**	Analysis Date: **02/22/2018**	Seq No: **8036827**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	102.0	4.0	200.0		51.0	45.1	115	114.4	11.5	20	

Sample ID: **1802J08-002DMS**	Client ID: **AMW-13-20180220-01**			Units: **ug/L**	Prep Date: **02/22/2018**	Run No: **363708**
SampleType: **MS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256247**	Analysis Date: **02/22/2018**	Seq No: **8036836**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	101.4	4.0	200.0		50.7	42	115				

Sample ID: **1802J08-002DMSD**	Client ID: **AMW-13-20180220-01**			Units: **ug/L**	Prep Date: **02/22/2018**	Run No: **363708**
SampleType: **MSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256247**	Analysis Date: **02/22/2018**	Seq No: **8036837**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	111.3	4.0	200.0		55.6	42	115	101.4	9.29	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: ERM-Southeast
Project Name: AGL Macon
Workorder: 1802J08

ANALYTICAL QC SUMMARY REPORT

BatchID: 256248

Sample ID: **MB-256248**	Client ID:		Units: **ug/L**	Prep Date: **02/21/2018**	Run No: **363658**
SampleType: **MBLK**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**		BatchID: **256248**	Analysis Date: **02/22/2018**	Seq No: **8037285**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	BRL	0.50									
Acenaphthylene	BRL	1.0									
Anthracene	BRL	0.050									
Benz(a)anthracene	BRL	0.050									
Benzo(a)pyrene	BRL	0.050									
Benzo(b)fluoranthene	BRL	0.10									
Benzo(g,h,i)perylene	BRL	0.10									
Benzo(k)fluoranthene	BRL	0.050									
Chrysene	BRL	0.050									
Dibenz(a,h)anthracene	BRL	0.10									
Fluoranthene	BRL	0.10									
Fluorene	BRL	0.10									
Indeno(1,2,3-cd)pyrene	BRL	0.050									
Naphthalene	BRL	0.50									
Phenanthrene	BRL	0.050									
Pyrene	BRL	0.050									
Surr: 4-Terphenyl-d14	2.265	0	2.000		113	59.9	128				

Sample ID: **LCS-256248**	Client ID:		Units: **ug/L**	Prep Date: **02/21/2018**	Run No: **363658**
SampleType: **LCS**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**		BatchID: **256248**	Analysis Date: **02/22/2018**	Seq No: **8037286**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	2.000	0.50	2.000		100.0	64.7	120				
Acenaphthylene	2.092	1.0	2.000		105	63.2	120				
Anthracene	2.018	0.050	2.000		101	69.3	125				
Benz(a)anthracene	2.343	0.050	2.000		117	71.1	141				
Benzo(a)pyrene	2.115	0.050	2.000		106	67.2	131				
Benzo(b)fluoranthene	2.239	0.10	2.000		112	66.1	134				

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: ERM-Southeast
Project Name: AGL Macon
Workorder: 1802J08

ANALYTICAL QC SUMMARY REPORT

BatchID: 256248

Sample ID: **LCS-256248**	Client ID:		Units: **ug/L**	Prep Date: **02/21/2018**	Run No: **363658**
SampleType: **LCS**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**		BatchID: **256248**	Analysis Date: **02/22/2018**	Seq No: **8037286**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(g,h,i)perylene	1.418	0.10	2.000		70.9	66.1	128				
Benzo(k)fluoranthene	2.122	0.050	2.000		106	67.7	133				
Chrysene	2.383	0.050	2.000		119	71.3	137				
Dibenz(a,h)anthracene	1.498	0.10	2.000		74.9	59.7	125				
Fluoranthene	2.155	0.10	2.000		108	72.3	129				
Fluorene	2.028	0.10	2.000		101	69.2	120				
Indeno(1,2,3-cd)pyrene	1.547	0.050	2.000		77.4	66.4	127				
Naphthalene	1.849	0.50	2.000		92.5	56.8	120				
Phenanthrene	1.880	0.050	2.000		94.0	70.9	120				
Pyrene	2.353	0.050	2.000		118	68.4	138				
Surr: 4-Terphenyl-d14	2.438	0	2.000		122	59.9	128				

Sample ID: **LCSD-256248**	Client ID:		Units: **ug/L**	Prep Date: **02/21/2018**	Run No: **363658**
SampleType: **LCSD**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**		BatchID: **256248**	Analysis Date: **02/22/2018**	Seq No: **8037369**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	2.049	0.50	2.000		102	64.7	120	0	0	20	
Acenaphthylene	2.104	1.0	2.000		105	63.2	120	0	0	18.4	
Anthracene	2.027	0.050	2.000		101	69.3	125	0	0	20.5	
Benz(a)anthracene	2.290	0.050	2.000		115	71.1	141	0	0	18	
Benzo(a)pyrene	2.037	0.050	2.000		102	67.2	131	0	0	33.5	
Benzo(b)fluoranthene	2.146	0.10	2.000		107	66.1	134	0	0	18.4	
Benzo(g,h,i)perylene	1.447	0.10	2.000		72.3	66.1	128	0	0	21.8	
Benzo(k)fluoranthene	2.028	0.050	2.000		101	67.7	133	0	0	20	
Chrysene	2.298	0.050	2.000		115	71.3	137	0	0	18.4	
Dibenz(a,h)anthracene	1.478	0.10	2.000		73.9	59.7	125	0	0	20.6	
Fluoranthene	2.155	0.10	2.000		108	72.3	129	0	0	26.9	
Fluorene	2.055	0.10	2.000		103	69.2	120	0	0	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: ERM-Southeast
Project Name: AGL Macon
Workorder: 1802J08

ANALYTICAL QC SUMMARY REPORT

BatchID: 256248

Sample ID: **LCSD-256248** Client ID:
SampleType: **LCSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D**
Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037369**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Indeno(1,2,3-cd)pyrene	1.592	0.050	2.000		79.6	66.4	127	0	0	20.4	
Naphthalene	1.907	0.50	2.000		95.4	56.8	120	0	0	21	
Phenanthrene	1.892	0.050	2.000		94.6	70.9	120	0	0	20	
Pyrene	2.346	0.050	2.000		117	68.4	138	0	0	19	
Surr: 4-Terphenyl-d14	2.325	0	2.000		116	59.9	128	0	0	0	

Qualifiers:

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

Client: ERM-Southeast
Project Name: AGL Macon
Workorder: 1802J08

ANALYTICAL QC SUMMARY REPORT

BatchID: 256272

Sample ID: **MB-256272** Client ID: Units: **ug/L** Prep Date: **02/22/2018** Run No: **363790**
SampleType: **MBLK** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256272** Analysis Date: **02/23/2018** Seq No: **8039385**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,4-Dimethylphenol	BRL	10									
2-Methylphenol	BRL	10									
3,4-Methylphenol	BRL	10									
Phenol	BRL	10									
Surr: 2,4,6-Tribromophenol	67.87	0	100.0		67.9	51.4	138				
Surr: 2-Fluorobiphenyl	39.79	0	50.00		79.6	44.6	119				
Surr: 2-Fluorophenol	48.91	0	100.0		48.9	27.2	120				
Surr: 4-Terphenyl-d14	46.42	0	50.00		92.8	47.1	136				
Surr: Nitrobenzene-d5	42.91	0	50.00		85.8	40.7	119				
Surr: Phenol-d5	34.30	0	100.0		34.3	18.1	120				

Sample ID: **LCS-256272** Client ID: Units: **ug/L** Prep Date: **02/22/2018** Run No: **363790**
SampleType: **LCS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256272** Analysis Date: **02/23/2018** Seq No: **8039386**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	41.73	10	100.0		41.7	26.4	120				
Surr: 2,4,6-Tribromophenol	81.20	0	100.0		81.2	51.4	138				
Surr: 2-Fluorobiphenyl	47.04	0	50.00		94.1	44.6	119				
Surr: 2-Fluorophenol	57.93	0	100.0		57.9	27.2	120				
Surr: 4-Terphenyl-d14	54.47	0	50.00		109	47.1	136				
Surr: Nitrobenzene-d5	52.40	0	50.00		105	40.7	119				
Surr: Phenol-d5	41.37	0	100.0		41.4	18.1	120				

Sample ID: **1802J52-001BMS** Client ID: Units: **ug/L** Prep Date: **02/22/2018** Run No: **363790**
SampleType: **MS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256272** Analysis Date: **02/23/2018** Seq No: **8039636**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	55.61	10	100.0		55.6	31.5	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: ERM-Southeast
Project Name: AGL Macon
Workorder: 1802J08

ANALYTICAL QC SUMMARY REPORT

BatchID: 256272

Sample ID: **1802J52-001BMS** Client ID: Units: **ug/L** Prep Date: **02/22/2018** Run No: **363790**
SampleType: **MS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256272** Analysis Date: **02/23/2018** Seq No: **8039636**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 2,4,6-Tribromophenol	71.94	0	100.0		71.9	51.4	138				
Surr: 2-Fluorobiphenyl	41.67	0	50.00		83.3	44.6	119				
Surr: 2-Fluorophenol	67.30	0	100.0		67.3	27.2	120				
Surr: 4-Terphenyl-d14	48.68	0	50.00		97.4	47.1	136				
Surr: Nitrobenzene-d5	44.06	0	50.00		88.1	40.7	119				
Surr: Phenol-d5	56.76	0	100.0		56.8	18.1	120				

Sample ID: **1802J52-001BMSD** Client ID: Units: **ug/L** Prep Date: **02/22/2018** Run No: **363790**
SampleType: **MSD** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256272** Analysis Date: **02/23/2018** Seq No: **8039637**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	55.33	10	100.0		55.3	31.5	120	55.61	0.505	28.5	
Surr: 2,4,6-Tribromophenol	65.16	0	100.0		65.2	51.4	138	71.94	0	0	
Surr: 2-Fluorobiphenyl	39.75	0	50.00		79.5	44.6	119	41.67	0	0	
Surr: 2-Fluorophenol	64.97	0	100.0		65.0	27.2	120	67.30	0	0	
Surr: 4-Terphenyl-d14	45.81	0	50.00		91.6	47.1	136	48.68	0	0	
Surr: Nitrobenzene-d5	43.32	0	50.00		86.6	40.7	119	44.06	0	0	
Surr: Phenol-d5	55.64	0	100.0		55.6	18.1	120	56.76	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: ERM-Southeast
Project Name: AGL Macon
Workorder: 1802J08

ANALYTICAL QC SUMMARY REPORT

BatchID: 256299

Sample ID: **MB-256299** Client ID: Units: **mg/L** Prep Date: **02/23/2018** Run No: **364063**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010D** BatchID: **256299** Analysis Date: **02/27/2018** Seq No: **8046107**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	0.0200									
Barium	BRL	0.0200									
Beryllium	BRL	0.0100									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Copper	BRL	0.0100									
Iron	BRL	0.100									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Zinc	BRL	0.0200									

Sample ID: **MB-256299** Client ID: Units: **mg/L** Prep Date: **02/23/2018** Run No: **364063**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010D** BatchID: **256299** Analysis Date: **02/27/2018** Seq No: **8046131**

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

Sample ID: **LCS-256299** Client ID: Units: **mg/L** Prep Date: **02/23/2018** Run No: **364063**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010D** BatchID: **256299** Analysis Date: **02/27/2018** Seq No: **8046108**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9442	0.0200	1.000		94.4	80	120				
Arsenic	0.9520	0.0500	1.000	0.01503	93.7	80	120				
Barium	0.9408	0.0200	1.000		94.1	80	120				
Beryllium	0.8897	0.0100	1.000		89.0	80	120				
Cadmium	0.9286	0.0050	1.000		92.9	80	120				
Chromium	0.9119	0.0100	1.000		91.2	80	120				
Copper	0.8814	0.0100	1.000		88.1	80	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: ERM-Southeast
Project Name: AGL Macon
Workorder: 1802J08

ANALYTICAL QC SUMMARY REPORT

BatchID: 256299

Sample ID: **LCS-256299** Client ID: Units: **mg/L** Prep Date: **02/23/2018** Run No: **364063**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010D** BatchID: **256299** Analysis Date: **02/27/2018** Seq No: **8046108**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	8.867	0.100	10.00		88.7	80	120				
Lead	0.8991	0.0100	1.000		89.9	80	120				
Nickel	0.9327	0.0200	1.000		93.3	80	120				
Zinc	0.9422	0.0200	1.000		94.2	80	120				

Sample ID: **1802J07-014AMS** Client ID: Units: **mg/L** Prep Date: **02/23/2018** Run No: **364063**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010D** BatchID: **256299** Analysis Date: **02/27/2018** Seq No: **8046110**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9546	0.0200	1.000		95.5	75	125				
Arsenic	0.9443	0.0500	1.000		94.4	75	125				
Barium	0.9510	0.0200	1.000		95.1	75	125				
Beryllium	0.8910	0.0100	1.000		89.1	75	125				
Cadmium	0.9350	0.0050	1.000		93.5	75	125				
Chromium	0.9203	0.0100	1.000		92.0	75	125				
Copper	0.8891	0.0100	1.000	0.03585	85.3	75	125				
Iron	8.934	0.100	10.00		89.3	75	125				
Lead	0.9062	0.0100	1.000		90.6	75	125				
Nickel	0.9467	0.0200	1.000		94.7	75	125				
Zinc	0.9482	0.0200	1.000		94.8	75	125				

Sample ID: **1802J07-014AMSD** Client ID: Units: **mg/L** Prep Date: **02/23/2018** Run No: **364063**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010D** BatchID: **256299** Analysis Date: **02/27/2018** Seq No: **8046111**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9522	0.0200	1.000		95.2	75	125	0.9546	0.260	20	
Arsenic	0.9563	0.0500	1.000		95.6	75	125	0.9443	1.27	20	
Barium	0.9493	0.0200	1.000		94.9	75	125	0.9510	0.172	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: ERM-Southeast
Project Name: AGL Macon
Workorder: 1802J08

ANALYTICAL QC SUMMARY REPORT

BatchID: 256299

Sample ID: **1802J07-014AMSD** Client ID:
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010D**
Units: **mg/L** Prep Date: **02/23/2018** Run No: **364063**
BatchID: **256299** Analysis Date: **02/27/2018** Seq No: **8046111**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Beryllium	0.8981	0.0100	1.000		89.8	75	125	0.8910	0.794	20	
Cadmium	0.9396	0.0050	1.000		94.0	75	125	0.9350	0.494	20	
Chromium	0.9231	0.0100	1.000		92.3	75	125	0.9203	0.305	20	
Copper	0.8973	0.0100	1.000	0.03585	86.1	75	125	0.8891	0.917	20	
Iron	8.960	0.100	10.00		89.6	75	125	8.934	0.289	20	
Lead	0.9192	0.0100	1.000		91.9	75	125	0.9062	1.42	20	
Nickel	0.9397	0.0200	1.000		94.0	75	125	0.9467	0.743	20	
Zinc	0.9492	0.0200	1.000		94.9	75	125	0.9482	0.113	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: ERM-Southeast
Project Name: AGL Macon
Workorder: 1802J08

ANALYTICAL QC SUMMARY REPORT

BatchID: 256440

Sample ID: **MB-256440**	Client ID:			Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **363965**
SampleType: **MBLK**	TestCode: **Mercury, Total SW7470A**			BatchID: **256440**	Analysis Date: **02/26/2018**	Seq No: **8045130**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020									

Sample ID: **LCS-256440**	Client ID:			Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **363965**
SampleType: **LCS**	TestCode: **Mercury, Total SW7470A**			BatchID: **256440**	Analysis Date: **02/26/2018**	Seq No: **8045131**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003980	0.00020	0.0040		99.5	80	120				

Sample ID: **1802J08-001EMS**	Client ID: **MW-27D-20180220-01**			Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **363965**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**			BatchID: **256440**	Analysis Date: **02/26/2018**	Seq No: **8045133**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003938	0.00020	0.0040		98.4	70	130				

Sample ID: **1802J08-001EMSD**	Client ID: **MW-27D-20180220-01**			Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **363965**
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**			BatchID: **256440**	Analysis Date: **02/26/2018**	Seq No: **8045134**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003890	0.00020	0.0040		97.2	70	130	0.003938	1.24	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: ERM-Southeast
Project Name: AGL Macon
Workorder: 1802J08

ANALYTICAL QC SUMMARY REPORT

BatchID: 256454

Sample ID: **MB-256454** Client ID: Units: **ug/L** Prep Date: **02/24/2018** Run No: **363898**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256454** Analysis Date: **02/24/2018** Seq No: **8041862**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	5.0									
Carbon disulfide	BRL	5.0									
Ethylbenzene	BRL	5.0									
Toluene	BRL	5.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	47.71	0	50.00		95.4	68	127				
Surr: Dibromofluoromethane	50.05	0	50.00		100	84.4	122				
Surr: Toluene-d8	50.90	0	50.00		102	80.1	116				

Sample ID: **LCS-256454** Client ID: Units: **ug/L** Prep Date: **02/24/2018** Run No: **363898**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256454** Analysis Date: **02/24/2018** Seq No: **8041861**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	50.48	5.0	50.00		101	73.7	126				
Toluene	51.83	5.0	50.00		104	76.8	125				
Surr: 4-Bromofluorobenzene	48.40	0	50.00		96.8	68	127				
Surr: Dibromofluoromethane	50.89	0	50.00		102	84.4	122				
Surr: Toluene-d8	50.89	0	50.00		102	80.1	116				

Sample ID: **1802J08-001AMS** Client ID: **MW-27D-20180220-01** Units: **ug/L** Prep Date: **02/24/2018** Run No: **363898**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256454** Analysis Date: **02/24/2018** Seq No: **8041873**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	53.11	5.0	50.00		106	66.1	137				
Toluene	53.62	5.0	50.00		107	63.8	141				
Surr: 4-Bromofluorobenzene	48.19	0	50.00		96.4	68	127				
Surr: Dibromofluoromethane	50.21	0	50.00		100	84.4	122				
Surr: Toluene-d8	51.38	0	50.00		103	80.1	116				

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: ERM-Southeast
Project Name: AGL Macon
Workorder: 1802J08

ANALYTICAL QC SUMMARY REPORT

BatchID: 256454

Sample ID: **1802J08-001AMSD** Client ID: **MW-27D-20180220-01** Units: **ug/L** Prep Date: **02/24/2018** Run No: **363898**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256454** Analysis Date: **02/24/2018** Seq No: **8041874**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	54.18	5.0	50.00		108	66.1	137	53.11	1.99	20	
Toluene	55.25	5.0	50.00		110	63.8	141	53.62	2.99	20	
Surr: 4-Bromofluorobenzene	47.03	0	50.00		94.1	68	127	48.19	0	0	
Surr: Dibromofluoromethane	50.57	0	50.00		101	84.4	122	50.21	0	0	
Surr: Toluene-d8	51.25	0	50.00		102	80.1	116	51.38	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: ERM-Southeast
Project Name: AGL Macon
Workorder: 1802J08

ANALYTICAL QC SUMMARY REPORT

BatchID: 256492

Sample ID: **MB-256492**	Client ID:			Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **363957**
SampleType: **MBLK**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **256492**	Analysis Date: **02/26/2018**	Seq No: **8043250**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	2.00									

Sample ID: **LCS-256492**	Client ID:			Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **363957**
SampleType: **LCS**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **256492**	Analysis Date: **02/26/2018**	Seq No: **8043251**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	372.0	2.00	372.0		100	70	130				

Sample ID: **1802K30-002HMS**	Client ID:			Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **363957**
SampleType: **MS**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **256492**	Analysis Date: **02/26/2018**	Seq No: **8043288**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	18.00	2.00	18.60		96.8	62.8	125				

Sample ID: **1802K30-002HMSD**	Client ID:			Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **363957**
SampleType: **MSD**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **256492**	Analysis Date: **02/26/2018**	Seq No: **8043290**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	18.40	2.00	18.60		98.9	62.8	125	18.00	2.20	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: ERM-Southeast
Project Name: AGL Macon
Workorder: 1802J08

ANALYTICAL QC SUMMARY REPORT

BatchID: 256493

Sample ID: **MB-256493**	Client ID:					Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364027**	
SampleType: **MBLK**	TestCode: **Mercury, Total SW7470A**					BatchID: **256493**		Analysis Date: **02/27/2018**		Seq No: **8046156**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020									

Sample ID: **LCS-256493**	Client ID:					Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364027**	
SampleType: **LCS**	TestCode: **Mercury, Total SW7470A**					BatchID: **256493**		Analysis Date: **02/27/2018**		Seq No: **8046157**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004011	0.00020	0.0040		100	80	120				

Sample ID: **1802K30-002EMS**	Client ID:					Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364027**	
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**					BatchID: **256493**		Analysis Date: **02/27/2018**		Seq No: **8046161**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003881	0.00020	0.0040		97.0	70	130				

Sample ID: **1802K30-002EMSD**	Client ID:					Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364027**	
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**					BatchID: **256493**		Analysis Date: **02/27/2018**		Seq No: **8046162**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003766	0.00020	0.0040		94.2	70	130	0.003881	3.00	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: ERM-Southeast
Project Name: AGL Macon
Workorder: 1802J08

ANALYTICAL QC SUMMARY REPORT

BatchID: 256494

Sample ID: **MB-256494**	Client ID:					Units: **mg/L**		Prep Date: **02/26/2018**		Run No: **363959**	
SampleType: **MBLK**	TestCode: **Cyanide SW9014**					BatchID: **256494**		Analysis Date: **02/26/2018**		Seq No: **8043349**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	BRL	0.010									

Sample ID: **LCS-256494**	Client ID:					Units: **mg/L**		Prep Date: **02/26/2018**		Run No: **363959**	
SampleType: **LCS**	TestCode: **Cyanide SW9014**					BatchID: **256494**		Analysis Date: **02/26/2018**		Seq No: **8043350**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2460	0.010	0.2500		98.4	85	115				

Sample ID: **1802K30-002FMS**	Client ID:					Units: **mg/L**		Prep Date: **02/26/2018**		Run No: **363959**	
SampleType: **MS**	TestCode: **Cyanide SW9014**					BatchID: **256494**		Analysis Date: **02/26/2018**		Seq No: **8043368**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2520	0.010	0.2500		101	70	130				

Sample ID: **1802K30-002FMSD**	Client ID:					Units: **mg/L**		Prep Date: **02/26/2018**		Run No: **363959**	
SampleType: **MSD**	TestCode: **Cyanide SW9014**					BatchID: **256494**		Analysis Date: **02/26/2018**		Seq No: **8043369**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2550	0.010	0.2500		102	70	130	0.2520	1.18	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: ERM-Southeast
Project Name: AGL Macon
Workorder: 1802J08

ANALYTICAL QC SUMMARY REPORT

BatchID: R363674

Sample ID: **MB-R363674**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363674**	
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**				BatchID: **R363674**		Analysis Date: **02/21/2018**		Seq No: **8035702**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R363674**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363674**	
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**				BatchID: **R363674**		Analysis Date: **02/21/2018**		Seq No: **8035700**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.054	0.25	5.000		101	90	110				
Sulfate	25.33	1.0	25.00		101	90	110				

Sample ID: **1802J08-001IMS**	Client ID: **MW-27D-20180220-01**				Units: **mg/L**		Prep Date:		Run No: **363674**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R363674**		Analysis Date: **02/21/2018**		Seq No: **8035717**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.620	0.25	5.000		92.4	90	110				
Sulfate	27.10	1.0	25.00	3.319	95.1	90	110				

Sample ID: **1802J08-005IMS**	Client ID: **MW-26D-20180220-01**				Units: **mg/L**		Prep Date:		Run No: **363674**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R363674**		Analysis Date: **02/21/2018**		Seq No: **8035719**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.091	0.25	5.000	0.3430	95.0	90	110				
Sulfate	51.79	1.0	25.00	30.33	85.8	90	110				S

Sample ID: **1802J08-001IMSD**	Client ID: **MW-27D-20180220-01**				Units: **mg/L**		Prep Date:		Run No: **363674**	
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**				BatchID: **R363674**		Analysis Date: **02/21/2018**		Seq No: **8035718**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.675	0.25	5.000		93.5	90	110	4.620	1.18	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: ERM-Southeast
Project Name: AGL Macon
Workorder: 1802J08

ANALYTICAL QC SUMMARY REPORT

BatchID: R363674

Sample ID: **1802J08-001IMSD** Client ID: **MW-27D-20180220-01** Units: **mg/L** Prep Date: Run No: **363674**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R363674** Analysis Date: **02/21/2018** Seq No: **8035718**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	25.01	1.0	25.00	3.319	86.7	90	110	27.10	8.05	20	S

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: ERM-Southeast
Project Name: AGL Macon
Workorder: 1802J08

ANALYTICAL QC SUMMARY REPORT

BatchID: R363906

Sample ID: **MB-R363906**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363906**	
SampleType: **MBLK**	TestCode: **Ferrous Iron**					BatchID: **R363906**		Analysis Date: **02/20/2018**		Seq No: **8042016**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R363906**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363906**	
SampleType: **LCS**	TestCode: **Ferrous Iron**					BatchID: **R363906**		Analysis Date: **02/20/2018**		Seq No: **8042017**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5000	0.100	0.5000		100	85	115				

Sample ID: **1802H80-001GMS**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363906**	
SampleType: **MS**	TestCode: **Ferrous Iron**					BatchID: **R363906**		Analysis Date: **02/20/2018**		Seq No: **8042033**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	41.78	2.50	12.50	31.58	81.6	80	120				

Sample ID: **1802H80-001GMSD**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363906**	
SampleType: **MSD**	TestCode: **Ferrous Iron**					BatchID: **R363906**		Analysis Date: **02/20/2018**		Seq No: **8042034**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	43.62	2.50	12.50	31.58	96.4	80	120	41.78	4.33	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.

March 07, 2018

Adria Reimer
ERM-Southeast

3200 Windy Hill Rd
Atlanta GA 30339

RE: AGLC Macon

Dear Adria Reimer: Order No: 1802J52

Analytical Environmental Services, Inc. received 7 samples on 2/21/2018 1:00:00 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's accreditations are as follows:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.
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.

Sincerely,

Mirzeta Kararic

Mirzeta Kararic

Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
AES Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1802352

Date: 2/21/18 Page 1 of 1

COMPANY: ERM

ADDRESS: 3200 WINDY HILL RD SE SUITE 1600W ATLANTA, GA 30339

PHONE: (678) 486-2700

EMAIL: adria.reimer@erm.com

SAMPLED BY: ANDREAS SHORRIDGE, MARKEVIOUS THOMAS

SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	GRAB	COMPOSITE	MATRIX (see codes)	SVOC	VOC	Dissolved gases	Methane	Total Cyanide	Sulfide	Total Metals + mercury	Nitrate/Sulfate	Ferrous iron					Number of Containers
	PRESERVATION (see codes)						I	H+I	H+I	O	S+H	S/M+H	N+I	I	I					REMARKS
1	MW-11D-20180220-01	2/20/18	16:05	X		GW	2	2	2	2	1	1	1	1	1					13
2	MW-23-20180220-01	2/20/18	16:10	X		-11-	2	2	2	2	1	1	1	1	1					13
3	MW-10-20180220-01	2/21/18	10:15	X		-11-	2	2	2	2	1	1	1	1	1					13
4	AMW-14-20180221-01	2/21/18	09:40	X		-11-	2	2	2	2	1	1	1	1	1					13
5	TB-1-20180221-01	NA	—			W		2												2
6	TB-2-20180221-01	NA	—			W		2												2
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1.	2/21/2018	1.	2/21/18 11:25
2.	2/21/18 1100	2. MONIQUE A	2/21/18 1:02pm
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client FedEx UPS US mail courier Greyhound
other: _____

PROJECT INFORMATION
PROJECT NAME:
PROJECT #: 0366660
SITE ADDRESS: 137 MULBERRY ST MACON, GA
SEND REPORT TO: adria.reimer@erm.com
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers: 56

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

STATE PROGRAM (if any): GA
E-mail? [x] Fax? [ ]
DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1802J52

Date: 02/21/18 Page 1 of 1

COMPANY: ERM

ADDRESS: 3200 WINDY HILL RD SE SUITE 1500W ATLANTA, GA 30339

PHONE: (678) 486-2700

EMAIL: adria.reimer@erm.com

SAMPLED BY: ANDREAS SHOREDITS

SIGNATURE: [signature]

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

ANALYSIS REQUESTED: SVOC | VOC | Dissolved Gases | Methane | Total Cyanide | Sulfide | Total metals + mercury | nitrate / sulfate | ferrous iron

#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)	SVOC	VOC	Dissolved Gases	Methane	Total Cyanide	Sulfide	Total metals + mercury	nitrate / sulfate	ferrous iron	REMARKS	Number of Containers
						PRESERVATION (see codes)	NA	H+I	O	H+I	SH	Zn/SH	N+I	I	I		
1	MW-113D-20180221-01	2/21/18	10:05	X		GW	2	2	2	2	1	1	1	1	1	O=benzalkonium chloride	13
2																SH= Sodium hydroxide	
3																Zn= Zinc acetate	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. [signature]	02/21/2018 11:25	1. Samples received on 2/21/18 Monique A.	1:00 pm
2.		2. COC received on 2/26/18 M. Kararic	10:32
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client FedEx UPS US mail (Courier) Greyhound
other:

PROJECT INFORMATION
PROJECT NAME: AGL MACON
PROJECT #: 0366660
SITE ADDRESS: 137 MULBERRY ST MACON GA
SEND REPORT TO: adria.reimer@erm.com
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers: 13

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

STATE PROGRAM (if any): GA
E-mail? [x] Fax? [ ]
DATA PACKAGE: I ○ II ● III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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

Client: ERM-Southeast
Project: AGLC Macon
Lab ID: 1802J52

Case Narrative

Sample Receiving Nonconformance:

Sample "MW-113D-20180221-01" was received but not listed on the Chain of Custody. Andreas Shoredits was notified via phone on 2/22/18 and we proceeded with analysis. New COC was received via email on 2/26/18.

PAH Analysis by Method 8270D-SIM:

Matrix spike and matrix spike duplicate analyses were not performed with Batch 256248 due to insufficient sample volume.

Ferrous Iron by SM3500Fe-B:

Method 3500Fe-B as listed in Standard Methods for the Examination of Water and Wastewater 22nd Edition is applicable for analyzing Ferrous Iron in the field. Samples were analyzed in the laboratory which is a deviation from the method.

Analytical Environmental Services, Inc **Date:** 7-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-112D-20180220-01
Project Name:	AGLC Macon	**Collection Date:**	2/20/2018 4:05:00 PM
Lab ID:	1802J52-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256501	1	02/24/2018 17:09	CC
Carbon disulfide	BRL	5.0		ug/L	256501	1	02/24/2018 17:09	CC
Ethylbenzene	BRL	5.0		ug/L	256501	1	02/24/2018 17:09	CC
Toluene	BRL	5.0		ug/L	256501	1	02/24/2018 17:09	CC
Xylenes, Total	BRL	5.0		ug/L	256501	1	02/24/2018 17:09	CC
Surr: 4-Bromofluorobenzene	96.7	68-127		%REC	256501	1	02/24/2018 17:09	CC
Surr: Dibromofluoromethane	108	84.4-122		%REC	256501	1	02/24/2018 17:09	CC
Surr: Toluene-d8	111	80.1-116		%REC	256501	1	02/24/2018 17:09	CC
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256492	1	02/26/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256248	1	02/23/2018 11:02	YH
Acenaphthylene	BRL	1.0		ug/L	256248	1	02/23/2018 11:02	YH
Acenaphthene	BRL	0.50		ug/L	256248	1	02/23/2018 11:02	YH
Fluorene	BRL	0.10		ug/L	256248	1	02/23/2018 11:02	YH
Phenanthrene	BRL	0.050		ug/L	256248	1	02/23/2018 11:02	YH
Anthracene	BRL	0.050		ug/L	256248	1	02/23/2018 11:02	YH
Fluoranthene	BRL	0.10		ug/L	256248	1	02/23/2018 11:02	YH
Pyrene	BRL	0.050		ug/L	256248	1	02/23/2018 11:02	YH
Benz(a)anthracene	BRL	0.050		ug/L	256248	1	02/23/2018 11:02	YH
Chrysene	BRL	0.050		ug/L	256248	1	02/23/2018 11:02	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256248	1	02/23/2018 11:02	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256248	1	02/23/2018 11:02	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256248	1	02/23/2018 11:02	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256248	1	02/23/2018 11:02	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256248	1	02/23/2018 11:02	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256248	1	02/23/2018 11:02	YH
Surr: 4-Terphenyl-d14	105	59.9-128		%REC	256248	1	02/23/2018 11:02	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256272	1	02/23/2018 11:06	YH
2-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 11:06	YH
3,4-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 11:06	YH
Phenol	BRL	10		ug/L	256272	1	02/23/2018 11:06	YH
Surr: 2,4,6-Tribromophenol	63.5	51.4-138		%REC	256272	1	02/23/2018 11:06	YH
Surr: 2-Fluorobiphenyl	75.1	44.6-119		%REC	256272	1	02/23/2018 11:06	YH
Surr: 2-Fluorophenol	60.6	27.2-120		%REC	256272	1	02/23/2018 11:06	YH
Surr: 4-Terphenyl-d14	88.7	47.1-136		%REC	256272	1	02/23/2018 11:06	YH
Surr: Nitrobenzene-d5	77.3	40.7-119		%REC	256272	1	02/23/2018 11:06	YH

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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-112D-20180220-01
Project Name:	AGLC Macon	**Collection Date:**	2/20/2018 4:05:00 PM
Lab ID:	1802J52-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	52.7	18.1-120		%REC	256272	1	02/23/2018 11:06	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256498	1	02/28/2018 15:37	AS
ION SCAN SW9056A								
Nitrate	0.43	0.25		mg/L	R363674	1	02/21/2018 15:43	MP
Sulfate	3.2	1.0		mg/L	R363674	1	02/21/2018 15:43	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	BRL	4.0		ug/L	256247	1	02/22/2018 12:03	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363915	1	02/21/2018 15:50	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	BRL	0.010		mg/L	256494	1	02/26/2018 16:30	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256429	1	02/27/2018 19:25	IO
Arsenic	BRL	0.0500		mg/L	256429	1	02/27/2018 19:25	IO
Barium	0.194	0.0200		mg/L	256429	1	02/27/2018 19:25	IO
Beryllium	BRL	0.0100		mg/L	256429	1	02/27/2018 19:25	IO
Cadmium	BRL	0.0050		mg/L	256429	1	02/27/2018 19:25	IO
Chromium	BRL	0.0100		mg/L	256429	1	02/27/2018 19:25	IO
Copper	BRL	0.0100		mg/L	256429	1	02/27/2018 19:25	IO
Iron	BRL	0.100		mg/L	256429	1	02/27/2018 19:25	IO
Lead	BRL	0.0100		mg/L	256429	1	02/27/2018 19:25	IO
Nickel	BRL	0.0200		mg/L	256429	1	02/27/2018 19:25	IO
Zinc	BRL	0.0200		mg/L	256429	1	02/27/2018 19:25	IO

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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-23-20180220-01
Project Name:	AGLC Macon	**Collection Date:**	2/20/2018 4:10:00 PM
Lab ID:	1802J52-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256501	1	02/24/2018 22:06	CC
Carbon disulfide	BRL	5.0		ug/L	256501	1	02/24/2018 22:06	CC
Ethylbenzene	BRL	5.0		ug/L	256501	1	02/24/2018 22:06	CC
Toluene	BRL	5.0		ug/L	256501	1	02/24/2018 22:06	CC
Xylenes, Total	BRL	5.0		ug/L	256501	1	02/24/2018 22:06	CC
Surr: 4-Bromofluorobenzene	97	68-127		%REC	256501	1	02/24/2018 22:06	CC
Surr: Dibromofluoromethane	113	84.4-122		%REC	256501	1	02/24/2018 22:06	CC
Surr: Toluene-d8	108	80.1-116		%REC	256501	1	02/24/2018 22:06	CC
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256492	1	02/26/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256248	1	02/23/2018 11:30	YH
Acenaphthylene	BRL	1.0		ug/L	256248	1	02/23/2018 11:30	YH
Acenaphthene	BRL	0.50		ug/L	256248	1	02/23/2018 11:30	YH
Fluorene	BRL	0.10		ug/L	256248	1	02/23/2018 11:30	YH
Phenanthrene	BRL	0.050		ug/L	256248	1	02/23/2018 11:30	YH
Anthracene	BRL	0.050		ug/L	256248	1	02/23/2018 11:30	YH
Fluoranthene	BRL	0.10		ug/L	256248	1	02/23/2018 11:30	YH
Pyrene	BRL	0.050		ug/L	256248	1	02/23/2018 11:30	YH
Benz(a)anthracene	BRL	0.050		ug/L	256248	1	02/23/2018 11:30	YH
Chrysene	BRL	0.050		ug/L	256248	1	02/23/2018 11:30	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256248	1	02/23/2018 11:30	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256248	1	02/23/2018 11:30	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256248	1	02/23/2018 11:30	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256248	1	02/23/2018 11:30	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256248	1	02/23/2018 11:30	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256248	1	02/23/2018 11:30	YH
Surr: 4-Terphenyl-d14	105	59.9-128		%REC	256248	1	02/23/2018 11:30	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256272	1	02/23/2018 12:56	YH
2-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 12:56	YH
3,4-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 12:56	YH
Phenol	BRL	10		ug/L	256272	1	02/23/2018 12:56	YH
Surr: 2,4,6-Tribromophenol	67.9	51.4-138		%REC	256272	1	02/23/2018 12:56	YH
Surr: 2-Fluorobiphenyl	86.3	44.6-119		%REC	256272	1	02/23/2018 12:56	YH
Surr: 2-Fluorophenol	48.2	27.2-120		%REC	256272	1	02/23/2018 12:56	YH
Surr: 4-Terphenyl-d14	89.5	47.1-136		%REC	256272	1	02/23/2018 12:56	YH
Surr: Nitrobenzene-d5	85.9	40.7-119		%REC	256272	1	02/23/2018 12:56	YH

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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-23-20180220-01
Project Name:	AGLC Macon	**Collection Date:**	2/20/2018 4:10:00 PM
Lab ID:	1802J52-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	36	18.1-120		%REC	256272	1	02/23/2018 12:56	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256498	1	02/28/2018 16:32	AS
ION SCAN SW9056A								
Nitrate	0.81	0.25		mg/L	R363674	1	02/21/2018 15:58	MP
Sulfate	50	1.0		mg/L	R363674	1	02/21/2018 15:58	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	BRL	4.0		ug/L	256247	1	02/22/2018 12:08	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363915	1	02/21/2018 15:50	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	BRL	0.010		mg/L	256494	1	02/26/2018 16:30	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256429	1	02/27/2018 19:28	IO
Arsenic	BRL	0.0500		mg/L	256429	1	02/27/2018 19:28	IO
Barium	0.0673	0.0200		mg/L	256429	1	02/27/2018 19:28	IO
Beryllium	BRL	0.0100		mg/L	256429	1	02/27/2018 19:28	IO
Cadmium	BRL	0.0050		mg/L	256429	1	02/27/2018 19:28	IO
Chromium	BRL	0.0100		mg/L	256429	1	02/27/2018 19:28	IO
Copper	BRL	0.0100		mg/L	256429	1	02/27/2018 19:28	IO
Iron	BRL	0.100		mg/L	256429	1	02/27/2018 19:28	IO
Lead	BRL	0.0100		mg/L	256429	1	02/27/2018 19:28	IO
Nickel	BRL	0.0200		mg/L	256429	1	02/27/2018 19:28	IO
Zinc	BRL	0.0200		mg/L	256429	1	02/27/2018 19:28	IO

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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-10-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018 10:15:00 AM
Lab ID:	1802J52-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256501	1	02/24/2018 22:33	CC
Carbon disulfide	BRL	5.0		ug/L	256501	1	02/24/2018 22:33	CC
Ethylbenzene	BRL	5.0		ug/L	256501	1	02/24/2018 22:33	CC
Toluene	BRL	5.0		ug/L	256501	1	02/24/2018 22:33	CC
Xylenes, Total	BRL	5.0		ug/L	256501	1	02/24/2018 22:33	CC
Surr: 4-Bromofluorobenzene	94.3	68-127		%REC	256501	1	02/24/2018 22:33	CC
Surr: Dibromofluoromethane	106	84.4-122		%REC	256501	1	02/24/2018 22:33	CC
Surr: Toluene-d8	115	80.1-116		%REC	256501	1	02/24/2018 22:33	CC
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256492	1	02/26/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256248	1	02/23/2018 11:57	YH
Acenaphthylene	BRL	1.0		ug/L	256248	1	02/23/2018 11:57	YH
Acenaphthene	BRL	0.50		ug/L	256248	1	02/23/2018 11:57	YH
Fluorene	BRL	0.10		ug/L	256248	1	02/23/2018 11:57	YH
Phenanthrene	BRL	0.050		ug/L	256248	1	02/23/2018 11:57	YH
Anthracene	BRL	0.050		ug/L	256248	1	02/23/2018 11:57	YH
Fluoranthene	BRL	0.10		ug/L	256248	1	02/23/2018 11:57	YH
Pyrene	BRL	0.050		ug/L	256248	1	02/23/2018 11:57	YH
Benz(a)anthracene	BRL	0.050		ug/L	256248	1	02/23/2018 11:57	YH
Chrysene	BRL	0.050		ug/L	256248	1	02/23/2018 11:57	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256248	1	02/23/2018 11:57	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256248	1	02/23/2018 11:57	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256248	1	02/23/2018 11:57	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256248	1	02/23/2018 11:57	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256248	1	02/23/2018 11:57	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256248	1	02/23/2018 11:57	YH
Surr: 4-Terphenyl-d14	103	59.9-128		%REC	256248	1	02/23/2018 11:57	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256272	1	02/23/2018 13:25	YH
2-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 13:25	YH
3,4-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 13:25	YH
Phenol	BRL	10		ug/L	256272	1	02/23/2018 13:25	YH
Surr: 2,4,6-Tribromophenol	67.8	51.4-138		%REC	256272	1	02/23/2018 13:25	YH
Surr: 2-Fluorobiphenyl	83	44.6-119		%REC	256272	1	02/23/2018 13:25	YH
Surr: 2-Fluorophenol	42.2	27.2-120		%REC	256272	1	02/23/2018 13:25	YH
Surr: 4-Terphenyl-d14	94	47.1-136		%REC	256272	1	02/23/2018 13:25	YH
Surr: Nitrobenzene-d5	80.8	40.7-119		%REC	256272	1	02/23/2018 13:25	YH

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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-10-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018 10:15:00 AM
Lab ID:	1802J52-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	32.2	18.1-120		%REC	256272	1	02/23/2018 13:25	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256498	1	02/28/2018 16:36	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363674	1	02/21/2018 16:13	MP
Sulfate	57	1.0		mg/L	R363674	1	02/21/2018 16:13	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	BRL	4.0		ug/L	256247	1	02/22/2018 12:13	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363915	1	02/21/2018 15:50	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	BRL	0.010		mg/L	256494	1	02/26/2018 16:30	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256429	1	02/27/2018 19:32	IO
Arsenic	BRL	0.0500		mg/L	256429	1	02/27/2018 19:32	IO
Barium	0.0393	0.0200		mg/L	256429	1	02/27/2018 19:32	IO
Beryllium	BRL	0.0100		mg/L	256429	1	02/27/2018 19:32	IO
Cadmium	BRL	0.0050		mg/L	256429	1	02/27/2018 19:32	IO
Chromium	BRL	0.0100		mg/L	256429	1	02/27/2018 19:32	IO
Copper	BRL	0.0100		mg/L	256429	1	02/27/2018 19:32	IO
Iron	BRL	0.100		mg/L	256429	1	02/27/2018 19:32	IO
Lead	BRL	0.0100		mg/L	256429	1	02/27/2018 19:32	IO
Nickel	BRL	0.0200		mg/L	256429	1	02/27/2018 19:32	IO
Zinc	BRL	0.0200		mg/L	256429	1	02/27/2018 19:32	IO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- 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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	AMW-14-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018 9:40:00 AM
Lab ID:	1802J52-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	23	5.0		ug/L	256501	1	02/27/2018 16:45	NP
Carbon disulfide	BRL	5.0		ug/L	256501	1	02/27/2018 16:45	NP
Ethylbenzene	59	5.0		ug/L	256501	1	02/27/2018 16:45	NP
Toluene	5.3	5.0		ug/L	256501	1	02/27/2018 16:45	NP
Xylenes, Total	48	5.0		ug/L	256501	1	02/27/2018 16:45	NP
Surr: 4-Bromofluorobenzene	97.6	68-127		%REC	256501	1	02/27/2018 16:45	NP
Surr: Dibromofluoromethane	104	84.4-122		%REC	256501	1	02/27/2018 16:45	NP
Surr: Toluene-d8	103	80.1-116		%REC	256501	1	02/27/2018 16:45	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256492	1	02/26/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	320	50		ug/L	256248	100	02/23/2018 15:56	YH
Acenaphthylene	21	5.0		ug/L	256248	100	02/23/2018 15:56	YH
Acenaphthene	17	5.0		ug/L	256248	100	02/23/2018 15:56	YH
Fluorene	9.2	0.10		ug/L	256248	1	02/23/2018 12:23	YH
Phenanthrene	12	5.0		ug/L	256248	100	02/23/2018 15:56	YH
Anthracene	1.2	0.050		ug/L	256248	1	02/23/2018 12:23	YH
Fluoranthene	0.41	0.10		ug/L	256248	1	02/23/2018 12:23	YH
Pyrene	0.41	0.050		ug/L	256248	1	02/23/2018 12:23	YH
Benz(a)anthracene	BRL	0.050		ug/L	256248	1	02/23/2018 12:23	YH
Chrysene	BRL	0.050		ug/L	256248	1	02/23/2018 12:23	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256248	1	02/23/2018 12:23	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256248	1	02/23/2018 12:23	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256248	1	02/23/2018 12:23	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256248	1	02/23/2018 12:23	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256248	1	02/23/2018 12:23	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256248	1	02/23/2018 12:23	YH
Surr: 4-Terphenyl-d14	97.5	59.9-128		%REC	256248	1	02/23/2018 12:23	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256272	1	02/23/2018 13:54	YH
2-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 13:54	YH
3,4-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 13:54	YH
Phenol	BRL	10		ug/L	256272	1	02/23/2018 13:54	YH
Surr: 2,4,6-Tribromophenol	77.4	51.4-138		%REC	256272	1	02/23/2018 13:54	YH
Surr: 2-Fluorobiphenyl	89.9	44.6-119		%REC	256272	1	02/23/2018 13:54	YH
Surr: 2-Fluorophenol	48.4	27.2-120		%REC	256272	1	02/23/2018 13:54	YH
Surr: 4-Terphenyl-d14	95.1	47.1-136		%REC	256272	1	02/23/2018 13:54	YH
Surr: Nitrobenzene-d5	90.6	40.7-119		%REC	256272	1	02/23/2018 13:54	YH

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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	AMW-14-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018 9:40:00 AM
Lab ID:	1802J52-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	35.4	18.1-120		%REC	256272	1	02/23/2018 13:54	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256498	1	02/28/2018 16:40	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363674	1	02/21/2018 16:27	MP
Sulfate	37	1.0		mg/L	R363674	1	02/21/2018 16:27	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	18	4.0		ug/L	256247	1	02/22/2018 12:17	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	1.60	0.100		mg/L	R363915	1	02/21/2018 15:50	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	0.016	0.010		mg/L	256494	1	02/26/2018 16:30	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256429	1	02/27/2018 19:36	IO
Arsenic	BRL	0.0500		mg/L	256429	1	02/27/2018 19:36	IO
Barium	0.178	0.0200		mg/L	256429	1	02/27/2018 19:36	IO
Beryllium	BRL	0.0100		mg/L	256429	1	02/27/2018 19:36	IO
Cadmium	BRL	0.0050		mg/L	256429	1	02/27/2018 19:36	IO
Chromium	BRL	0.0100		mg/L	256429	1	02/27/2018 19:36	IO
Copper	BRL	0.0100		mg/L	256429	1	02/27/2018 19:36	IO
Iron	2.29	0.100		mg/L	256429	1	02/27/2018 19:36	IO
Lead	BRL	0.0100		mg/L	256429	1	02/27/2018 19:36	IO
Nickel	BRL	0.0200		mg/L	256429	1	02/27/2018 19:36	IO
Zinc	BRL	0.0200		mg/L	256429	1	02/27/2018 19:36	IO

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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-1-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018
Lab ID:	1802J52-005	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256501	1	02/24/2018 15:20	CC
Carbon disulfide	BRL	5.0		ug/L	256501	1	02/24/2018 15:20	CC
Ethylbenzene	BRL	5.0		ug/L	256501	1	02/24/2018 15:20	CC
Toluene	BRL	5.0		ug/L	256501	1	02/24/2018 15:20	CC
Xylenes, Total	BRL	5.0		ug/L	256501	1	02/24/2018 15:20	CC
Surr: 4-Bromofluorobenzene	91.9	68-127		%REC	256501	1	02/24/2018 15:20	CC
Surr: Dibromofluoromethane	106	84.4-122		%REC	256501	1	02/24/2018 15:20	CC
Surr: Toluene-d8	108	80.1-116		%REC	256501	1	02/24/2018 15:20	CC

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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-2-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018
Lab ID:	1802J52-006	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256501	1	02/24/2018 15:47	CC
Carbon disulfide	BRL	5.0		ug/L	256501	1	02/24/2018 15:47	CC
Ethylbenzene	BRL	5.0		ug/L	256501	1	02/24/2018 15:47	CC
Toluene	BRL	5.0		ug/L	256501	1	02/24/2018 15:47	CC
Xylenes, Total	BRL	5.0		ug/L	256501	1	02/24/2018 15:47	CC
Surr: 4-Bromofluorobenzene	98.9	68-127		%REC	256501	1	02/24/2018 15:47	CC
Surr: Dibromofluoromethane	114	84.4-122		%REC	256501	1	02/24/2018 15:47	CC
Surr: Toluene-d8	112	80.1-116		%REC	256501	1	02/24/2018 15:47	CC

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-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-113D-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018 10:05:00 AM
Lab ID:	1802J52-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256501	1	02/24/2018 23:00	CC
Carbon disulfide	BRL	5.0		ug/L	256501	1	02/24/2018 23:00	CC
Ethylbenzene	BRL	5.0		ug/L	256501	1	02/24/2018 23:00	CC
Toluene	BRL	5.0		ug/L	256501	1	02/24/2018 23:00	CC
Xylenes, Total	BRL	5.0		ug/L	256501	1	02/24/2018 23:00	CC
Surr: 4-Bromofluorobenzene	101	68-127		%REC	256501	1	02/24/2018 23:00	CC
Surr: Dibromofluoromethane	105	84.4-122		%REC	256501	1	02/24/2018 23:00	CC
Surr: Toluene-d8	110	80.1-116		%REC	256501	1	02/24/2018 23:00	CC
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256492	1	02/26/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256248	1	02/23/2018 12:50	YH
Acenaphthylene	BRL	1.0		ug/L	256248	1	02/23/2018 12:50	YH
Acenaphthene	BRL	0.50		ug/L	256248	1	02/23/2018 12:50	YH
Fluorene	BRL	0.10		ug/L	256248	1	02/23/2018 12:50	YH
Phenanthrene	BRL	0.050		ug/L	256248	1	02/23/2018 12:50	YH
Anthracene	BRL	0.050		ug/L	256248	1	02/23/2018 12:50	YH
Fluoranthene	BRL	0.10		ug/L	256248	1	02/23/2018 12:50	YH
Pyrene	BRL	0.050		ug/L	256248	1	02/23/2018 12:50	YH
Benz(a)anthracene	BRL	0.050		ug/L	256248	1	02/23/2018 12:50	YH
Chrysene	BRL	0.050		ug/L	256248	1	02/23/2018 12:50	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256248	1	02/23/2018 12:50	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256248	1	02/23/2018 12:50	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256248	1	02/23/2018 12:50	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256248	1	02/23/2018 12:50	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256248	1	02/23/2018 12:50	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256248	1	02/23/2018 12:50	YH
Surr: 4-Terphenyl-d14	105	59.9-128		%REC	256248	1	02/23/2018 12:50	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256272	1	02/23/2018 14:21	YH
2-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 14:21	YH
3,4-Methylphenol	BRL	10		ug/L	256272	1	02/23/2018 14:21	YH
Phenol	BRL	10		ug/L	256272	1	02/23/2018 14:21	YH
Surr: 2,4,6-Tribromophenol	71.6	51.4-138		%REC	256272	1	02/23/2018 14:21	YH
Surr: 2-Fluorobiphenyl	85.8	44.6-119		%REC	256272	1	02/23/2018 14:21	YH
Surr: 2-Fluorophenol	44	27.2-120		%REC	256272	1	02/23/2018 14:21	YH
Surr: 4-Terphenyl-d14	93.4	47.1-136		%REC	256272	1	02/23/2018 14:21	YH
Surr: Nitrobenzene-d5	87	40.7-119		%REC	256272	1	02/23/2018 14:21	YH

Qualifiers:

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- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 7-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-113D-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018 10:05:00 AM
Lab ID:	1802J52-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	32.8	18.1-120		%REC	256272	1	02/23/2018 14:21	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256498	1	02/28/2018 16:44	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363674	1	02/21/2018 16:42	MP
Sulfate	57	1.0		mg/L	R363674	1	02/21/2018 16:42	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	43	4.0		ug/L	256247	1	02/22/2018 12:22	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	0.268	0.100		mg/L	R363915	1	02/21/2018 15:50	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	BRL	0.010		mg/L	256494	1	02/26/2018 16:30	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256429	1	02/27/2018 19:39	IO
Arsenic	BRL	0.0500		mg/L	256429	1	02/27/2018 19:39	IO
Barium	0.0684	0.0200		mg/L	256429	1	02/27/2018 19:39	IO
Beryllium	BRL	0.0100		mg/L	256429	1	02/27/2018 19:39	IO
Cadmium	BRL	0.0050		mg/L	256429	1	02/27/2018 19:39	IO
Chromium	BRL	0.0100		mg/L	256429	1	02/27/2018 19:39	IO
Copper	BRL	0.0100		mg/L	256429	1	02/27/2018 19:39	IO
Iron	0.286	0.100		mg/L	256429	1	02/27/2018 19:39	IO
Lead	BRL	0.0100		mg/L	256429	1	02/27/2018 19:39	IO
Nickel	BRL	0.0200		mg/L	256429	1	02/27/2018 19:39	IO
Zinc	BRL	0.0200		mg/L	256429	1	02/27/2018 19:39	IO

Qualifiers:

- * Value exceeds maximum contaminant level
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Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

March 1, 2018

Mirzeta Kararic
Analytical Environmental Services, Inc.
3785 Presidential Parkway
Suite 111
Atlanta, GA 30340

RE: **1802J52**

Pace Workorder: 25728

Dear Mirzeta Kararic:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, February 22, 2018. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Ruth Welsh 03/01/2018
Ruth.Welsh@pacelabs.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email PAESfeedback@pacelabs.com.

Total Number of Pages 14

CERTIFICATE OF ANALYSIS

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water
Accreditor:	West Virginia Department of Environmental Protection, Division of Water and Waste Management
Accreditation ID:	395
Scope:	Non-Potable Water
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	State of Virginia
Accreditation ID:	460201
Scope:	Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

Pace Analytical Energy Services LLC
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SAMPLE SUMMARY

Workorder: 25728 1802J52

Lab ID	Sample ID	Matrix	Date Collected	Date Received
257280001	MW-112D-20180220-01	Water	2/20/2018 16:05	2/22/2018 11:30
257280002	MW-23-20180220-01	Water	2/20/2018 16:10	2/22/2018 11:30
257280003	MW-10-20180220-01	Water	2/21/2018 10:15	2/22/2018 11:30
257280004	AMW-14-20180220-01	Water	2/21/2018 09:40	2/22/2018 11:30
257280005	MW-113D-20180220-01	Water	2/21/2018 10:05	2/22/2018 11:30

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ANALYTICAL RESULTS

Workorder: 25728 1802J52

Lab ID: **257280001** Date Received: 2/22/2018 11:30 Matrix: Water

Sample ID: **MW-112D-20180220-01** Date Collected: 2/20/2018 16:05

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**<5.0**	mg/l	5.0	0.32	1	2/28/2018 10:31	TD	n
Oxygen	**8.6**	mg/l	0.50	0.12	1	2/28/2018 10:31	TD	n
Nitrogen	**18**	mg/l	2.0	0.34	1	2/28/2018 10:31	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	2/28/2018 10:31	TD	n

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ANALYTICAL RESULTS

Workorder: 25728 1802J52

Lab ID: **257280002** Date Received: 2/22/2018 11:30 Matrix: Water

Sample ID: **MW-23-20180220-01** Date Collected: 2/20/2018 16:10

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**100**	mg/l	5.0	0.32	1	2/28/2018 10:46	TD	n
Oxygen	**4.8**	mg/l	0.50	0.12	1	2/28/2018 10:46	TD	n
Nitrogen	**17**	mg/l	2.0	0.34	1	2/28/2018 10:46	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	2/28/2018 10:46	TD	n

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ANALYTICAL RESULTS

Workorder: 25728 1802J52

Lab ID: **257280003** Date Received: 2/22/2018 11:30 Matrix: Water

Sample ID: **MW-10-20180220-01** Date Collected: 2/21/2018 10:15

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**90**	mg/l	5.0	0.32	1	2/28/2018 10:58	TD	n
Oxygen	**4.8**	mg/l	0.50	0.12	1	2/28/2018 10:58	TD	n
Nitrogen	**14**	mg/l	2.0	0.34	1	2/28/2018 10:58	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	2/28/2018 10:58	TD	n

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ANALYTICAL RESULTS

Workorder: 25728 1802J52

Lab ID: **257280004** Date Received: 2/22/2018 11:30 Matrix: Water

Sample ID: **AMW-14-20180220-01** Date Collected: 2/21/2018 09:40

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**100**	mg/l	5.0	0.32	1	2/28/2018 11:12	TD	n
Oxygen	**4.0**	mg/l	0.50	0.12	1	2/28/2018 11:12	TD	n
Nitrogen	**15**	mg/l	2.0	0.34	1	2/28/2018 11:12	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	2/28/2018 11:12	TD	n

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ANALYTICAL RESULTS

Workorder: 25728 1802J52

Lab ID: **257280005** Date Received: 2/22/2018 11:30 Matrix: Water

Sample ID: **MW-113D-20180220-01** Date Collected: 2/21/2018 10:05

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**160**	mg/l	5.0	0.32	1	2/28/2018 11:27	TD	n
Oxygen	**3.7**	mg/l	0.50	0.12	1	2/28/2018 11:27	TD	n
Nitrogen	**18**	mg/l	2.0	0.34	1	2/28/2018 11:27	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	2/28/2018 11:27	TD	n

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 25728 1802J52

DEFINITIONS/QUALIFIERS

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA

Workorder: 25728 1802J52

QC Batch: DISG/6686 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 257280001, 257280002, 257280003, 257280004, 257280005

METHOD BLANK: 53949

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Carbon Dioxide	mg/l	<5.0	5.0	n
Oxygen	mg/l	<0.50	0.50	n
Nitrogen	mg/l	<2.0	2.0	n
Carbon Monoxide	mg/l	<1.0	1.0	n

LABORATORY CONTROL SAMPLE & LCSD: 53951 53953

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Carbon Dioxide	mg/l	120	130	140	108	118	80-120	9	20	n
Oxygen	mg/l	11	10	10	91	92	80-120	1.5	20	n
Nitrogen	mg/l	140	120	120	88	90	80-120	2.2	20	n
Carbon Monoxide	mg/l	2	2.1	2.2	106	107	80-120	1	20	n

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 25728 1802J52

QUALITY CONTROL PARAMETER QUALIFIERS

n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

Pace Analytical Energy Services LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 25728 1802J52

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
257280001	MW-112D-20180220-01			AM20GAX	DISG/6686
257280002	MW-23-20180220-01			AM20GAX	DISG/6686
257280003	MW-10-20180220-01			AM20GAX	DISG/6686
257280004	AMW-14-20180220-01			AM20GAX	DISG/6686
257280005	MW-113D-20180220-01			AM20GAX	DISG/6686

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

AES

25728

CHAIN OF CUSTODY

Work Order: _____

Date: _____ Page _____ of _____

COMPANY: ↓	ADDRESS: ↓
PHONE:	EMAIL:
SAMPLED BY:	SIGNATURE:

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	ANALYSIS REQUESTED: O_2, N_2, CO_2, CO	PRESERVATION (see codes)	REMARKS	Number of Containers
1	MW-112D-20180220-01	2/20/18	16:05	X		GW	X			
2	MW-23-20180220-01	2/20/18	16:10	X		GW	X			
3	MW-10-20180221-01	2/21/18	10:15	X		GW	X			
4	AMW-14-20180221-01	2/21/18	09:40	X		GW	X			
5	MW-113D-20180221-01	2/21/18	10:05	X		GW	X			
6										
7										
8										
9										
10										
11										
12										
13										
14										

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Andrena Stephens	2/22/18 5:00pm	1. XGD2 PAS	2.22.18 1130
2.		2.	
3.		3.	

PROJECT INFORMATION	RECEIPT
PROJECT NAME: 180ZJS2	Total # of Containers:
PROJECT #:	Turnaround Time (TAT) Request
SITE ADDRESS:	☒ Standard 5 Business Days
SEND REPORT TO: MKARAKICOAESATLANTA.COM	☐ 2 Business Day Rush
INVOICE TO: (IF DIFFERENT FROM ABOVE)	☐ Next Business Day Rush
	☐ Same-Day Rush **(auth req.)**
	☐ Other _____
QUOTE #: _____ PO#: _____	STATE PROGRAM (if any): _____
	E-mail? ☐ Fax? ☐
	DATA PACKAGE: I ○ II ○ III ○ IV ○

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client FedEx UPS US mail courier Greyhound
other: _____

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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

Cooler Receipt Form

Client Name: PAES Project: 1802J52 Lab Work Order: 25728

A. Shipping/Container Information (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other:_____ Air bill Present: (Yes) No

Tracking Number: 724931685771

Custody Seal on Cooler/Box Present: Yes (No) Seals Intact: Yes No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam Other:_____

Type of Ice: (Wet) Blue None Ice Intact: (Yes) Melted

Cooler Temperature: 1°C Radiation Screened: Yes (No) Chain of Custody Present: (Yes) No

Comments:_____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC			✓	
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected	✓			
Sufficient volume provided	✓			
PAES containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	
Headspace present?	✓			

Comments:_____

Cooler contents examined/received by: CY Date: 2.22.18

Project Manager Review: _____ Date: 2/22/18

F-PAE-Q-009-rev.01, 3Oct2017

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AES ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **ERM-Southeast** AES Work Order Number: **1802H80**

2. Carrier: FedEx ■ UPS ☐ USPS ☐ Client ☐ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	○	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	○	○		
5.	Custody seals intact on shipping container?	○	○	○		
6.	Temperature blanks present?	○	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	○	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	○	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	○	○	○		
10.	Sampler name and/or signature on COC?	○	○	○		
11.	Were all samples received within holding time?	○	○	○		
12.	TAT marked on the COC?	○	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 2.3 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). TD 2/20/18

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	○	○	○		
17.	Custody seals present on sample containers?	○	○	○		
18.	Custody seals intact on sample containers?	○	○	○		
19.	Do sample container labels match the COC?	○	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	○	○	○		
21.	Were all of the samples listed on the COC received?	○	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	○	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	○	○	○		
24.	Were samples received in appropriate containers?	○	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	○	○	○		
26.	Were trip blanks submitted?	○	○	○	listed on COC ■ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). MDP 2/20/18

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	○	○	○		
29.	Containers meet preservation guidelines?	○	○	○		
30.	Was pH adjusted at Sample Receipt?	○	○	○		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). MDP 2/20/18

Checklist 6.9.17 Rev 2

Locked

Client: ERM-Southeast
Project Name: AGLC Macon
Lab Order: 1802J52

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802J52-001A	MW-112D-20180220-01	2/20/2018 4:05:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/24/2018 1:58:00PM	02/24/2018
1802J52-001B	MW-112D-20180220-01	2/20/2018 4:05:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/22/2018 3:00:00PM	02/23/2018
1802J52-001B	MW-112D-20180220-01	2/20/2018 4:05:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/22/2018 10:00:00AM	02/23/2018
1802J52-001D	MW-112D-20180220-01	2/20/2018 4:05:00PM	Groundwater	GC Analysis of Gaseous Samples		2/22/2018 9:03:00AM	02/22/2018
1802J52-001E	MW-112D-20180220-01	2/20/2018 4:05:00PM	Groundwater	Cyanide		2/26/2018 3:40:00PM	02/26/2018
1802J52-001F	MW-112D-20180220-01	2/20/2018 4:05:00PM	Groundwater	Sulfide by SW9030/9034		2/26/2018 2:20:00PM	02/26/2018
1802J52-001G	MW-112D-20180220-01	2/20/2018 4:05:00PM	Groundwater	TOTAL METALS BY ICP		2/27/2018 10:52:00AM	02/27/2018
1802J52-001G	MW-112D-20180220-01	2/20/2018 4:05:00PM	Groundwater	TOTAL MERCURY		2/28/2018 12:19:00PM	02/28/2018
1802J52-001H	MW-112D-20180220-01	2/20/2018 4:05:00PM	Groundwater	ION SCAN			02/21/2018
1802J52-001I	MW-112D-20180220-01	2/20/2018 4:05:00PM	Groundwater	Ferrous Iron			02/21/2018
1802J52-002A	MW-23-20180220-01	2/20/2018 4:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/24/2018 1:58:00PM	02/24/2018
1802J52-002B	MW-23-20180220-01	2/20/2018 4:10:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/22/2018 3:00:00PM	02/23/2018
1802J52-002B	MW-23-20180220-01	2/20/2018 4:10:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/22/2018 10:00:00AM	02/23/2018
1802J52-002D	MW-23-20180220-01	2/20/2018 4:10:00PM	Groundwater	GC Analysis of Gaseous Samples		2/22/2018 9:03:00AM	02/22/2018
1802J52-002E	MW-23-20180220-01	2/20/2018 4:10:00PM	Groundwater	Cyanide		2/26/2018 3:40:00PM	02/26/2018
1802J52-002F	MW-23-20180220-01	2/20/2018 4:10:00PM	Groundwater	Sulfide by SW9030/9034		2/26/2018 2:20:00PM	02/26/2018
1802J52-002G	MW-23-20180220-01	2/20/2018 4:10:00PM	Groundwater	TOTAL METALS BY ICP		2/27/2018 10:52:00AM	02/27/2018
1802J52-002G	MW-23-20180220-01	2/20/2018 4:10:00PM	Groundwater	TOTAL MERCURY		2/28/2018 12:19:00PM	02/28/2018
1802J52-002H	MW-23-20180220-01	2/20/2018 4:10:00PM	Groundwater	ION SCAN			02/21/2018
1802J52-002I	MW-23-20180220-01	2/20/2018 4:10:00PM	Groundwater	Ferrous Iron			02/21/2018
1802J52-003A	MW-10-20180221-01	2/21/2018 10:15:00AM	Groundwater	Volatile Organic Compounds by GC/MS		2/24/2018 1:58:00PM	02/24/2018
1802J52-003B	MW-10-20180221-01	2/21/2018 10:15:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/22/2018 3:00:00PM	02/23/2018
1802J52-003B	MW-10-20180221-01	2/21/2018 10:15:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/22/2018 10:00:00AM	02/23/2018
1802J52-003D	MW-10-20180221-01	2/21/2018 10:15:00AM	Groundwater	GC Analysis of Gaseous Samples		2/22/2018 9:03:00AM	02/22/2018
1802J52-003E	MW-10-20180221-01	2/21/2018 10:15:00AM	Groundwater	Cyanide		2/26/2018 3:40:00PM	02/26/2018
1802J52-003F	MW-10-20180221-01	2/21/2018 10:15:00AM	Groundwater	Sulfide by SW9030/9034		2/26/2018 2:20:00PM	02/26/2018
1802J52-003G	MW-10-20180221-01	2/21/2018 10:15:00AM	Groundwater	TOTAL METALS BY ICP		2/27/2018 10:52:00AM	02/27/2018
1802J52-003G	MW-10-20180221-01	2/21/2018 10:15:00AM	Groundwater	TOTAL MERCURY		2/28/2018 12:19:00PM	02/28/2018
1802J52-003H	MW-10-20180221-01	2/21/2018 10:15:00AM	Groundwater	ION SCAN			02/21/2018

Client: ERM-Southeast
Project Name: AGLC Macon
Lab Order: 1802J52

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802J52-003I	MW-10-20180221-01	2/21/2018 10:15:00AM	Groundwater	Ferrous Iron			02/21/2018
1802J52-004A	AMW-14-20180221-01	2/21/2018 9:40:00AM	Groundwater	Volatile Organic Compounds by GC/MS		2/24/2018 1:58:00PM	02/27/2018
1802J52-004B	AMW-14-20180221-01	2/21/2018 9:40:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/22/2018 3:00:00PM	02/23/2018
1802J52-004B	AMW-14-20180221-01	2/21/2018 9:40:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/22/2018 10:00:00AM	02/23/2018
1802J52-004D	AMW-14-20180221-01	2/21/2018 9:40:00AM	Groundwater	GC Analysis of Gaseous Samples		2/22/2018 9:03:00AM	02/22/2018
1802J52-004E	AMW-14-20180221-01	2/21/2018 9:40:00AM	Groundwater	Cyanide		2/26/2018 3:40:00PM	02/26/2018
1802J52-004F	AMW-14-20180221-01	2/21/2018 9:40:00AM	Groundwater	Sulfide by SW9030/9034		2/26/2018 2:20:00PM	02/26/2018
1802J52-004G	AMW-14-20180221-01	2/21/2018 9:40:00AM	Groundwater	TOTAL METALS BY ICP		2/27/2018 10:52:00AM	02/27/2018
1802J52-004G	AMW-14-20180221-01	2/21/2018 9:40:00AM	Groundwater	TOTAL MERCURY		2/28/2018 12:19:00PM	02/28/2018
1802J52-004H	AMW-14-20180221-01	2/21/2018 9:40:00AM	Groundwater	ION SCAN			02/21/2018
1802J52-004I	AMW-14-20180221-01	2/21/2018 9:40:00AM	Groundwater	Ferrous Iron			02/21/2018
1802J52-005A	TB-1-20180221-01	2/21/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		2/24/2018 1:58:00PM	02/24/2018
1802J52-006A	TB-2-20180221-01	2/21/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		2/24/2018 1:58:00PM	02/24/2018
1802J52-007A	MW-113D-20180221-01	2/21/2018 10:05:00AM	Groundwater	Volatile Organic Compounds by GC/MS		2/24/2018 1:58:00PM	02/24/2018
1802J52-007B	MW-113D-20180221-01	2/21/2018 10:05:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/22/2018 3:00:00PM	02/23/2018
1802J52-007B	MW-113D-20180221-01	2/21/2018 10:05:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/22/2018 10:00:00AM	02/23/2018
1802J52-007D	MW-113D-20180221-01	2/21/2018 10:05:00AM	Groundwater	GC Analysis of Gaseous Samples		2/22/2018 9:03:00AM	02/22/2018
1802J52-007E	MW-113D-20180221-01	2/21/2018 10:05:00AM	Groundwater	Cyanide		2/26/2018 3:40:00PM	02/26/2018
1802J52-007F	MW-113D-20180221-01	2/21/2018 10:05:00AM	Groundwater	Sulfide by SW9030/9034		2/26/2018 2:20:00PM	02/26/2018
1802J52-007G	MW-113D-20180221-01	2/21/2018 10:05:00AM	Groundwater	TOTAL METALS BY ICP		2/27/2018 10:52:00AM	02/27/2018
1802J52-007G	MW-113D-20180221-01	2/21/2018 10:05:00AM	Groundwater	TOTAL MERCURY		2/28/2018 12:19:00PM	02/28/2018
1802J52-007H	MW-113D-20180221-01	2/21/2018 10:05:00AM	Groundwater	ION SCAN			02/21/2018
1802J52-007I	MW-113D-20180221-01	2/21/2018 10:05:00AM	Groundwater	Ferrous Iron			02/21/2018

Client: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802J52

ANALYTICAL QC SUMMARY REPORT

BatchID: 256247

Sample ID: **MB-256247**	Client ID:			Units: **ug/L**	Prep Date: **02/22/2018**	Run No: **363708**
SampleType: **MBLK**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256247**	Analysis Date: **02/22/2018**	Seq No: **8036825**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	BRL	4.0									

Sample ID: **LCS-256247**	Client ID:			Units: **ug/L**	Prep Date: **02/22/2018**	Run No: **363708**
SampleType: **LCS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256247**	Analysis Date: **02/22/2018**	Seq No: **8036826**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	114.4	4.0	200.0		57.2	45.1	115				

Sample ID: **LCSD-256247**	Client ID:			Units: **ug/L**	Prep Date: **02/22/2018**	Run No: **363708**
SampleType: **LCSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256247**	Analysis Date: **02/22/2018**	Seq No: **8036827**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	102.0	4.0	200.0		51.0	45.1	115	114.4	11.5	20	

Sample ID: **1802J08-002DMS**	Client ID:			Units: **ug/L**	Prep Date: **02/22/2018**	Run No: **363708**
SampleType: **MS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256247**	Analysis Date: **02/22/2018**	Seq No: **8036836**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	101.4	4.0	200.0		50.7	42	115				

Sample ID: **1802J08-002DMSD**	Client ID:			Units: **ug/L**	Prep Date: **02/22/2018**	Run No: **363708**
SampleType: **MSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256247**	Analysis Date: **02/22/2018**	Seq No: **8036837**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	111.3	4.0	200.0		55.6	42	115	101.4	9.29	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802J52

ANALYTICAL QC SUMMARY REPORT

BatchID: 256248

Sample ID: **MB-256248** Client ID: Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
SampleType: **MBLK** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037285**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	BRL	0.50									
Acenaphthylene	BRL	1.0									
Anthracene	BRL	0.050									
Benz(a)anthracene	BRL	0.050									
Benzo(a)pyrene	BRL	0.050									
Benzo(b)fluoranthene	BRL	0.10									
Benzo(g,h,i)perylene	BRL	0.10									
Benzo(k)fluoranthene	BRL	0.050									
Chrysene	BRL	0.050									
Dibenz(a,h)anthracene	BRL	0.10									
Fluoranthene	BRL	0.10									
Fluorene	BRL	0.10									
Indeno(1,2,3-cd)pyrene	BRL	0.050									
Naphthalene	BRL	0.50									
Phenanthrene	BRL	0.050									
Pyrene	BRL	0.050									
Surr: 4-Terphenyl-d14	2.265	0	2.000		113	59.9	128				

Sample ID: **LCS-256248** Client ID: Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037286**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	2.000	0.50	2.000		100.0	64.7	120				
Acenaphthylene	2.092	1.0	2.000		105	63.2	120				
Anthracene	2.018	0.050	2.000		101	69.3	125				
Benz(a)anthracene	2.343	0.050	2.000		117	71.1	141				
Benzo(a)pyrene	2.115	0.050	2.000		106	67.2	131				
Benzo(b)fluoranthene	2.239	0.10	2.000		112	66.1	134				

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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802J52

ANALYTICAL QC SUMMARY REPORT

BatchID: 256248

Sample ID: **LCS-256248** Client ID: Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037286**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(g,h,i)perylene	1.418	0.10	2.000		70.9	66.1	128				
Benzo(k)fluoranthene	2.122	0.050	2.000		106	67.7	133				
Chrysene	2.383	0.050	2.000		119	71.3	137				
Dibenz(a,h)anthracene	1.498	0.10	2.000		74.9	59.7	125				
Fluoranthene	2.155	0.10	2.000		108	72.3	129				
Fluorene	2.028	0.10	2.000		101	69.2	120				
Indeno(1,2,3-cd)pyrene	1.547	0.050	2.000		77.4	66.4	127				
Naphthalene	1.849	0.50	2.000		92.5	56.8	120				
Phenanthrene	1.880	0.050	2.000		94.0	70.9	120				
Pyrene	2.353	0.050	2.000		118	68.4	138				
Surr: 4-Terphenyl-d14	2.438	0	2.000		122	59.9	128				

Sample ID: **LCSD-256248** Client ID: Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
SampleType: **LCSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037369**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	2.049	0.50	2.000		102	64.7	120	0	0	20	
Acenaphthylene	2.104	1.0	2.000		105	63.2	120	0	0	18.4	
Anthracene	2.027	0.050	2.000		101	69.3	125	0	0	20.5	
Benz(a)anthracene	2.290	0.050	2.000		115	71.1	141	0	0	18	
Benzo(a)pyrene	2.037	0.050	2.000		102	67.2	131	0	0	33.5	
Benzo(b)fluoranthene	2.146	0.10	2.000		107	66.1	134	0	0	18.4	
Benzo(g,h,i)perylene	1.447	0.10	2.000		72.3	66.1	128	0	0	21.8	
Benzo(k)fluoranthene	2.028	0.050	2.000		101	67.7	133	0	0	20	
Chrysene	2.298	0.050	2.000		115	71.3	137	0	0	18.4	
Dibenz(a,h)anthracene	1.478	0.10	2.000		73.9	59.7	125	0	0	20.6	
Fluoranthene	2.155	0.10	2.000		108	72.3	129	0	0	26.9	
Fluorene	2.055	0.10	2.000		103	69.2	120	0	0	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802J52

ANALYTICAL QC SUMMARY REPORT

BatchID: 256248

Sample ID: **LCSD-256248** Client ID:
SampleType: **LCSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D**
Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037369**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Indeno(1,2,3-cd)pyrene	1.592	0.050	2.000		79.6	66.4	127	0	0	20.4	
Naphthalene	1.907	0.50	2.000		95.4	56.8	120	0	0	21	
Phenanthrene	1.892	0.050	2.000		94.6	70.9	120	0	0	20	
Pyrene	2.346	0.050	2.000		117	68.4	138	0	0	19	
Surr: 4-Terphenyl-d14	2.325	0	2.000		116	59.9	128	0	0	0	

Qualifiers:

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

Client: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802J52

ANALYTICAL QC SUMMARY REPORT

BatchID: 256272

Sample ID: **MB-256272** Client ID: Units: **ug/L** Prep Date: **02/22/2018** Run No: **363790**
SampleType: **MBLK** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256272** Analysis Date: **02/23/2018** Seq No: **8039385**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,4-Dimethylphenol	BRL	10									
2-Methylphenol	BRL	10									
3,4-Methylphenol	BRL	10									
Phenol	BRL	10									
Surr: 2,4,6-Tribromophenol	67.87	0	100.0		67.9	51.4	138				
Surr: 2-Fluorobiphenyl	39.79	0	50.00		79.6	44.6	119				
Surr: 2-Fluorophenol	48.91	0	100.0		48.9	27.2	120				
Surr: 4-Terphenyl-d14	46.42	0	50.00		92.8	47.1	136				
Surr: Nitrobenzene-d5	42.91	0	50.00		85.8	40.7	119				
Surr: Phenol-d5	34.30	0	100.0		34.3	18.1	120				

Sample ID: **LCS-256272** Client ID: Units: **ug/L** Prep Date: **02/22/2018** Run No: **363790**
SampleType: **LCS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256272** Analysis Date: **02/23/2018** Seq No: **8039386**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	41.73	10	100.0		41.7	26.4	120				
Surr: 2,4,6-Tribromophenol	81.20	0	100.0		81.2	51.4	138				
Surr: 2-Fluorobiphenyl	47.04	0	50.00		94.1	44.6	119				
Surr: 2-Fluorophenol	57.93	0	100.0		57.9	27.2	120				
Surr: 4-Terphenyl-d14	54.47	0	50.00		109	47.1	136				
Surr: Nitrobenzene-d5	52.40	0	50.00		105	40.7	119				
Surr: Phenol-d5	41.37	0	100.0		41.4	18.1	120				

Sample ID: **1802J52-001BMS** Client ID: **MW-112D-20180220-01** Units: **ug/L** Prep Date: **02/22/2018** Run No: **363790**
SampleType: **MS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256272** Analysis Date: **02/23/2018** Seq No: **8039636**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	55.61	10	100.0		55.6	31.5	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802J52

ANALYTICAL QC SUMMARY REPORT

BatchID: 256272

Sample ID: **1802J52-001BMS**	Client ID: **MW-112D-20180220-01**	Units: **ug/L**	Prep Date: **02/22/2018**	Run No: **363790**
SampleType: **MS**	TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**	BatchID: **256272**	Analysis Date: **02/23/2018**	Seq No: **8039636**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 2,4,6-Tribromophenol	71.94	0	100.0		71.9	51.4	138				
Surr: 2-Fluorobiphenyl	41.67	0	50.00		83.3	44.6	119				
Surr: 2-Fluorophenol	67.30	0	100.0		67.3	27.2	120				
Surr: 4-Terphenyl-d14	48.68	0	50.00		97.4	47.1	136				
Surr: Nitrobenzene-d5	44.06	0	50.00		88.1	40.7	119				
Surr: Phenol-d5	56.76	0	100.0		56.8	18.1	120				

Sample ID: **1802J52-001BMSD**	Client ID: **MW-112D-20180220-01**	Units: **ug/L**	Prep Date: **02/22/2018**	Run No: **363790**
SampleType: **MSD**	TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**	BatchID: **256272**	Analysis Date: **02/23/2018**	Seq No: **8039637**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	55.33	10	100.0		55.3	31.5	120	55.61	0.505	28.5	
Surr: 2,4,6-Tribromophenol	65.16	0	100.0		65.2	51.4	138	71.94	0	0	
Surr: 2-Fluorobiphenyl	39.75	0	50.00		79.5	44.6	119	41.67	0	0	
Surr: 2-Fluorophenol	64.97	0	100.0		65.0	27.2	120	67.30	0	0	
Surr: 4-Terphenyl-d14	45.81	0	50.00		91.6	47.1	136	48.68	0	0	
Surr: Nitrobenzene-d5	43.32	0	50.00		86.6	40.7	119	44.06	0	0	
Surr: Phenol-d5	55.64	0	100.0		55.6	18.1	120	56.76	0	0	

Client: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802J52

ANALYTICAL QC SUMMARY REPORT

BatchID: 256429

Sample ID: **MB-256429** Client ID: Units: **mg/L** Prep Date: **02/26/2018** Run No: **364106**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010D** BatchID: **256429** Analysis Date: **02/27/2018** Seq No: **8047298**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	0.0200									
Arsenic	BRL	0.0500									
Barium	BRL	0.0200									
Beryllium	BRL	0.0100									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Copper	BRL	0.0100									
Iron	BRL	0.100									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Zinc	BRL	0.0200									

Sample ID: **LCS-256429** Client ID: Units: **mg/L** Prep Date: **02/26/2018** Run No: **364106**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010D** BatchID: **256429** Analysis Date: **02/27/2018** Seq No: **8047299**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9507	0.0200	1.000		95.1	80	120				
Arsenic	0.9306	0.0500	1.000		93.1	80	120				
Barium	0.9251	0.0200	1.000		92.5	80	120				
Beryllium	0.9190	0.0100	1.000		91.9	80	120				
Cadmium	0.9251	0.0050	1.000		92.5	80	120				
Chromium	0.9104	0.0100	1.000		91.0	80	120				
Copper	0.9029	0.0100	1.000		90.3	80	120				
Iron	9.018	0.100	10.00		90.2	80	120				
Lead	0.9400	0.0100	1.000		94.0	80	120				
Nickel	0.9263	0.0200	1.000		92.6	80	120				
Zinc	0.9137	0.0200	1.000		91.4	80	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802J52

ANALYTICAL QC SUMMARY REPORT

BatchID: 256429

Sample ID: **1802M03-001AMS** Client ID:
SampleType: **MS** TestCode: **METALS, TOTAL SW6010D**
Units: **mg/L** Prep Date: **02/26/2018** Run No: **364106**
BatchID: **256429** Analysis Date: **02/27/2018** Seq No: **8047303**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9706	0.0200	1.000		97.1	75	125				
Arsenic	0.9507	0.0500	1.000		95.1	75	125				
Barium	1.554	0.0200	1.000	0.5781	97.6	75	125				
Beryllium	0.9344	0.0100	1.000		93.4	75	125				
Cadmium	0.9491	0.0050	1.000		94.9	75	125				
Chromium	0.9291	0.0100	1.000		92.9	75	125				
Copper	0.9376	0.0100	1.000	0.004954	93.3	75	125				
Iron	9.182	0.100	10.00		91.8	75	125				
Lead	0.9564	0.0100	1.000		95.6	75	125				
Nickel	0.9532	0.0200	1.000	0.01018	94.3	75	125				
Zinc	4.384	0.0200	1.000	3.425	95.9	75	125				

Sample ID: **1802M03-001AMSD** Client ID:
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010D**
Units: **mg/L** Prep Date: **02/26/2018** Run No: **364106**
BatchID: **256429** Analysis Date: **02/27/2018** Seq No: **8047306**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9296	0.0200	1.000		93.0	75	125	0.9706	4.31	20	
Arsenic	0.9209	0.0500	1.000		92.1	75	125	0.9507	3.19	20	
Barium	1.492	0.0200	1.000	0.5781	91.4	75	125	1.554	4.09	20	
Beryllium	0.9105	0.0100	1.000		91.1	75	125	0.9344	2.59	20	
Cadmium	0.9190	0.0050	1.000		91.9	75	125	0.9491	3.22	20	
Chromium	0.9021	0.0100	1.000		90.2	75	125	0.9291	2.95	20	
Copper	0.9033	0.0100	1.000	0.004954	89.8	75	125	0.9376	3.73	20	
Iron	8.913	0.100	10.00		89.1	75	125	9.182	2.97	20	
Lead	0.9252	0.0100	1.000		92.5	75	125	0.9564	3.32	20	
Nickel	0.9223	0.0200	1.000	0.01018	91.2	75	125	0.9532	3.29	20	
Zinc	4.217	0.0200	1.000	3.425	79.2	75	125	4.384	3.90	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802J52

ANALYTICAL QC SUMMARY REPORT

BatchID: 256492

Sample ID: **MB-256492**	Client ID:			Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **363957**
SampleType: **MBLK**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **256492**	Analysis Date: **02/26/2018**	Seq No: **8043250**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	2.00									

Sample ID: **LCS-256492**	Client ID:			Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **363957**
SampleType: **LCS**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **256492**	Analysis Date: **02/26/2018**	Seq No: **8043251**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	372.0	2.00	372.0		100	70	130				

Sample ID: **1802K30-002HMS**	Client ID:			Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **363957**
SampleType: **MS**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **256492**	Analysis Date: **02/26/2018**	Seq No: **8043288**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	18.00	2.00	18.60		96.8	62.8	125				

Sample ID: **1802K30-002HMSD**	Client ID:			Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **363957**
SampleType: **MSD**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **256492**	Analysis Date: **02/26/2018**	Seq No: **8043290**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	18.40	2.00	18.60		98.9	62.8	125	18.00	2.20	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802J52

ANALYTICAL QC SUMMARY REPORT

BatchID: 256494

Sample ID: **MB-256494**	Client ID:				Units: **mg/L**		Prep Date: **02/26/2018**		Run No: **363959**
SampleType: **MBLK**	TestCode: **Cyanide SW9014**				BatchID: **256494**		Analysis Date: **02/26/2018**		Seq No: **8043349**

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

Sample ID: **LCS-256494**	Client ID:				Units: **mg/L**		Prep Date: **02/26/2018**		Run No: **363959**
SampleType: **LCS**	TestCode: **Cyanide SW9014**				BatchID: **256494**		Analysis Date: **02/26/2018**		Seq No: **8043350**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2460	0.010	0.2500		98.4	85	115				

Sample ID: **1802K30-002FMS**	Client ID:				Units: **mg/L**		Prep Date: **02/26/2018**		Run No: **363959**
SampleType: **MS**	TestCode: **Cyanide SW9014**				BatchID: **256494**		Analysis Date: **02/26/2018**		Seq No: **8043368**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2520	0.010	0.2500		101	70	130				

Sample ID: **1802K30-002FMSD**	Client ID:				Units: **mg/L**		Prep Date: **02/26/2018**		Run No: **363959**
SampleType: **MSD**	TestCode: **Cyanide SW9014**				BatchID: **256494**		Analysis Date: **02/26/2018**		Seq No: **8043369**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2550	0.010	0.2500		102	70	130	0.2520	1.18	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802J52

ANALYTICAL QC SUMMARY REPORT

BatchID: 256498

Sample ID: **MB-256498**	Client ID:			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364180**
SampleType: **MBLK**	TestCode: **Mercury, Total SW7470A**			BatchID: **256498**	Analysis Date: **02/28/2018**	Seq No: **8049166**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020									

Sample ID: **LCS-256498**	Client ID:			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364180**
SampleType: **LCS**	TestCode: **Mercury, Total SW7470A**			BatchID: **256498**	Analysis Date: **02/28/2018**	Seq No: **8049167**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003980	0.00020	0.0040	0.00007578	97.6	80	120				

Sample ID: **1802J52-001GMS**	Client ID: **MW-112D-20180220-01**			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364180**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**			BatchID: **256498**	Analysis Date: **02/28/2018**	Seq No: **8049172**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004030	0.00020	0.0040	0.00008264	98.7	70	130				

Sample ID: **1802K33-001EMS**	Client ID:			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364180**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**			BatchID: **256498**	Analysis Date: **02/28/2018**	Seq No: **8049169**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003976	0.00020	0.0040		99.4	70	130				

Sample ID: **1802K33-001EMSD**	Client ID:			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364180**
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**			BatchID: **256498**	Analysis Date: **02/28/2018**	Seq No: **8049170**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003931	0.00020	0.0040		98.3	70	130	0.003976	1.14	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802J52

ANALYTICAL QC SUMMARY REPORT

BatchID: 256501

Sample ID: **MB-256501** Client ID: Units: **ug/L** Prep Date: **02/24/2018** Run No: **363862**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256501** Analysis Date: **02/24/2018** Seq No: **8043626**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	5.0									
Carbon disulfide	BRL	5.0									
Ethylbenzene	BRL	5.0									
Toluene	BRL	5.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	48.54	0	50.00		97.1	68	127				
Surr: Dibromofluoromethane	50.83	0	50.00		102	84.4	122				
Surr: Toluene-d8	55.62	0	50.00		111	80.1	116				

Sample ID: **LCS-256501** Client ID: Units: **ug/L** Prep Date: **02/24/2018** Run No: **363862**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256501** Analysis Date: **02/24/2018** Seq No: **8043652**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	44.16	5.0	50.00		88.3	73.7	126				
Toluene	47.01	5.0	50.00		94.0	76.8	125				
Surr: 4-Bromofluorobenzene	49.40	0	50.00		98.8	68	127				
Surr: Dibromofluoromethane	51.21	0	50.00		102	84.4	122				
Surr: Toluene-d8	55.49	0	50.00		111	80.1	116				

Sample ID: **1802J52-003AMS** Client ID: **MW-10-20180221-01** Units: **ug/L** Prep Date: **02/24/2018** Run No: **364038**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256501** Analysis Date: **02/27/2018** Seq No: **8046391**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	41.03	5.0	50.00		82.1	66.1	137				
Toluene	40.31	5.0	50.00		80.6	63.8	141				
Surr: 4-Bromofluorobenzene	45.54	0	50.00		91.1	68	127				
Surr: Dibromofluoromethane	51.73	0	50.00		103	84.4	122				
Surr: Toluene-d8	50.41	0	50.00		101	80.1	116				

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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802J52

ANALYTICAL QC SUMMARY REPORT

BatchID: 256501

Sample ID: **1802J52-003AMSD** Client ID: **MW-10-20180221-01** Units: **ug/L** Prep Date: **02/24/2018** Run No: **364038**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256501** Analysis Date: **02/27/2018** Seq No: **8046392**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	42.60	5.0	50.00		85.2	66.1	137	41.03	3.75	20	
Toluene	41.83	5.0	50.00		83.7	63.8	141	40.31	3.70	20	
Surr: 4-Bromofluorobenzene	45.23	0	50.00		90.5	68	127	45.54	0	0	
Surr: Dibromofluoromethane	51.12	0	50.00		102	84.4	122	51.73	0	0	
Surr: Toluene-d8	50.50	0	50.00		101	80.1	116	50.41	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802J52

ANALYTICAL QC SUMMARY REPORT

BatchID: R363674

Sample ID: **MB-R363674**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363674**	
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**				BatchID: **R363674**		Analysis Date: **02/21/2018**		Seq No: **8035702**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R363674**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363674**	
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**				BatchID: **R363674**		Analysis Date: **02/21/2018**		Seq No: **8035700**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.054	0.25	5.000		101	90	110				
Sulfate	25.33	1.0	25.00		101	90	110				

Sample ID: **1802J08-001IMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363674**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R363674**		Analysis Date: **02/21/2018**		Seq No: **8035717**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.620	0.25	5.000		92.4	90	110				
Sulfate	27.10	1.0	25.00	3.319	95.1	90	110				

Sample ID: **1802J08-005IMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363674**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R363674**		Analysis Date: **02/21/2018**		Seq No: **8035719**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.091	0.25	5.000	0.3430	95.0	90	110				
Sulfate	51.79	1.0	25.00	30.33	85.8	90	110				S

Sample ID: **1802J08-001IMSD**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363674**	
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**				BatchID: **R363674**		Analysis Date: **02/21/2018**		Seq No: **8035718**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.675	0.25	5.000		93.5	90	110	4.620	1.18	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802J52

ANALYTICAL QC SUMMARY REPORT

BatchID: R363674

Sample ID: **1802J08-001IMSD** Client ID:
SampleType: **MSD** TestCode: **ION SCAN SW9056A**
Units: **mg/L** Prep Date:
BatchID: **R363674** Analysis Date: **02/21/2018**
Run No: **363674**
Seq No: **8035718**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	25.01	1.0	25.00	3.319	86.7	90	110	27.10	8.05	20	S

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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802J52

ANALYTICAL QC SUMMARY REPORT

BatchID: R363915

Sample ID: **MB-R363915**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **MBLK**	TestCode: **Ferrous Iron**				BatchID: **R363915**		Analysis Date: **02/21/2018**		Seq No: **8042203**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R363915**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **LCS**	TestCode: **Ferrous Iron**				BatchID: **R363915**		Analysis Date: **02/21/2018**		Seq No: **8042204**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5060	0.100	0.5000		101	85	115				

Sample ID: **1802J52-001IMS**	Client ID: **MW-112D-20180220-01**				Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **MS**	TestCode: **Ferrous Iron**				BatchID: **R363915**		Analysis Date: **02/21/2018**		Seq No: **8042224**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5170	0.100	0.5000		103	80	120				

Sample ID: **1802K30-002GMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **MS**	TestCode: **Ferrous Iron**				BatchID: **R363915**		Analysis Date: **02/22/2018**		Seq No: **8042229**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	9.820	1.00	5.000	4.480	107	80	120				

Sample ID: **1802J52-001IMSD**	Client ID: **MW-112D-20180220-01**				Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **MSD**	TestCode: **Ferrous Iron**				BatchID: **R363915**		Analysis Date: **02/21/2018**		Seq No: **8042226**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.4970	0.100	0.5000		99.4	80	120	0.5170	3.94	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802J52

ANALYTICAL QC SUMMARY REPORT

BatchID: R363915

Sample ID: **1802K30-002GMSD** Client ID:
SampleType: **MSD** TestCode: **Ferrous Iron**
Units: **mg/L** Prep Date: Run No: **363915**
BatchID: **R363915** Analysis Date: **02/22/2018** Seq No: **8042231**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	9.950	1.00	5.000	4.480	109	80	120	9.820	1.32	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.

March 09, 2018

Adria Reimer
ERM-Southeast

3200 Windy Hill Rd
Atlanta GA 30339

RE: AGLC-Macon

Dear Adria Reimer: Order No: 1802K30

Analytical Environmental Services, Inc. received 4 samples on 2/22/2018 9:05:00 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's accreditations are as follows:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.
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.

Sincerely,

Mirzeta Kararic

Mirzeta Kararic

Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

AES

CHAIN OF CUSTODY

Work Order: 1802K30

Date: 2/21/2018 Page 1 of 1

COMPANY:	ADDRESS:
ERM	3200 Windy Hill Rd. SE Suite 1500W Atlanta GA. 30339
PHONE: 678-486-2700	EMAIL: Adria.Reimer@erm.com
SAMPLED BY: A. Ellis & M. Thomas	SIGNATURE:

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	ANALYSIS REQUESTED: SVOCs	VOCs	Dissolved Gases	Methane, Total Metals, Mercury, Total Cyanide	Ferrous Iron	Sulfide, Nitrate/Sulfate					PRESERVATION (see codes): 1	H+I	O	H+I	N+I	SH	1	SH	1					REMARKS	Number of Containers
1	MW-08D-20180221-01	2/21/18	1116	✓		GW	2	2	2	2	1	1	1	1	1															13
2	MW-22D-20180221-01	2/21/18	1305	✓		GW	6	6	6	6	3	3	3	3	3															39
3	TB-5-20180221-01	2/21/18	—	✓		W		2																					In MS/MSD cooler	2
4	TB-6-20180221-01	2/21/18	—	✓		W		2																					In Sample cooler	2
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														
13																														
14																														

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1.	2/21/18 1918	1 Monique A.	2/22/18 9:05 am
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
(client) FedEx UPS US mail courier Greyhound
other: _____

PROJECT INFORMATION

PROJECT NAME: AGL - Macon
PROJECT #: 0366660
SITE ADDRESS: 137 Mulberry St Macon GA
SEND REPORT TO: Adria.Reimer@erm.com
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers: 56

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

STATE PROGRAM (if any): GA
E-mail? [x] Fax? [ ]
DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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: 9-Mar-18

Client: ERM-Southeast
Project: AGLC-Macon
Lab ID: 1802K30

Case Narrative

PAH Analysis by Method 8270D-SIM:

Matrix spike and matrix spike duplicate analyses were not performed with Batch 256248 due to insufficient sample volume.

Ferrous Iron by SM3500Fe-B:

Method 3500Fe-B as listed in Standard Methods for the Examination of Water and Wastewater 22nd Edition is applicable for analyzing Ferrous Iron in the field. Samples were analyzed in the laboratory which is a deviation from the method.

Analytical Environmental Services, Inc **Date:** 9-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-08D-20180221-01
Project Name:	AGLC-Macon	**Collection Date:**	2/21/2018 11:16:00 AM
Lab ID:	1802K30-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256510	1	02/27/2018 04:16	NP
Carbon disulfide	BRL	5.0		ug/L	256510	1	02/27/2018 04:16	NP
Ethylbenzene	BRL	5.0		ug/L	256510	1	02/27/2018 04:16	NP
Toluene	BRL	5.0		ug/L	256510	1	02/27/2018 04:16	NP
Xylenes, Total	BRL	5.0		ug/L	256510	1	02/27/2018 04:16	NP
Surr: 4-Bromofluorobenzene	96.6	68-127		%REC	256510	1	02/27/2018 04:16	NP
Surr: Dibromofluoromethane	98.3	84.4-122		%REC	256510	1	02/27/2018 04:16	NP
Surr: Toluene-d8	100	80.1-116		%REC	256510	1	02/27/2018 04:16	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256492	1	02/26/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256248	1	02/23/2018 13:16	YH
Acenaphthylene	BRL	1.0		ug/L	256248	1	02/23/2018 13:16	YH
Acenaphthene	BRL	0.50		ug/L	256248	1	02/23/2018 13:16	YH
Fluorene	BRL	0.10		ug/L	256248	1	02/23/2018 13:16	YH
Phenanthrene	BRL	0.050		ug/L	256248	1	02/23/2018 13:16	YH
Anthracene	BRL	0.050		ug/L	256248	1	02/23/2018 13:16	YH
Fluoranthene	BRL	0.10		ug/L	256248	1	02/23/2018 13:16	YH
Pyrene	0.052	0.050		ug/L	256248	1	02/23/2018 13:16	YH
Benz(a)anthracene	BRL	0.050		ug/L	256248	1	02/23/2018 13:16	YH
Chrysene	BRL	0.050		ug/L	256248	1	02/23/2018 13:16	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256248	1	02/23/2018 13:16	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256248	1	02/23/2018 13:16	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256248	1	02/23/2018 13:16	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256248	1	02/23/2018 13:16	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256248	1	02/23/2018 13:16	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256248	1	02/23/2018 13:16	YH
Surr: 4-Terphenyl-d14	108	59.9-128		%REC	256248	1	02/23/2018 13:16	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256350	1	02/23/2018 17:32	YH
2-Methylphenol	BRL	10		ug/L	256350	1	02/23/2018 17:32	YH
3,4-Methylphenol	BRL	10		ug/L	256350	1	02/23/2018 17:32	YH
Phenol	BRL	10		ug/L	256350	1	02/23/2018 17:32	YH
Surr: 2,4,6-Tribromophenol	92.9	51.4-138		%REC	256350	1	02/23/2018 17:32	YH
Surr: 2-Fluorobiphenyl	82.7	44.6-119		%REC	256350	1	02/23/2018 17:32	YH
Surr: 2-Fluorophenol	72.5	27.2-120		%REC	256350	1	02/23/2018 17:32	YH
Surr: 4-Terphenyl-d14	109	47.1-136		%REC	256350	1	02/23/2018 17:32	YH
Surr: Nitrobenzene-d5	82.6	40.7-119		%REC	256350	1	02/23/2018 17:32	YH

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:** 9-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-08D-20180221-01
Project Name:	AGLC-Macon	**Collection Date:**	2/21/2018 11:16:00 AM
Lab ID:	1802K30-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	58.4	18.1-120		%REC	256350	1	02/23/2018 17:32	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256493	1	02/27/2018 18:24	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363962	1	02/22/2018 14:31	MP
Sulfate	5.2	1.0		mg/L	R363962	1	02/22/2018 14:31	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	380	8.0		ug/L	256463	2	02/26/2018 16:00	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363915	1	02/22/2018 10:00	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	BRL	0.010		mg/L	256494	1	02/27/2018 15:00	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256423	1	02/27/2018 17:20	JR
Arsenic	BRL	0.0500		mg/L	256423	1	02/27/2018 17:20	JR
Barium	0.659	0.0200		mg/L	256423	1	02/27/2018 17:20	JR
Beryllium	BRL	0.0100		mg/L	256423	1	02/27/2018 17:20	JR
Cadmium	BRL	0.0050		mg/L	256423	1	02/27/2018 17:20	JR
Chromium	BRL	0.0100		mg/L	256423	1	02/27/2018 17:20	JR
Copper	BRL	0.0100		mg/L	256423	1	02/27/2018 17:20	JR
Iron	1.15	0.100		mg/L	256423	1	02/27/2018 17:20	JR
Lead	BRL	0.0100		mg/L	256423	1	02/27/2018 17:20	JR
Nickel	0.0234	0.0200		mg/L	256423	1	02/27/2018 17:20	JR
Zinc	BRL	0.0200		mg/L	256423	1	02/27/2018 17:20	JR

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:** 9-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-22D-20180221-01
Project Name:	AGLC-Macon	**Collection Date:**	2/21/2018 1:05:00 PM
Lab ID:	1802K30-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256510	1	02/27/2018 04:40	NP
Carbon disulfide	BRL	5.0		ug/L	256510	1	02/27/2018 04:40	NP
Ethylbenzene	BRL	5.0		ug/L	256510	1	02/27/2018 04:40	NP
Toluene	BRL	5.0		ug/L	256510	1	02/27/2018 04:40	NP
Xylenes, Total	BRL	5.0		ug/L	256510	1	02/27/2018 04:40	NP
Surr: 4-Bromofluorobenzene	94.7	68-127		%REC	256510	1	02/27/2018 04:40	NP
Surr: Dibromofluoromethane	99	84.4-122		%REC	256510	1	02/27/2018 04:40	NP
Surr: Toluene-d8	102	80.1-116		%REC	256510	1	02/27/2018 04:40	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256492	1	02/26/2018 12:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256355	1	02/26/2018 12:15	YH
Acenaphthylene	BRL	1.0		ug/L	256355	1	02/26/2018 12:15	YH
Acenaphthene	BRL	0.50		ug/L	256355	1	02/26/2018 12:15	YH
Fluorene	BRL	0.10		ug/L	256355	1	02/26/2018 12:15	YH
Phenanthrene	BRL	0.050		ug/L	256355	1	02/26/2018 12:15	YH
Anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 12:15	YH
Fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 12:15	YH
Pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 12:15	YH
Benz(a)anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 12:15	YH
Chrysene	BRL	0.050		ug/L	256355	1	02/26/2018 12:15	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 12:15	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256355	1	02/26/2018 12:15	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 12:15	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 12:15	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256355	1	02/26/2018 12:15	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256355	1	02/26/2018 12:15	YH
Surr: 4-Terphenyl-d14	88.6	59.9-128		%REC	256355	1	02/26/2018 12:15	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256350	1	02/23/2018 17:59	YH
2-Methylphenol	BRL	10		ug/L	256350	1	02/23/2018 17:59	YH
3,4-Methylphenol	BRL	10		ug/L	256350	1	02/23/2018 17:59	YH
Phenol	BRL	10		ug/L	256350	1	02/23/2018 17:59	YH
Surr: 2,4,6-Tribromophenol	83.6	51.4-138		%REC	256350	1	02/23/2018 17:59	YH
Surr: 2-Fluorobiphenyl	69.3	44.6-119		%REC	256350	1	02/23/2018 17:59	YH
Surr: 2-Fluorophenol	57.2	27.2-120		%REC	256350	1	02/23/2018 17:59	YH
Surr: 4-Terphenyl-d14	97.6	47.1-136		%REC	256350	1	02/23/2018 17:59	YH
Surr: Nitrobenzene-d5	68.6	40.7-119		%REC	256350	1	02/23/2018 17:59	YH

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:** 9-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-22D-20180221-01
Project Name:	AGLC-Macon	**Collection Date:**	2/21/2018 1:05:00 PM
Lab ID:	1802K30-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	44	18.1-120		%REC	256350	1	02/23/2018 17:59	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256493	1	02/27/2018 18:12	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363962	1	02/22/2018 15:38	MP
Sulfate	3.3	1.0		mg/L	R363962	1	02/22/2018 15:38	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	18	4.0		ug/L	256463	1	02/26/2018 14:03	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	4.48	1.00		mg/L	R363915	10	02/22/2018 10:00	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	BRL	0.010		mg/L	256494	1	02/26/2018 16:30	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256423	1	02/27/2018 16:51	JR
Arsenic	BRL	0.0500		mg/L	256423	1	02/27/2018 16:51	JR
Barium	1.38	0.0200		mg/L	256423	1	02/27/2018 16:51	JR
Beryllium	BRL	0.0100		mg/L	256423	1	02/27/2018 16:51	JR
Cadmium	BRL	0.0050		mg/L	256423	1	02/27/2018 16:51	JR
Chromium	BRL	0.0100		mg/L	256423	1	02/27/2018 16:51	JR
Copper	BRL	0.0100		mg/L	256423	1	02/27/2018 16:51	JR
Iron	7.61	0.100		mg/L	256423	1	02/27/2018 16:51	JR
Lead	BRL	0.0100		mg/L	256423	1	02/27/2018 16:51	JR
Nickel	0.0296	0.0200		mg/L	256423	1	02/27/2018 16:51	JR
Zinc	BRL	0.0200		mg/L	256423	1	02/27/2018 16:51	JR

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:** 9-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-5-20180221-01
Project Name:	AGLC-Macon	**Collection Date:**	2/21/2018
Lab ID:	1802K30-003	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256510	1	02/26/2018 23:26	NP
Carbon disulfide	BRL	5.0		ug/L	256510	1	02/26/2018 23:26	NP
Ethylbenzene	BRL	5.0		ug/L	256510	1	02/26/2018 23:26	NP
Toluene	BRL	5.0		ug/L	256510	1	02/26/2018 23:26	NP
Xylenes, Total	BRL	5.0		ug/L	256510	1	02/26/2018 23:26	NP
Surr: 4-Bromofluorobenzene	97.7	68-127		%REC	256510	1	02/26/2018 23:26	NP
Surr: Dibromofluoromethane	98.8	84.4-122		%REC	256510	1	02/26/2018 23:26	NP
Surr: Toluene-d8	101	80.1-116		%REC	256510	1	02/26/2018 23:26	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:** 9-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-6-20180221-01
Project Name:	AGLC-Macon	**Collection Date:**	2/21/2018
Lab ID:	1802K30-004	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256510	1	02/26/2018 23:50	NP
Carbon disulfide	BRL	5.0		ug/L	256510	1	02/26/2018 23:50	NP
Ethylbenzene	BRL	5.0		ug/L	256510	1	02/26/2018 23:50	NP
Toluene	BRL	5.0		ug/L	256510	1	02/26/2018 23:50	NP
Xylenes, Total	BRL	5.0		ug/L	256510	1	02/26/2018 23:50	NP
Surr: 4-Bromofluorobenzene	98.1	68-127		%REC	256510	1	02/26/2018 23:50	NP
Surr: Dibromofluoromethane	99	84.4-122		%REC	256510	1	02/26/2018 23:50	NP
Surr: Toluene-d8	103	80.1-116		%REC	256510	1	02/26/2018 23:50	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

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

March 8, 2018

Mirzeta Kararic
Analytical Environmental Services, Inc.
3785 Presidential Parkway
Suite 111
Atlanta, GA 30340

RE: **1802K30**

Pace Workorder: 25816

Dear Mirzeta Kararic:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, February 28, 2018. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Ruth Welsh 03/08/2018
Ruth.Welsh@pacelabs.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email PAESfeedback@pacelabs.com.

Total Number of Pages 14

Pace Analytical Energy Services LLC
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LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water
Accreditor:	West Virginia Department of Environmental Protection, Division of Water and Waste Management
Accreditation ID:	395
Scope:	Non-Potable Water
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	State of Virginia
Accreditation ID:	460201
Scope:	Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

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SAMPLE SUMMARY

Workorder: 25816 1802K30

Lab ID	Sample ID	Matrix	Date Collected	Date Received
258160001	MW-08D-20180221-01	Water	2/21/2018 11:16	2/28/2018 11:45
258160002	MW-22D-20180221-01	Water	2/21/2018 13:05	2/28/2018 11:45
258160003	MW-22D-20180221-01 MS	Water	2/21/2018 13:05	2/28/2018 11:45
258160004	MW-22D-20180221-01 MSD	Water	2/21/2018 13:05	2/28/2018 11:45

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ANALYTICAL RESULTS

Workorder: 25816 1802K30

Lab ID: **258160001** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **MW-08D-20180221-01** Date Collected: 2/21/2018 11:16

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**8.4**	mg/l	5.0	0.32	1	3/3/2018 12:46	TD	n,M5
Oxygen	**4.1**	mg/l	0.50	0.12	1	3/3/2018 12:46	TD	n
Nitrogen	**18**	mg/l	2.0	0.34	1	3/3/2018 12:46	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/3/2018 12:46	TD	n

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ANALYTICAL RESULTS

Workorder: 25816 1802K30

Lab ID: **258160002** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **MW-22D-20180221-01** Date Collected: 2/21/2018 13:05

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**41**	mg/l	5.0	0.32	1	3/3/2018 12:59	TD	n,M5
Oxygen	**2.4**	mg/l	0.50	0.12	1	3/3/2018 12:59	TD	n
Nitrogen	**18**	mg/l	2.0	0.34	1	3/3/2018 12:59	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/3/2018 12:59	TD	n

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ANALYTICAL RESULTS

Workorder: 25816 1802K30

Lab ID: **258160003** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **MW-22D-20180221-01 MS** Date Collected: 2/21/2018 13:05

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**170**	mg/l	5.0	0.32	1	3/3/2018 13:12	TD	n,M5
Oxygen	**12**	mg/l	0.50	0.12	1	3/3/2018 13:12	TD	n
Nitrogen	**140**	mg/l	2.0	0.34	1	3/3/2018 13:12	TD	n
Carbon Monoxide	**2.1**	mg/l	1.0	0.087	1	3/3/2018 13:12	TD	n

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ANALYTICAL RESULTS

Workorder: 25816 1802K30

Lab ID: **258160004** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **MW-22D-20180221-01 MSD** Date Collected: 2/21/2018 13:05

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**190**	mg/l	5.0	0.32	1	3/3/2018 13:24	TD	n,M5
Oxygen	**12**	mg/l	0.50	0.12	1	3/3/2018 13:24	TD	n
Nitrogen	**140**	mg/l	2.0	0.34	1	3/3/2018 13:24	TD	n
Carbon Monoxide	**2.1**	mg/l	1.0	0.087	1	3/3/2018 13:24	TD	n

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 25816 1802K30

DEFINITIONS/QUALIFIERS

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.
M5	The matrix spike duplicate sample recovery was outside laboratory control limits.

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QUALITY CONTROL DATA

Workorder: 25816 1802K30

QC Batch: DISG/6693 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 258160001, 258160002, 258160003, 258160004

METHOD BLANK: 54010

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Carbon Dioxide	mg/l	<5.0	5.0	n,M5
Oxygen	mg/l	<0.50	0.50	n
Nitrogen	mg/l	<2.0	2.0	n
Carbon Monoxide	mg/l	<1.0	1.0	n

LABORATORY CONTROL SAMPLE & LCSD: 54012 54014

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Carbon Dioxide	mg/l	120	140	140	118	116	80-120	1.6	20	M5,n
Oxygen	mg/l	11	10	10	92	93	80-120	0.71	20	n
Nitrogen	mg/l	140	120	120	90	90	80-120	0.17	20	n
Carbon Monoxide	mg/l	2	2.1	2.1	105	107	80-120	1.1	20	n

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54015 54016 Original: 258140001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK											
Carbon Dioxide	mg/l	57	120	200	210	125	133	70-130	4.4	20	n,M5
Oxygen	mg/l	2.3	11	12	14	82	102	70-130	18	20	n
Nitrogen	mg/l	18	140	140	130	87	84	70-130	3.3	20	n
Carbon Monoxide	mg/l	0	2	2.1	2.0	104	102	70-130	2.2	20	n

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54017 54018 Original: 258160002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK											
Carbon Dioxide	mg/l	41	120	170	190	112	126	70-130	9	20	n,M5
Oxygen	mg/l	2.4	11	12	12	82	83	70-130	1.3	20	n
Nitrogen	mg/l	18	140	140	140	86	85	70-130	1	20	n

CERTIFICATE OF ANALYSIS

Pace Analytical Energy Services LLC
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Pittsburgh, PA 15238
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QUALITY CONTROL DATA

Workorder: 25816 1802K30

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54017 54018 Original: 258160002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Carbon Monoxide	mg/l	0	2	2.1	2.1	103	105	70-130	1.3	20	n

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 25816 1802K30

QUALITY CONTROL PARAMETER QUALIFIERS

M5	The matrix spike duplicate sample recovery was outside laboratory control limits.
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 25816 1802K30

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
258160001	MW-08D-20180221-01			AM20GAX	DISG/6693
258160002	MW-22D-20180221-01			AM20GAX	DISG/6693
258160003	MW-22D-20180221-01 MS			AM20GAX	DISG/6693
258160004	MW-22D-20180221-01 MSD			AM20GAX	DISG/6693

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

4 AES 25816

CHAIN OF CUSTODY

Work Order: _____

Date: _____ Page _____ of _____

COMPANY:	ADDRESS:
PHONE:	EMAIL:
SAMPLED BY:	SIGNATURE:

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	ANALYSIS REQUESTED: O2, N2, CO, CO2	PRESERVATION (see codes)	REMARKS	Number of Containers
1	MW-08D-20180221-01	2/21/18	11:16	X		GW	X			
2	MW-22D-20180221-01	2/21/18	13:05	X		GW	X		Run MS/MSD	
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Andrea Stepp	2/27/18 5:00pm	1. [illegible]	2-28-18 11:45
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

Page 22 of 45

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client FedEx UPS US mail courier Greyhound
other: _____

PROJECT INFORMATION
PROJECT NAME: 180ZK30
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: MKARARIC@AESATLANTA
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

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

STATE PROGRAM (if any): _____
E-mail? ☐ Fax? ☐
DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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

Cooler Receipt Form

Client Name: AES Project: 1802IC30 Lab Work Order: 25816

A. Shipping/Container Information (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other: _____ Air bill Present: (Yes) No

Tracking Number: 7249 3168 6734

Custody Seal on Cooler/Box Present: Yes (No) Seals Intact: Yes No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam Other: _____

Type of Ice: (Wet) Blue None Ice Intact: (Yes) Melted

Cooler Temperature: 1°C Radiation Screened: Yes (No) Chain of Custody Present: (Yes) No

Comments: _____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC			✓	
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected				
Sufficient volume provided	✓			
PAES containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	
Headspace present?	✓			

Comments: _____

Cooler contents examined/received by: _____ Date: 2.28.18

Project Manager Review: _____ Date: 2/28/18

Clear Save as

AES ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **ERM-Southeast** AES Work Order Number: **1802H80**

2. Carrier: FedEx ■ UPS ☐ USPS ☐ Client ☐ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	○	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	○	○		
5.	Custody seals intact on shipping container?	○	○	○		
6.	Temperature blanks present?	○	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	○	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	○	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	○	○	○		
10.	Sampler name and/or signature on COC?	○	○	○		
11.	Were all samples received within holding time?	○	○	○		
12.	TAT marked on the COC?	○	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 2.3 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). TD 2/20/18

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	○	○	○		
17.	Custody seals present on sample containers?	○	○	○		
18.	Custody seals intact on sample containers?	○	○	○		
19.	Do sample container labels match the COC?	○	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	○	○	○		
21.	Were all of the samples listed on the COC received?	○	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	○	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	○	○	○		
24.	Were samples received in appropriate containers?	○	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	○	○	○		
26.	Were trip blanks submitted?	○	○	○	listed on COC ■ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). MDP 2/20/18

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	○	○	○		
29.	Containers meet preservation guidelines?	○	○	○		
30.	Was pH adjusted at Sample Receipt?	○	○	○		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). MDP 2/20/18

Checklist 6.9.17 Rev 2

Locked

Client: ERM-Southeast
Project Name: AGLC-Macon
Lab Order: 1802K30

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802K30-001A	MW-08D-20180221-01	2/21/2018 11:16:00AM	Groundwater	Volatile Organic Compounds by GC/MS		2/26/2018 10:13:00 PM	02/27/2018
1802K30-001B	MW-08D-20180221-01	2/21/2018 11:16:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/22/2018 3:00:00 PM	02/23/2018
1802K30-001B	MW-08D-20180221-01	2/21/2018 11:16:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/23/2018 9:00:00 AM	02/23/2018
1802K30-001D	MW-08D-20180221-01	2/21/2018 11:16:00AM	Groundwater	GC Analysis of Gaseous Samples		2/26/2018 12:39:32 PM	02/26/2018
1802K30-001E	MW-08D-20180221-01	2/21/2018 11:16:00AM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00 AM	02/27/2018
1802K30-001E	MW-08D-20180221-01	2/21/2018 11:16:00AM	Groundwater	TOTAL MERCURY		2/27/2018 1:42:00 PM	02/27/2018
1802K30-001F	MW-08D-20180221-01	2/21/2018 11:16:00AM	Groundwater	Cyanide		2/27/2018 11:15:00 AM	02/27/2018
1802K30-001G	MW-08D-20180221-01	2/21/2018 11:16:00AM	Groundwater	Ferrous Iron			02/22/2018
1802K30-001H	MW-08D-20180221-01	2/21/2018 11:16:00AM	Groundwater	Sulfide by SW9030/9034		2/26/2018 2:20:00 PM	02/26/2018
1802K30-001I	MW-08D-20180221-01	2/21/2018 11:16:00AM	Groundwater	ION SCAN			02/22/2018
1802K30-002A	MW-22D-20180221-01	2/21/2018 1:05:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/26/2018 10:13:00 PM	02/27/2018
1802K30-002B	MW-22D-20180221-01	2/21/2018 1:05:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/23/2018 11:00:00 AM	02/26/2018
1802K30-002B	MW-22D-20180221-01	2/21/2018 1:05:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/23/2018 9:00:00 AM	02/23/2018
1802K30-002D	MW-22D-20180221-01	2/21/2018 1:05:00PM	Groundwater	GC Analysis of Gaseous Samples		2/26/2018 12:39:32 PM	02/26/2018
1802K30-002E	MW-22D-20180221-01	2/21/2018 1:05:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00 AM	02/27/2018
1802K30-002E	MW-22D-20180221-01	2/21/2018 1:05:00PM	Groundwater	TOTAL MERCURY		2/27/2018 1:42:00 PM	02/27/2018
1802K30-002F	MW-22D-20180221-01	2/21/2018 1:05:00PM	Groundwater	Cyanide		2/26/2018 3:40:00 PM	02/26/2018
1802K30-002G	MW-22D-20180221-01	2/21/2018 1:05:00PM	Groundwater	Ferrous Iron			02/22/2018
1802K30-002H	MW-22D-20180221-01	2/21/2018 1:05:00PM	Groundwater	Sulfide by SW9030/9034		2/26/2018 11:10:00 AM	02/26/2018
1802K30-002I	MW-22D-20180221-01	2/21/2018 1:05:00PM	Groundwater	ION SCAN			02/22/2018
1802K30-003A	TB-5-20180221-01	2/21/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		2/26/2018 10:13:00 PM	02/26/2018
1802K30-004A	TB-6-20180221-01	2/21/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		2/26/2018 10:13:00 PM	02/26/2018

Client: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K30

ANALYTICAL QC SUMMARY REPORT

BatchID: 256248

Sample ID: **MB-256248** Client ID: Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
SampleType: **MBLK** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037285**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	BRL	0.50									
Acenaphthylene	BRL	1.0									
Anthracene	BRL	0.050									
Benz(a)anthracene	BRL	0.050									
Benzo(a)pyrene	BRL	0.050									
Benzo(b)fluoranthene	BRL	0.10									
Benzo(g,h,i)perylene	BRL	0.10									
Benzo(k)fluoranthene	BRL	0.050									
Chrysene	BRL	0.050									
Dibenz(a,h)anthracene	BRL	0.10									
Fluoranthene	BRL	0.10									
Fluorene	BRL	0.10									
Indeno(1,2,3-cd)pyrene	BRL	0.050									
Naphthalene	BRL	0.50									
Phenanthrene	BRL	0.050									
Pyrene	BRL	0.050									
Surr: 4-Terphenyl-d14	2.265	0	2.000		113	59.9	128				

Sample ID: **LCS-256248** Client ID: Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037286**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	2.000	0.50	2.000		100.0	64.7	120				
Acenaphthylene	2.092	1.0	2.000		105	63.2	120				
Anthracene	2.018	0.050	2.000		101	69.3	125				
Benz(a)anthracene	2.343	0.050	2.000		117	71.1	141				
Benzo(a)pyrene	2.115	0.050	2.000		106	67.2	131				

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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K30

ANALYTICAL QC SUMMARY REPORT

BatchID: 256248

Sample ID: **LCS-256248** Client ID: Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037286**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(b)fluoranthene	2.239	0.10	2.000		112	66.1	134				
Benzo(g,h,i)perylene	1.418	0.10	2.000		70.9	66.1	128				
Benzo(k)fluoranthene	2.122	0.050	2.000		106	67.7	133				
Chrysene	2.383	0.050	2.000		119	71.3	137				
Dibenz(a,h)anthracene	1.498	0.10	2.000		74.9	59.7	125				
Fluoranthene	2.155	0.10	2.000		108	72.3	129				
Fluorene	2.028	0.10	2.000		101	69.2	120				
Indeno(1,2,3-cd)pyrene	1.547	0.050	2.000		77.4	66.4	127				
Naphthalene	1.849	0.50	2.000		92.5	56.8	120				
Phenanthrene	1.880	0.050	2.000		94.0	70.9	120				
Pyrene	2.353	0.050	2.000		118	68.4	138				
Surr: 4-Terphenyl-d14	2.438	0	2.000		122	59.9	128				

Sample ID: **LCSD-256248** Client ID: Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
SampleType: **LCSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037369**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	2.049	0.50	2.000		102	64.7	120	0	0	20	
Acenaphthylene	2.104	1.0	2.000		105	63.2	120	0	0	18.4	
Anthracene	2.027	0.050	2.000		101	69.3	125	0	0	20.5	
Benz(a)anthracene	2.290	0.050	2.000		115	71.1	141	0	0	18	
Benzo(a)pyrene	2.037	0.050	2.000		102	67.2	131	0	0	33.5	
Benzo(b)fluoranthene	2.146	0.10	2.000		107	66.1	134	0	0	18.4	
Benzo(g,h,i)perylene	1.447	0.10	2.000		72.3	66.1	128	0	0	21.8	
Benzo(k)fluoranthene	2.028	0.050	2.000		101	67.7	133	0	0	20	
Chrysene	2.298	0.050	2.000		115	71.3	137	0	0	18.4	
Dibenz(a,h)anthracene	1.478	0.10	2.000		73.9	59.7	125	0	0	20.6	
Fluoranthene	2.155	0.10	2.000		108	72.3	129	0	0	26.9	

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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K30

ANALYTICAL QC SUMMARY REPORT

BatchID: 256248

Sample ID: **LCSD-256248** Client ID:
SampleType: **LCSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D**
Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037369**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Fluorene	2.055	0.10	2.000		103	69.2	120	0	0	20	
Indeno(1,2,3-cd)pyrene	1.592	0.050	2.000		79.6	66.4	127	0	0	20.4	
Naphthalene	1.907	0.50	2.000		95.4	56.8	120	0	0	21	
Phenanthrene	1.892	0.050	2.000		94.6	70.9	120	0	0	20	
Pyrene	2.346	0.050	2.000		117	68.4	138	0	0	19	
Surr: 4-Terphenyl-d14	2.325	0	2.000		116	59.9	128	0	0	0	

Client: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K30

ANALYTICAL QC SUMMARY REPORT

BatchID: 256350

Sample ID: **MB-256350** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363818**
SampleType: **MBLK** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256350** Analysis Date: **02/23/2018** Seq No: **8041779**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,4-Dimethylphenol	BRL	10									
2-Methylphenol	BRL	10									
3,4-Methylphenol	BRL	10									
Phenol	BRL	10									
Surr: 2,4,6-Tribromophenol	99.05	0	100.0		99.0	51.4	138				
Surr: 2-Fluorobiphenyl	38.78	0	50.00		77.6	44.6	119				
Surr: 2-Fluorophenol	58.62	0	100.0		58.6	27.2	120				
Surr: 4-Terphenyl-d14	54.36	0	50.00		109	47.1	136				
Surr: Nitrobenzene-d5	43.38	0	50.00		86.8	40.7	119				
Surr: Phenol-d5	39.78	0	100.0		39.8	18.1	120				

Sample ID: **LCS-256350** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363818**
SampleType: **LCS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256350** Analysis Date: **02/23/2018** Seq No: **8041780**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	37.20	10	100.0		37.2	26.4	120				
Surr: 2,4,6-Tribromophenol	102.6	0	100.0		103	51.4	138				
Surr: 2-Fluorobiphenyl	43.66	0	50.00		87.3	44.6	119				
Surr: 2-Fluorophenol	56.75	0	100.0		56.8	27.2	120				
Surr: 4-Terphenyl-d14	58.04	0	50.00		116	47.1	136				
Surr: Nitrobenzene-d5	44.87	0	50.00		89.7	40.7	119				
Surr: Phenol-d5	37.43	0	100.0		37.4	18.1	120				

Sample ID: **1802K30-002BMS** Client ID: **MW-22D-20180221-01** Units: **ug/L** Prep Date: **02/23/2018** Run No: **363818**
SampleType: **MS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256350** Analysis Date: **02/24/2018** Seq No: **8041817**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	48.59	10	100.0		48.6	31.5	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K30

ANALYTICAL QC SUMMARY REPORT

BatchID: 256350

Sample ID: **1802K30-002BMS**	Client ID: **MW-22D-20180221-01**	Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363818**
SampleType: **MS**	TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**	BatchID: **256350**	Analysis Date: **02/24/2018**	Seq No: **8041817**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 2,4,6-Tribromophenol	96.09	0	100.0		96.1	51.4	138				
Surr: 2-Fluorobiphenyl	41.02	0	50.00		82.0	44.6	119				
Surr: 2-Fluorophenol	63.41	0	100.0		63.4	27.2	120				
Surr: 4-Terphenyl-d14	54.12	0	50.00		108	47.1	136				
Surr: Nitrobenzene-d5	37.97	0	50.00		75.9	40.7	119				
Surr: Phenol-d5	52.75	0	100.0		52.8	18.1	120				

Sample ID: **1802K30-002BMSD**	Client ID: **MW-22D-20180221-01**	Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363818**
SampleType: **MSD**	TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**	BatchID: **256350**	Analysis Date: **02/24/2018**	Seq No: **8041818**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	51.59	10	100.0		51.6	31.5	120	48.59	5.99	28.5	
Surr: 2,4,6-Tribromophenol	91.81	0	100.0		91.8	51.4	138	96.09	0	0	
Surr: 2-Fluorobiphenyl	40.08	0	50.00		80.2	44.6	119	41.02	0	0	
Surr: 2-Fluorophenol	65.71	0	100.0		65.7	27.2	120	63.41	0	0	
Surr: 4-Terphenyl-d14	51.75	0	50.00		104	47.1	136	54.12	0	0	
Surr: Nitrobenzene-d5	38.90	0	50.00		77.8	40.7	119	37.97	0	0	
Surr: Phenol-d5	52.94	0	100.0		52.9	18.1	120	52.75	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K30

ANALYTICAL QC SUMMARY REPORT

BatchID: 256355

Sample ID: **MB-256355** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363819**
SampleType: **MBLK** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256355** Analysis Date: **02/26/2018** Seq No: **8042065**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	BRL	0.50									
Acenaphthylene	BRL	1.0									
Anthracene	BRL	0.050									
Benz(a)anthracene	BRL	0.050									
Benzo(a)pyrene	BRL	0.050									
Benzo(b)fluoranthene	BRL	0.10									
Benzo(g,h,i)perylene	BRL	0.10									
Benzo(k)fluoranthene	BRL	0.050									
Chrysene	BRL	0.050									
Dibenz(a,h)anthracene	BRL	0.10									
Fluoranthene	BRL	0.10									
Fluorene	BRL	0.10									
Indeno(1,2,3-cd)pyrene	BRL	0.050									
Naphthalene	BRL	0.50									
Phenanthrene	BRL	0.050									
Pyrene	BRL	0.050									
Surr: 4-Terphenyl-d14	1.800	0	2.000		90.0	59.9	128				

Sample ID: **LCS-256355** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363819**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256355** Analysis Date: **02/26/2018** Seq No: **8042066**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.715	0.50	2.000		85.7	64.7	120				
Acenaphthylene	1.751	1.0	2.000		87.5	63.2	120				
Anthracene	1.785	0.050	2.000		89.2	69.3	125				
Benz(a)anthracene	1.972	0.050	2.000		98.6	71.1	141				
Benzo(a)pyrene	1.993	0.050	2.000		99.7	67.2	131				
Benzo(b)fluoranthene	1.888	0.10	2.000		94.4	66.1	134				

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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K30

ANALYTICAL QC SUMMARY REPORT

BatchID: 256355

Sample ID: **LCS-256355** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363819**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256355** Analysis Date: **02/26/2018** Seq No: **8042066**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(g,h,i)perylene	1.568	0.10	2.000		78.4	66.1	128				
Benzo(k)fluoranthene	1.982	0.050	2.000		99.1	67.7	133				
Chrysene	2.163	0.050	2.000		108	71.3	137				
Dibenz(a,h)anthracene	1.442	0.10	2.000		72.1	59.7	125				
Fluoranthene	1.885	0.10	2.000		94.3	72.3	129				
Fluorene	1.736	0.10	2.000		86.8	69.2	120				
Indeno(1,2,3-cd)pyrene	1.585	0.050	2.000		79.2	66.4	127				
Naphthalene	1.466	0.50	2.000		73.3	56.8	120				
Phenanthrene	1.700	0.050	2.000		85.0	70.9	120				
Pyrene	2.159	0.050	2.000		108	68.4	138				
Surr: 4-Terphenyl-d14	2.000	0	2.000		100.0	59.9	128				

Sample ID: **1802K30-002BMS** Client ID: **MW-22D-20180221-01** Units: **ug/L** Prep Date: **02/23/2018** Run No: **363819**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256355** Analysis Date: **02/26/2018** Seq No: **8044377**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.434	0.50	2.000		71.7	61.4	120				
Acenaphthylene	1.468	1.0	2.000		73.4	63.9	120				
Anthracene	1.460	0.050	2.000		73.0	65.3	120				
Benz(a)anthracene	1.637	0.050	2.000		81.8	76.7	124				
Benzo(a)pyrene	1.647	0.050	2.000		82.3	58.5	120				
Benzo(b)fluoranthene	1.469	0.10	2.000		73.4	52.6	121				
Benzo(g,h,i)perylene	1.297	0.10	2.000		64.9	44.2	120				
Benzo(k)fluoranthene	1.604	0.050	2.000		80.2	59	120				
Chrysene	1.785	0.050	2.000		89.2	65	122				
Dibenz(a,h)anthracene	1.183	0.10	2.000		59.2	38.2	120				
Fluoranthene	1.570	0.10	2.000		78.5	71.7	118				
Fluorene	1.465	0.10	2.000		73.3	65.6	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K30

ANALYTICAL QC SUMMARY REPORT

BatchID: 256355

Sample ID: **1802K30-002BMS**	Client ID: **MW-22D-20180221-01**			Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363819**
SampleType: **MS**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**			BatchID: **256355**	Analysis Date: **02/26/2018**	Seq No: **8044377**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Indeno(1,2,3-cd)pyrene	1.261	0.050	2.000		63.0	46.6	120				
Naphthalene	1.316	0.50	2.000		65.8	57.3	120				
Phenanthrene	1.387	0.050	2.000		69.3	65.6	120				
Pyrene	1.776	0.050	2.000		88.8	69	121				
Surr: 4-Terphenyl-d14	1.659	0	2.000		83.0	59.9	128				

Sample ID: **1802K30-002BMSD**	Client ID: **MW-22D-20180221-01**			Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363819**
SampleType: **MSD**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**			BatchID: **256355**	Analysis Date: **02/26/2018**	Seq No: **8044378**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.709	0.50	2.000		85.5	61.4	120	1.434	17.5	24.4	
Acenaphthylene	1.734	1.0	2.000		86.7	63.9	120	1.468	16.6	27.9	
Anthracene	1.660	0.050	2.000		83.0	65.3	120	1.460	12.8	26.3	
Benz(a)anthracene	1.885	0.050	2.000		94.3	76.7	124	1.637	14.1	25	
Benzo(a)pyrene	1.889	0.050	2.000		94.5	58.5	120	1.647	13.7	23.5	
Benzo(b)fluoranthene	1.733	0.10	2.000		86.7	52.6	121	1.469	16.5	24	
Benzo(g,h,i)perylene	1.526	0.10	2.000		76.3	44.2	120	1.297	16.2	32.1	
Benzo(k)fluoranthene	1.853	0.050	2.000		92.7	59	120	1.604	14.4	19.6	
Chrysene	2.053	0.050	2.000		103	65	122	1.785	14.0	23	
Dibenz(a,h)anthracene	1.468	0.10	2.000		73.4	38.2	120	1.183	21.5	31.7	
Fluoranthene	1.846	0.10	2.000		92.3	71.7	118	1.570	16.2	23	
Fluorene	1.731	0.10	2.000		86.6	65.6	120	1.465	16.7	25	
Indeno(1,2,3-cd)pyrene	1.517	0.050	2.000		75.8	46.6	120	1.261	18.4	32.4	
Naphthalene	1.573	0.50	2.000		78.6	57.3	120	1.316	17.7	27.2	
Phenanthrene	1.644	0.050	2.000		82.2	65.6	120	1.387	17.0	23.5	
Pyrene	2.085	0.050	2.000		104	69	121	1.776	16.0	23.8	
Surr: 4-Terphenyl-d14	1.873	0	2.000		93.7	59.9	128	1.659	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K30

ANALYTICAL QC SUMMARY REPORT

BatchID: 256423

Sample ID: **MB-256423** Client ID: Units: **mg/L** Prep Date: **02/26/2018** Run No: **364064**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010D** BatchID: **256423** Analysis Date: **02/27/2018** Seq No: **8046178**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	0.0200									
Arsenic	BRL	0.0500									
Barium	BRL	0.0200									
Beryllium	BRL	0.0100									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Copper	BRL	0.0100									
Iron	BRL	0.100									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Zinc	BRL	0.0200									

Sample ID: **LCS-256423** Client ID: Units: **mg/L** Prep Date: **02/26/2018** Run No: **364064**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010D** BatchID: **256423** Analysis Date: **02/27/2018** Seq No: **8046179**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9497	0.0200	1.000		95.0	80	120				
Arsenic	0.9334	0.0500	1.000		93.3	80	120				
Barium	0.9502	0.0200	1.000		95.0	80	120				
Beryllium	0.9026	0.0100	1.000		90.3	80	120				
Cadmium	0.9369	0.0050	1.000		93.7	80	120				
Chromium	0.9127	0.0100	1.000		91.3	80	120				
Copper	0.9025	0.0100	1.000		90.3	80	120				
Iron	8.968	0.100	10.00		89.7	80	120				
Lead	0.9051	0.0100	1.000		90.5	80	120				
Nickel	0.9489	0.0200	1.000		94.9	80	120				
Zinc	0.9454	0.0200	1.000		94.5	80	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K30

ANALYTICAL QC SUMMARY REPORT

BatchID: 256423

Sample ID: **1802K30-002EMS** Client ID: **MW-22D-20180221-01** Units: **mg/L** Prep Date: **02/26/2018** Run No: **364064**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010D** BatchID: **256423** Analysis Date: **02/27/2018** Seq No: **8046181**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9333	0.0200	1.000		93.3	75	125				
Arsenic	0.9202	0.0500	1.000		92.0	75	125				
Barium	2.265	0.0200	1.000	1.383	88.2	75	125				
Beryllium	0.8801	0.0100	1.000		88.0	75	125				
Cadmium	0.9145	0.0050	1.000		91.4	75	125				
Chromium	0.8908	0.0100	1.000		89.1	75	125				
Copper	0.8816	0.0100	1.000		88.2	75	125				
Iron	15.89	0.100	10.00	7.610	82.8	75	125				
Lead	0.8637	0.0100	1.000		86.4	75	125				
Nickel	0.9026	0.0200	1.000	0.02962	87.3	75	125				
Zinc	0.9085	0.0200	1.000	0.009270	89.9	75	125				

Sample ID: **1802K30-002EMSD** Client ID: **MW-22D-20180221-01** Units: **mg/L** Prep Date: **02/26/2018** Run No: **364064**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010D** BatchID: **256423** Analysis Date: **02/27/2018** Seq No: **8046182**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9338	0.0200	1.000		93.4	75	125	0.9333	0.045	20	
Arsenic	0.9252	0.0500	1.000		92.5	75	125	0.9202	0.544	20	
Barium	2.251	0.0200	1.000	1.383	86.7	75	125	2.265	0.644	20	
Beryllium	0.8878	0.0100	1.000		88.8	75	125	0.8801	0.862	20	
Cadmium	0.9244	0.0050	1.000		92.4	75	125	0.9145	1.07	20	
Chromium	0.9010	0.0100	1.000		90.1	75	125	0.8908	1.13	20	
Copper	0.8944	0.0100	1.000		89.4	75	125	0.8816	1.44	20	
Iron	15.88	0.100	10.00	7.610	82.7	75	125	15.89	0.045	20	
Lead	0.8758	0.0100	1.000		87.6	75	125	0.8637	1.38	20	
Nickel	0.9143	0.0200	1.000	0.02962	88.5	75	125	0.9026	1.28	20	
Zinc	0.9228	0.0200	1.000	0.009270	91.4	75	125	0.9085	1.57	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K30

ANALYTICAL QC SUMMARY REPORT

BatchID: 256463

Sample ID: **MB-256463**	Client ID:			Units: **ug/L**	Prep Date: **02/26/2018**	Run No: **363983**
SampleType: **MBLK**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256463**	Analysis Date: **02/26/2018**	Seq No: **8044004**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	BRL	4.0									

Sample ID: **LCS-256463**	Client ID:			Units: **ug/L**	Prep Date: **02/26/2018**	Run No: **363983**
SampleType: **LCS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256463**	Analysis Date: **02/26/2018**	Seq No: **8044005**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	110.6	4.0	200.0		55.3	45.1	115				

Sample ID: **LCSD-256463**	Client ID:			Units: **ug/L**	Prep Date: **02/26/2018**	Run No: **363983**
SampleType: **LCSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256463**	Analysis Date: **02/26/2018**	Seq No: **8044006**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	104.7	4.0	200.0		52.3	45.1	115	110.6	5.47	20	

Sample ID: **1802K30-002DMS**	Client ID: **MW-22D-20180221-01**			Units: **ug/L**	Prep Date: **02/26/2018**	Run No: **363983**
SampleType: **MS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256463**	Analysis Date: **02/26/2018**	Seq No: **8044010**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	140.4	4.0	200.0	40.40	50.0	42	115				

Sample ID: **1802K30-002DMSD**	Client ID: **MW-22D-20180221-01**			Units: **ug/L**	Prep Date: **02/26/2018**	Run No: **363983**
SampleType: **MSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256463**	Analysis Date: **02/26/2018**	Seq No: **8044011**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	135.5	4.0	200.0	40.40	47.5	42	115	140.4	3.55	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K30

ANALYTICAL QC SUMMARY REPORT

BatchID: 256492

Sample ID: **MB-256492**	Client ID:			Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **363957**
SampleType: **MBLK**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **256492**	Analysis Date: **02/26/2018**	Seq No: **8043250**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	2.00									

Sample ID: **LCS-256492**	Client ID:			Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **363957**
SampleType: **LCS**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **256492**	Analysis Date: **02/26/2018**	Seq No: **8043251**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	372.0	2.00	372.0		100	70	130				

Sample ID: **1802K30-002HMS**	Client ID: **MW-22D-20180221-01**			Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **363957**
SampleType: **MS**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **256492**	Analysis Date: **02/26/2018**	Seq No: **8043288**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	18.00	2.00	18.60		96.8	62.8	125				

Sample ID: **1802K30-002HMSD**	Client ID: **MW-22D-20180221-01**			Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **363957**
SampleType: **MSD**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **256492**	Analysis Date: **02/26/2018**	Seq No: **8043290**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	18.40	2.00	18.60		98.9	62.8	125	18.00	2.20	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K30

ANALYTICAL QC SUMMARY REPORT

BatchID: 256493

Sample ID: **MB-256493**	Client ID:			Units: **mg/L**	Prep Date: **02/27/2018**	Run No: **364027**
SampleType: **MBLK**	TestCode: **Mercury, Total SW7470A**			BatchID: **256493**	Analysis Date: **02/27/2018**	Seq No: **8046156**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020									

Sample ID: **LCS-256493**	Client ID:			Units: **mg/L**	Prep Date: **02/27/2018**	Run No: **364027**
SampleType: **LCS**	TestCode: **Mercury, Total SW7470A**			BatchID: **256493**	Analysis Date: **02/27/2018**	Seq No: **8046157**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004011	0.00020	0.0040		100	80	120				

Sample ID: **1802K30-002EMS**	Client ID: **MW-22D-20180221-01**			Units: **mg/L**	Prep Date: **02/27/2018**	Run No: **364027**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**			BatchID: **256493**	Analysis Date: **02/27/2018**	Seq No: **8046161**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003881	0.00020	0.0040		97.0	70	130				

Sample ID: **1802K30-002EMSD**	Client ID: **MW-22D-20180221-01**			Units: **mg/L**	Prep Date: **02/27/2018**	Run No: **364027**
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**			BatchID: **256493**	Analysis Date: **02/27/2018**	Seq No: **8046162**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003766	0.00020	0.0040		94.2	70	130	0.003881	3.00	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K30

ANALYTICAL QC SUMMARY REPORT

BatchID: 256494

Sample ID: **MB-256494**	Client ID:				Units: **mg/L**		Prep Date: **02/26/2018**		Run No: **363959**
SampleType: **MBLK**	TestCode: **Cyanide SW9014**				BatchID: **256494**		Analysis Date: **02/26/2018**		Seq No: **8043349**

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

Sample ID: **LCS-256494**	Client ID:				Units: **mg/L**		Prep Date: **02/26/2018**		Run No: **363959**
SampleType: **LCS**	TestCode: **Cyanide SW9014**				BatchID: **256494**		Analysis Date: **02/26/2018**		Seq No: **8043350**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2460	0.010	0.2500		98.4	85	115				

Sample ID: **1802K30-002FMS**	Client ID: **MW-22D-20180221-01**				Units: **mg/L**		Prep Date: **02/26/2018**		Run No: **363959**
SampleType: **MS**	TestCode: **Cyanide SW9014**				BatchID: **256494**		Analysis Date: **02/26/2018**		Seq No: **8043368**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2520	0.010	0.2500		101	70	130				

Sample ID: **1802K30-002FMSD**	Client ID: **MW-22D-20180221-01**				Units: **mg/L**		Prep Date: **02/26/2018**		Run No: **363959**
SampleType: **MSD**	TestCode: **Cyanide SW9014**				BatchID: **256494**		Analysis Date: **02/26/2018**		Seq No: **8043369**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2550	0.010	0.2500		102	70	130	0.2520	1.18	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K30

ANALYTICAL QC SUMMARY REPORT

BatchID: 256510

Sample ID: **MB-256510** Client ID: Units: **ug/L** Prep Date: **02/26/2018** Run No: **363993**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256510** Analysis Date: **02/26/2018** Seq No: **8044538**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	5.0									
Carbon disulfide	BRL	5.0									
Ethylbenzene	BRL	5.0									
Toluene	BRL	5.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	48.70	0	50.00		97.4	68	127				
Surr: Dibromofluoromethane	50.11	0	50.00		100	84.4	122				
Surr: Toluene-d8	50.53	0	50.00		101	80.1	116				

Sample ID: **LCS-256510** Client ID: Units: **ug/L** Prep Date: **02/26/2018** Run No: **363993**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256510** Analysis Date: **02/26/2018** Seq No: **8044537**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	47.79	5.0	50.00		95.6	73.7	126				
Toluene	47.83	5.0	50.00		95.7	76.8	125				
Surr: 4-Bromofluorobenzene	47.58	0	50.00		95.2	68	127				
Surr: Dibromofluoromethane	50.72	0	50.00		101	84.4	122				
Surr: Toluene-d8	50.95	0	50.00		102	80.1	116				

Sample ID: **1802K30-002AMS** Client ID: **MW-22D-20180221-01** Units: **ug/L** Prep Date: **02/26/2018** Run No: **363993**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256510** Analysis Date: **02/27/2018** Seq No: **8044574**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	50.89	5.0	50.00		102	66.1	137				
Toluene	51.01	5.0	50.00		102	63.8	141				
Surr: 4-Bromofluorobenzene	48.17	0	50.00		96.3	68	127				
Surr: Dibromofluoromethane	49.35	0	50.00		98.7	84.4	122				
Surr: Toluene-d8	50.62	0	50.00		101	80.1	116				

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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K30

ANALYTICAL QC SUMMARY REPORT

BatchID: 256510

Sample ID: **1802K30-002AMSD** Client ID: **MW-22D-20180221-01** Units: **ug/L** Prep Date: **02/26/2018** Run No: **363993**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256510** Analysis Date: **02/27/2018** Seq No: **8044575**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	52.22	5.0	50.00		104	66.1	137	50.89	2.58	20	
Toluene	53.74	5.0	50.00		107	63.8	141	51.01	5.21	20	
Surr: 4-Bromofluorobenzene	46.99	0	50.00		94.0	68	127	48.17	0	0	
Surr: Dibromofluoromethane	48.46	0	50.00		96.9	84.4	122	49.35	0	0	
Surr: Toluene-d8	50.90	0	50.00		102	80.1	116	50.62	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K30

ANALYTICAL QC SUMMARY REPORT

BatchID: R363915

Sample ID: **MB-R363915**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **MBLK**	TestCode: **Ferrous Iron**				BatchID: **R363915**		Analysis Date: **02/21/2018**		Seq No: **8042203**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R363915**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **LCS**	TestCode: **Ferrous Iron**				BatchID: **R363915**		Analysis Date: **02/21/2018**		Seq No: **8042204**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5060	0.100	0.5000		101	85	115				

Sample ID: **1802J52-001IMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **MS**	TestCode: **Ferrous Iron**				BatchID: **R363915**		Analysis Date: **02/21/2018**		Seq No: **8042224**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5170	0.100	0.5000		103	80	120				

Sample ID: **1802K30-002GMS**	Client ID: **MW-22D-20180221-01**				Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **MS**	TestCode: **Ferrous Iron**				BatchID: **R363915**		Analysis Date: **02/22/2018**		Seq No: **8042229**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	9.820	1.00	5.000	4.480	107	80	120				

Sample ID: **1802J52-001IMSD**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **MSD**	TestCode: **Ferrous Iron**				BatchID: **R363915**		Analysis Date: **02/21/2018**		Seq No: **8042226**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.4970	0.100	0.5000		99.4	80	120	0.5170	3.94	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K30

ANALYTICAL QC SUMMARY REPORT

BatchID: R363915

Sample ID: **1802K30-002GMSD** Client ID: **MW-22D-20180221-01** Units: **mg/L** Prep Date: Run No: **363915**
SampleType: **MSD** TestCode: **Ferrous Iron** BatchID: **R363915** Analysis Date: **02/22/2018** Seq No: **8042231**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	9.950	1.00	5.000	4.480	109	80	120	9.820	1.32	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K30

ANALYTICAL QC SUMMARY REPORT

BatchID: R363962

Sample ID: **MB-R363962**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **363962**	
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**			BatchID: **R363962**	Analysis Date: **02/22/2018**		Seq No: **8043487**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R363962**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **363962**	
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**			BatchID: **R363962**	Analysis Date: **02/22/2018**		Seq No: **8043486**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.868	0.25	5.000		97.4	90	110				
Sulfate	24.53	1.0	25.00		98.1	90	110				

Sample ID: **1802K30-002IMS**	Client ID: **MW-22D-20180221-01**			Units: **mg/L**	Prep Date:		Run No: **363962**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**			BatchID: **R363962**	Analysis Date: **02/23/2018**		Seq No: **8043519**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	48.05	2.5	50.00		96.1	90	110				
Sulfate	229.5	10	250.0	3.740	90.3	90	110				

Sample ID: **1802K33-001IMS**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **363962**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**			BatchID: **R363962**	Analysis Date: **02/23/2018**		Seq No: **8043513**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	49.21	2.5	50.00	0.5841	97.2	90	110				
Sulfate	454.8	10	250.0	315.9	55.5	90	110				S

Sample ID: **1802K33-001IMSD**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **363962**	
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**			BatchID: **R363962**	Analysis Date: **02/23/2018**		Seq No: **8043514**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	49.77	2.5	50.00	0.5841	98.4	90	110	49.21	1.14	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K30

ANALYTICAL QC SUMMARY REPORT

BatchID: R363962

Sample ID: **1802K33-001IMSD** Client ID:
SampleType: **MSD** TestCode: **ION SCAN SW9056A**
Units: **mg/L** Prep Date: Run No: **363962**
BatchID: **R363962** Analysis Date: **02/23/2018** Seq No: **8043514**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	450.5	10	250.0	315.9	53.8	90	110	454.8	0.947	20	S

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.

March 13, 2018

Adria Reimer
ERM-Southeast

3200 Windy Hill Rd
Atlanta GA 30339

RE: AGLC-Macon

Dear Adria Reimer: Order No: 1802K31

Analytical Environmental Services, Inc. received 3 samples on February 22, 2018 9:05 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's accreditations are as follows:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.
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.

Sincerely,

Mirzeta Kararic

Mirzeta Kararic

Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

AES

CHAIN OF CUSTODY

Work Order: 1802K31

Date: 2/21/18 Page 1 of 1

COMPANY: ERM

ADDRESS: 3200 WINDY HILL RD SE ATLANTA, GA 30339

PHONE: (678)-486-2700

EMAIL: edna.reimer@erm.com

SAMPLED BY: MARKELSON THOMAS,

SIGNATURE:

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	SVOC	VOC	dissolved gases	Methane	Total cyanide	Sulfide	Total metals + mercury	Nitrate/Nitrite	ferrous iron					REMARKS	Number of Containers
	PRESERVATION (see codes)						I	H+I	H+I	O	SH	Zn+SH	N+I	I	I						
1	MW-307D-20180221-01	2/21/18	14:15	X		GW	2	2	2	2	1	1	1	1	1					O=benzalkonium chloride	13
2	MW-306D-20180221-01	"	10:15	X		GW	2	2	2	2	1	1	1	1	1					SH=Sodium hydroxide	13
3	TB-8-20180221-01	NA	—			W		2												Zn=Zinc acetate	2
4																					
5																					
6																				Sample #2 is MW-306D	
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					

ANALYSIS REQUESTED

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY: DATE/TIME:
1. [signature] 2/21/18 19:16
2.
3.

RECEIVED BY: DATE/TIME:
1. Monique A. 2/22/18 9:05 am
2.
3.

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client (FedEx) UPS US mail courier Greyhound
other: _____

PROJECT INFORMATION
PROJECT NAME: ALT MACON
PROJECT #: 0366660
SITE ADDRESS: 737 MULBERRY ST MACON, GA
SEND REPORT TO: edna.reimer@erm.com
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers: 28

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

STATE PROGRAM (if any): GA
E-mail? [x] Fax? [ ]
DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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

Client: ERM-Southeast
Project: AGLC-Macon
Lab ID: 1802K31

Case Narrative

PAH Analysis by Method 8270D-SIM:

Matrix spike and matrix spike duplicate analyses were not performed with Batch 256248 due to insufficient sample volume.

Ion Scan Analysis by Method 9056A:

Due to sample matrix, samples 1802K31-001I and -002I required dilution during preparation and/or analysis resulting in elevated reporting limits.

Ferrous Iron by SM3500Fe-B:

Method 3500Fe-B as listed in Standard Methods for the Examination of Water and Wastewater 22nd Edition is applicable for analyzing Ferrous Iron in the field. Samples were analyzed in the laboratory which is a deviation from the method.

Analytical Environmental Services, Inc **Date:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-307D-20180221-01
Project Name:	AGLC-Macon	**Collection Date:**	2/21/2018 2:15:00 PM
Lab ID:	1802K31-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256437	1	02/23/2018 16:58	NP
Carbon disulfide	BRL	5.0		ug/L	256437	1	02/23/2018 16:58	NP
Ethylbenzene	BRL	5.0		ug/L	256437	1	02/23/2018 16:58	NP
Toluene	BRL	5.0		ug/L	256437	1	02/23/2018 16:58	NP
Xylenes, Total	BRL	5.0		ug/L	256437	1	02/23/2018 16:58	NP
Surr: 4-Bromofluorobenzene	98.2	68-127		%REC	256437	1	02/23/2018 16:58	NP
Surr: Dibromofluoromethane	101	84.4-122		%REC	256437	1	02/23/2018 16:58	NP
Surr: Toluene-d8	100	80.1-116		%REC	256437	1	02/23/2018 16:58	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256492	1	02/26/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	1.6	0.50		ug/L	256248	1	02/23/2018 13:43	YH
Acenaphthylene	BRL	1.0		ug/L	256248	1	02/23/2018 13:43	YH
Acenaphthene	1.5	0.50		ug/L	256248	1	02/23/2018 13:43	YH
Fluorene	0.40	0.10		ug/L	256248	1	02/23/2018 13:43	YH
Phenanthrene	2.9	0.050		ug/L	256248	1	02/23/2018 13:43	YH
Anthracene	0.31	0.050		ug/L	256248	1	02/23/2018 13:43	YH
Fluoranthene	0.28	0.10		ug/L	256248	1	02/23/2018 13:43	YH
Pyrene	0.34	0.050		ug/L	256248	1	02/23/2018 13:43	YH
Benz(a)anthracene	BRL	0.050		ug/L	256248	1	02/23/2018 13:43	YH
Chrysene	BRL	0.050		ug/L	256248	1	02/23/2018 13:43	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256248	1	02/23/2018 13:43	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256248	1	02/23/2018 13:43	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256248	1	02/23/2018 13:43	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256248	1	02/23/2018 13:43	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256248	1	02/23/2018 13:43	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256248	1	02/23/2018 13:43	YH
Surr: 4-Terphenyl-d14	105	59.9-128		%REC	256248	1	02/23/2018 13:43	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256350	1	02/23/2018 18:25	YH
2-Methylphenol	BRL	10		ug/L	256350	1	02/23/2018 18:25	YH
3,4-Methylphenol	BRL	10		ug/L	256350	1	02/23/2018 18:25	YH
Phenol	BRL	10		ug/L	256350	1	02/23/2018 18:25	YH
Surr: 2,4,6-Tribromophenol	88.3	51.4-138		%REC	256350	1	02/23/2018 18:25	YH
Surr: 2-Fluorobiphenyl	79.7	44.6-119		%REC	256350	1	02/23/2018 18:25	YH
Surr: 2-Fluorophenol	69	27.2-120		%REC	256350	1	02/23/2018 18:25	YH
Surr: 4-Terphenyl-d14	103	47.1-136		%REC	256350	1	02/23/2018 18:25	YH
Surr: Nitrobenzene-d5	78.8	40.7-119		%REC	256350	1	02/23/2018 18:25	YH

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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-307D-20180221-01
Project Name:	AGLC-Macon	**Collection Date:**	2/21/2018 2:15:00 PM
Lab ID:	1802K31-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	55.7	18.1-120		%REC	256350	1	02/23/2018 18:25	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256717	1	03/02/2018 03:14	AS
ION SCAN SW9056A								
Nitrate	BRL	12		mg/L	R363962	50	02/22/2018 15:53	MP
Sulfate	BRL	50		mg/L	R363962	50	02/22/2018 15:53	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	110	4.0		ug/L	256463	1	02/26/2018 14:16	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363915	1	02/22/2018 10:00	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	256494	1	02/27/2018 15:00	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256423	1	02/27/2018 17:24	JR
Arsenic	BRL	0.0500		mg/L	256423	1	02/27/2018 17:24	JR
Barium	0.980	0.0200		mg/L	256423	1	02/27/2018 17:24	JR
Beryllium	BRL	0.0100		mg/L	256423	1	02/27/2018 17:24	JR
Cadmium	BRL	0.0050		mg/L	256423	1	02/27/2018 17:24	JR
Chromium	0.0694	0.0100		mg/L	256423	1	02/27/2018 17:24	JR
Copper	0.0126	0.0100		mg/L	256423	1	02/27/2018 17:24	JR
Iron	BRL	0.100		mg/L	256423	1	02/27/2018 17:24	JR
Lead	BRL	0.0100		mg/L	256423	1	02/27/2018 17:24	JR
Nickel	BRL	0.0200		mg/L	256423	1	02/27/2018 17:24	JR
Zinc	BRL	0.0200		mg/L	256423	1	02/27/2018 17:24	JR

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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-306D-20180221-01
Project Name:	AGLC-Macon	**Collection Date:**	2/21/2018 10:15:00 AM
Lab ID:	1802K31-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	8.0	5.0		ug/L	256437	1	02/23/2018 17:22	NP
Carbon disulfide	BRL	5.0		ug/L	256437	1	02/23/2018 17:22	NP
Ethylbenzene	BRL	5.0		ug/L	256437	1	02/23/2018 17:22	NP
Toluene	BRL	5.0		ug/L	256437	1	02/23/2018 17:22	NP
Xylenes, Total	BRL	5.0		ug/L	256437	1	02/23/2018 17:22	NP
Surr: 4-Bromofluorobenzene	99.3	68-127		%REC	256437	1	02/23/2018 17:22	NP
Surr: Dibromofluoromethane	101	84.4-122		%REC	256437	1	02/23/2018 17:22	NP
Surr: Toluene-d8	102	80.1-116		%REC	256437	1	02/23/2018 17:22	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256492	1	02/26/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256248	1	02/23/2018 14:09	YH
Acenaphthylene	BRL	1.0		ug/L	256248	1	02/23/2018 14:09	YH
Acenaphthene	0.76	0.50		ug/L	256248	1	02/23/2018 14:09	YH
Fluorene	0.39	0.10		ug/L	256248	1	02/23/2018 14:09	YH
Phenanthrene	0.39	0.050		ug/L	256248	1	02/23/2018 14:09	YH
Anthracene	0.091	0.050		ug/L	256248	1	02/23/2018 14:09	YH
Fluoranthene	0.10	0.10		ug/L	256248	1	02/23/2018 14:09	YH
Pyrene	0.13	0.050		ug/L	256248	1	02/23/2018 14:09	YH
Benz(a)anthracene	BRL	0.050		ug/L	256248	1	02/23/2018 14:09	YH
Chrysene	BRL	0.050		ug/L	256248	1	02/23/2018 14:09	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256248	1	02/23/2018 14:09	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256248	1	02/23/2018 14:09	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256248	1	02/23/2018 14:09	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256248	1	02/23/2018 14:09	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256248	1	02/23/2018 14:09	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256248	1	02/23/2018 14:09	YH
Surr: 4-Terphenyl-d14	104	59.9-128		%REC	256248	1	02/23/2018 14:09	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256350	1	02/23/2018 18:51	YH
2-Methylphenol	BRL	10		ug/L	256350	1	02/23/2018 18:51	YH
3,4-Methylphenol	BRL	10		ug/L	256350	1	02/23/2018 18:51	YH
Phenol	BRL	10		ug/L	256350	1	02/23/2018 18:51	YH
Surr: 2,4,6-Tribromophenol	90.2	51.4-138		%REC	256350	1	02/23/2018 18:51	YH
Surr: 2-Fluorobiphenyl	79	44.6-119		%REC	256350	1	02/23/2018 18:51	YH
Surr: 2-Fluorophenol	66.1	27.2-120		%REC	256350	1	02/23/2018 18:51	YH
Surr: 4-Terphenyl-d14	97.4	47.1-136		%REC	256350	1	02/23/2018 18:51	YH
Surr: Nitrobenzene-d5	78.1	40.7-119		%REC	256350	1	02/23/2018 18:51	YH

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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-306D-20180221-01
Project Name:	AGLC-Macon	**Collection Date:**	2/21/2018 10:15:00 AM
Lab ID:	1802K31-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	53	18.1-120		%REC	256350	1	02/23/2018 18:51	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256717	1	03/02/2018 03:18	AS
ION SCAN SW9056A								
Nitrate	BRL	2.5		mg/L	R363962	10	02/22/2018 15:00	MP
Sulfate	BRL	10		mg/L	R363962	10	02/22/2018 15:00	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	16	4.0		ug/L	256463	1	02/26/2018 14:21	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363915	1	02/22/2018 10:00	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	256494	1	02/27/2018 15:00	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256423	1	02/27/2018 17:27	JR
Arsenic	BRL	0.0500		mg/L	256423	1	02/27/2018 17:27	JR
Barium	0.101	0.0200		mg/L	256423	1	02/27/2018 17:27	JR
Beryllium	BRL	0.0100		mg/L	256423	1	02/27/2018 17:27	JR
Cadmium	BRL	0.0050		mg/L	256423	1	02/27/2018 17:27	JR
Chromium	0.0225	0.0100		mg/L	256423	1	02/27/2018 17:27	JR
Copper	0.0328	0.0100		mg/L	256423	1	02/27/2018 17:27	JR
Iron	BRL	0.100		mg/L	256423	1	02/27/2018 17:27	JR
Lead	BRL	0.0100		mg/L	256423	1	02/27/2018 17:27	JR
Nickel	0.0233	0.0200		mg/L	256423	1	02/27/2018 17:27	JR
Zinc	BRL	0.0200		mg/L	256423	1	02/27/2018 17:27	JR

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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-8-20180221-01
Project Name:	AGLC-Macon	**Collection Date:**	2/21/2018
Lab ID:	1802K31-003	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256437	1	02/23/2018 14:09	NP
Carbon disulfide	BRL	5.0		ug/L	256437	1	02/23/2018 14:09	NP
Ethylbenzene	BRL	5.0		ug/L	256437	1	02/23/2018 14:09	NP
Toluene	BRL	5.0		ug/L	256437	1	02/23/2018 14:09	NP
Xylenes, Total	BRL	5.0		ug/L	256437	1	02/23/2018 14:09	NP
Surr: 4-Bromofluorobenzene	99.2	68-127		%REC	256437	1	02/23/2018 14:09	NP
Surr: Dibromofluoromethane	107	84.4-122		%REC	256437	1	02/23/2018 14:09	NP
Surr: Toluene-d8	105	80.1-116		%REC	256437	1	02/23/2018 14:09	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

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

March 8, 2018

Mirzeta Kararic
Analytical Environmental Services, Inc.
3785 Presidential Parkway
Suite 111
Atlanta, GA 30340

RE: **1802K31**

Pace Workorder: 25818

Dear Mirzeta Kararic:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, February 28, 2018. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Ruth Welsh 03/08/2018
Ruth.Welsh@pacelabs.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email PAESfeedback@pacelabs.com.

Total Number of Pages 11

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water
Accreditor:	West Virginia Department of Environmental Protection, Division of Water and Waste Management
Accreditation ID:	395
Scope:	Non-Potable Water
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	State of Virginia
Accreditation ID:	460201
Scope:	Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

SAMPLE SUMMARY

Workorder: 25818 1802K31

Lab ID	Sample ID	Matrix	Date Collected	Date Received
258180001	MW-307D-20180221-01	Water	2/21/2018 14:15	2/28/2018 11:45
258180002	MW-306D-20180221-01	Water	2/21/2018 10:15	2/28/2018 11:45

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

ANALYTICAL RESULTS

Workorder: 25818 1802K31

Lab ID: **258180001** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **MW-307D-20180221-01** Date Collected: 2/21/2018 14:15

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**<5.0**	mg/l	5.0	0.32	1	3/5/2018 10:59	TD	n
Oxygen	**7.3**	mg/l	0.50	0.12	1	3/5/2018 10:59	TD	n
Nitrogen	**18**	mg/l	2.0	0.34	1	3/5/2018 10:59	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 10:59	TD	n

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ANALYTICAL RESULTS

Workorder: 25818 1802K31

Lab ID: **258180002** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **MW-306D-20180221-01** Date Collected: 2/21/2018 10:15

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**<5.0**	mg/l	5.0	0.32	1	3/5/2018 11:15	TD	n
Oxygen	**8.9**	mg/l	0.50	0.12	1	3/5/2018 11:15	TD	n
Nitrogen	**16**	mg/l	2.0	0.34	1	3/5/2018 11:15	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 11:15	TD	n

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 25818 1802K31

DEFINITIONS/QUALIFIERS

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

Pace Analytical Energy Services LLC
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QUALITY CONTROL DATA

Workorder: 25818 1802K31

QC Batch: DISG/6695 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 258180001, 258180002

METHOD BLANK: 54025

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Carbon Dioxide	mg/l	<5.0	5.0	n
Oxygen	mg/l	<0.50	0.50	n
Nitrogen	mg/l	<2.0	2.0	n
Carbon Monoxide	mg/l	<1.0	1.0	n

LABORATORY CONTROL SAMPLE & LCSD: 54026 54027

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Carbon Dioxide	mg/l	120	130	130	112	111	80-120	0.97	20	n
Oxygen	mg/l	11	10	9.9	88	87	80-120	1.3	20	n
Nitrogen	mg/l	140	120	120	89	89	80-120	0.98	20	n
Carbon Monoxide	mg/l	2	2.3	2.1	116	105	80-120	9.5	20	n

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 25818 1802K31

QUALITY CONTROL PARAMETER QUALIFIERS

n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 25818 1802K31

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
258180001	MW-307D-20180221-01			AM20GAX	DISG/6695
258180002	MW-306D-20180221-01			AM20GAX	DISG/6695

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

25818

CHAIN OF CUSTODY

Work Order: _____

Date: _____ Page _____ of _____

COMPANY:	ADDRESS:
PHONE:	EMAIL:
SAMPLED BY:	SIGNATURE:

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	ANALYSIS REQUESTED: O_2, N_2, CO_2	PRESERVATION (see codes)	REMARKS	Number of Containers
1	MW-307D-20180221-01	2/21/18	14:15	X		GW	X			
2	MW-306D-20180221-01	-11-	10:15	X		GW	X			
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Andrea Stephe	2/27/18 5:00pm	1. [illegible]	2.28.18 1145
2.		2.	
3.		3.	

PROJECT INFORMATION

PROJECT NAME: 1802K31
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: MKARAKIC@AESATLANTA.COM
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT

Total # of Containers

Turnaround Time (TAT) Request

- [X] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush (auth req.)
- [ ] Other _____

STATE PROGRAM (if any): _____
E-mail? ☐ Fax? ☐
DATA PACKAGE: I ○ II ○ III ○ IV ○

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client FedEx UPS US mail courier Greyhound
other: _____

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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

Cooler Receipt Form

Client Name: AES Project: 1802C31 Lab Work Order: 25818

A. Shipping/Container Information (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other: _____ Air bill Present: (Yes) No

Tracking Number: 7249 3168 6734

Custody Seal on Cooler/Box Present: Yes (No) Seals Intact: Yes No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam Other: _____

Type of Ice: (Wet) Blue None Ice Intact: (Yes) Melted

Cooler Temperature: 1°C Radiation Screened: Yes (No) Chain of Custody Present: (Yes) No

Comments: _____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC			✓	
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected				
Sufficient volume provided	✓			
PAES containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	
Headspace present?	✓			

Comments: _____

Cooler contents examined/received by: [signature] Date: 2.28.18

Project Manager Review: [signature] Date: 2/28/18

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **ERM-Southeast** AES Work Order Number: **1802H80**

2. Carrier: FedEx ■ UPS ☐ USPS ☐ Client ☐ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	○	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	○	○		
5.	Custody seals intact on shipping container?	○	○	○		
6.	Temperature blanks present?	○	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	○	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	○	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	○	○	○		
10.	Sampler name and/or signature on COC?	○	○	○		
11.	Were all samples received within holding time?	○	○	○		
12.	TAT marked on the COC?	○	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 2.3 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). TD 2/20/18

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	○	○	○		
17.	Custody seals present on sample containers?	○	○	○		
18.	Custody seals intact on sample containers?	○	○	○		
19.	Do sample container labels match the COC?	○	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	○	○	○		
21.	Were all of the samples listed on the COC received?	○	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	○	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	○	○	○		
24.	Were samples received in appropriate containers?	○	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	○	○	○		
26.	Were trip blanks submitted?	○	○	○	listed on COC ■ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). MDP 2/20/18

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	○	○	○		
29.	Containers meet preservation guidelines?	○	○	○		
30.	Was pH adjusted at Sample Receipt?	○	○	○		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). MDP 2/20/18

Checklist 6.9.17 Rev 2

Locked

Client: ERM-Southeast
Project Name: AGLC-Macon
Lab Order: 1802K31

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802K31-001A	MW-307D-20180221-01	2/21/2018 2:15:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/23/2018 11:42:00 AM	02/23/2018
1802K31-001B	MW-307D-20180221-01	2/21/2018 2:15:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/22/2018 3:00:00 PM	02/23/2018
1802K31-001B	MW-307D-20180221-01	2/21/2018 2:15:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/23/2018 9:00:00 AM	02/23/2018
1802K31-001D	MW-307D-20180221-01	2/21/2018 2:15:00PM	Groundwater	GC Analysis of Gaseous Samples		2/26/2018 12:39:32 PM	02/26/2018
1802K31-001E	MW-307D-20180221-01	2/21/2018 2:15:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00 AM	02/27/2018
1802K31-001E	MW-307D-20180221-01	2/21/2018 2:15:00PM	Groundwater	TOTAL MERCURY		3/1/2018 9:38:00 PM	03/02/2018
1802K31-001F	MW-307D-20180221-01	2/21/2018 2:15:00PM	Groundwater	Cyanide		2/27/2018 11:15:00 AM	02/27/2018
1802K31-001G	MW-307D-20180221-01	2/21/2018 2:15:00PM	Groundwater	Ferrous Iron			02/22/2018
1802K31-001H	MW-307D-20180221-01	2/21/2018 2:15:00PM	Groundwater	Sulfide by SW9030/9034		2/26/2018 2:20:00 PM	02/26/2018
1802K31-001I	MW-307D-20180221-01	2/21/2018 2:15:00PM	Groundwater	ION SCAN			02/22/2018
1802K31-002A	MW-306D-20180221-01	2/21/2018 10:15:00AM	Groundwater	Volatile Organic Compounds by GC/MS		2/23/2018 11:42:00 AM	02/23/2018
1802K31-002B	MW-306D-20180221-01	2/21/2018 10:15:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/22/2018 3:00:00 PM	02/23/2018
1802K31-002B	MW-306D-20180221-01	2/21/2018 10:15:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/23/2018 9:00:00 AM	02/23/2018
1802K31-002D	MW-306D-20180221-01	2/21/2018 10:15:00AM	Groundwater	GC Analysis of Gaseous Samples		2/26/2018 12:39:32 PM	02/26/2018
1802K31-002E	MW-306D-20180221-01	2/21/2018 10:15:00AM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00 AM	02/27/2018
1802K31-002E	MW-306D-20180221-01	2/21/2018 10:15:00AM	Groundwater	TOTAL MERCURY		3/1/2018 9:38:00 PM	03/02/2018
1802K31-002F	MW-306D-20180221-01	2/21/2018 10:15:00AM	Groundwater	Cyanide		2/27/2018 11:15:00 AM	02/27/2018
1802K31-002G	MW-306D-20180221-01	2/21/2018 10:15:00AM	Groundwater	Ferrous Iron			02/22/2018
1802K31-002H	MW-306D-20180221-01	2/21/2018 10:15:00AM	Groundwater	Sulfide by SW9030/9034		2/26/2018 2:20:00 PM	02/26/2018
1802K31-002I	MW-306D-20180221-01	2/21/2018 10:15:00AM	Groundwater	ION SCAN			02/22/2018
1802K31-003A	TB-8-20180221-01	2/21/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		2/23/2018 11:42:00 AM	02/23/2018

AES, Inc.
3080 Presidential Drive
Atlanta GA 30340

pH Adjustment Sheet

AES Sample ID number	Test Requested	pH as Received	Required pH	Preservative Required	Lot # of Preservative	Amount Added mL or Pellets*	Final pH	Tech's Initials	Date	Time
1802K31-001E	Metals	12	<2	HNO_3	MET-781-42	0.5 mL Pellets	1	NP	2/22	7:05PM
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				

*** Number of Pellets when adding NAOH**

DWM 8/22/2014 10:01 AM

Client: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K31

ANALYTICAL QC SUMMARY REPORT

BatchID: 256248

Sample ID: **MB-256248** Client ID: Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
SampleType: **MBLK** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037285**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	BRL	0.50									
Acenaphthylene	BRL	1.0									
Anthracene	BRL	0.050									
Benz(a)anthracene	BRL	0.050									
Benzo(a)pyrene	BRL	0.050									
Benzo(b)fluoranthene	BRL	0.10									
Benzo(g,h,i)perylene	BRL	0.10									
Benzo(k)fluoranthene	BRL	0.050									
Chrysene	BRL	0.050									
Dibenz(a,h)anthracene	BRL	0.10									
Fluoranthene	BRL	0.10									
Fluorene	BRL	0.10									
Indeno(1,2,3-cd)pyrene	BRL	0.050									
Naphthalene	BRL	0.50									
Phenanthrene	BRL	0.050									
Pyrene	BRL	0.050									
Surr: 4-Terphenyl-d14	2.265	0	2.000		113	59.9	128				

Sample ID: **LCS-256248** Client ID: Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037286**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	2.000	0.50	2.000		100.0	64.7	120				
Acenaphthylene	2.092	1.0	2.000		105	63.2	120				
Anthracene	2.018	0.050	2.000		101	69.3	125				
Benz(a)anthracene	2.343	0.050	2.000		117	71.1	141				
Benzo(a)pyrene	2.115	0.050	2.000		106	67.2	131				

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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K31

ANALYTICAL QC SUMMARY REPORT

BatchID: 256248

Sample ID: **LCS-256248** Client ID: Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037286**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(b)fluoranthene	2.239	0.10	2.000		112	66.1	134				
Benzo(g,h,i)perylene	1.418	0.10	2.000		70.9	66.1	128				
Benzo(k)fluoranthene	2.122	0.050	2.000		106	67.7	133				
Chrysene	2.383	0.050	2.000		119	71.3	137				
Dibenz(a,h)anthracene	1.498	0.10	2.000		74.9	59.7	125				
Fluoranthene	2.155	0.10	2.000		108	72.3	129				
Fluorene	2.028	0.10	2.000		101	69.2	120				
Indeno(1,2,3-cd)pyrene	1.547	0.050	2.000		77.4	66.4	127				
Naphthalene	1.849	0.50	2.000		92.5	56.8	120				
Phenanthrene	1.880	0.050	2.000		94.0	70.9	120				
Pyrene	2.353	0.050	2.000		118	68.4	138				
Surr: 4-Terphenyl-d14	2.438	0	2.000		122	59.9	128				

Sample ID: **LCSD-256248** Client ID: Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
SampleType: **LCSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037369**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	2.049	0.50	2.000		102	64.7	120	0	0	20	
Acenaphthylene	2.104	1.0	2.000		105	63.2	120	0	0	18.4	
Anthracene	2.027	0.050	2.000		101	69.3	125	0	0	20.5	
Benz(a)anthracene	2.290	0.050	2.000		115	71.1	141	0	0	18	
Benzo(a)pyrene	2.037	0.050	2.000		102	67.2	131	0	0	33.5	
Benzo(b)fluoranthene	2.146	0.10	2.000		107	66.1	134	0	0	18.4	
Benzo(g,h,i)perylene	1.447	0.10	2.000		72.3	66.1	128	0	0	21.8	
Benzo(k)fluoranthene	2.028	0.050	2.000		101	67.7	133	0	0	20	
Chrysene	2.298	0.050	2.000		115	71.3	137	0	0	18.4	
Dibenz(a,h)anthracene	1.478	0.10	2.000		73.9	59.7	125	0	0	20.6	
Fluoranthene	2.155	0.10	2.000		108	72.3	129	0	0	26.9	

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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K31

ANALYTICAL QC SUMMARY REPORT

BatchID: 256248

Sample ID: **LCSD-256248** Client ID: Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
SampleType: **LCSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037369**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Fluorene	2.055	0.10	2.000		103	69.2	120	0	0	20	
Indeno(1,2,3-cd)pyrene	1.592	0.050	2.000		79.6	66.4	127	0	0	20.4	
Naphthalene	1.907	0.50	2.000		95.4	56.8	120	0	0	21	
Phenanthrene	1.892	0.050	2.000		94.6	70.9	120	0	0	20	
Pyrene	2.346	0.050	2.000		117	68.4	138	0	0	19	
Surr: 4-Terphenyl-d14	2.325	0	2.000		116	59.9	128	0	0	0	

Qualifiers:

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

Client: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K31

ANALYTICAL QC SUMMARY REPORT

BatchID: 256350

Sample ID: **MB-256350** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363818**
SampleType: **MBLK** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256350** Analysis Date: **02/23/2018** Seq No: **8041779**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,4-Dimethylphenol	BRL	10									
2-Methylphenol	BRL	10									
3,4-Methylphenol	BRL	10									
Phenol	BRL	10									
Surr: 2,4,6-Tribromophenol	99.05	0	100.0		99.0	51.4	138				
Surr: 2-Fluorobiphenyl	38.78	0	50.00		77.6	44.6	119				
Surr: 2-Fluorophenol	58.62	0	100.0		58.6	27.2	120				
Surr: 4-Terphenyl-d14	54.36	0	50.00		109	47.1	136				
Surr: Nitrobenzene-d5	43.38	0	50.00		86.8	40.7	119				
Surr: Phenol-d5	39.78	0	100.0		39.8	18.1	120				

Sample ID: **LCS-256350** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363818**
SampleType: **LCS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256350** Analysis Date: **02/23/2018** Seq No: **8041780**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	37.20	10	100.0		37.2	26.4	120				
Surr: 2,4,6-Tribromophenol	102.6	0	100.0		103	51.4	138				
Surr: 2-Fluorobiphenyl	43.66	0	50.00		87.3	44.6	119				
Surr: 2-Fluorophenol	56.75	0	100.0		56.8	27.2	120				
Surr: 4-Terphenyl-d14	58.04	0	50.00		116	47.1	136				
Surr: Nitrobenzene-d5	44.87	0	50.00		89.7	40.7	119				
Surr: Phenol-d5	37.43	0	100.0		37.4	18.1	120				

Sample ID: **1802K30-002BMS** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363818**
SampleType: **MS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256350** Analysis Date: **02/24/2018** Seq No: **8041817**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	48.59	10	100.0		48.6	31.5	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K31

ANALYTICAL QC SUMMARY REPORT

BatchID: 256350

Sample ID: **1802K30-002BMS** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363818**
SampleType: **MS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256350** Analysis Date: **02/24/2018** Seq No: **8041817**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 2,4,6-Tribromophenol	96.09	0	100.0		96.1	51.4	138				
Surr: 2-Fluorobiphenyl	41.02	0	50.00		82.0	44.6	119				
Surr: 2-Fluorophenol	63.41	0	100.0		63.4	27.2	120				
Surr: 4-Terphenyl-d14	54.12	0	50.00		108	47.1	136				
Surr: Nitrobenzene-d5	37.97	0	50.00		75.9	40.7	119				
Surr: Phenol-d5	52.75	0	100.0		52.8	18.1	120				

Sample ID: **1802K30-002BMSD** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363818**
SampleType: **MSD** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256350** Analysis Date: **02/24/2018** Seq No: **8041818**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	51.59	10	100.0		51.6	31.5	120	48.59	5.99	28.5	
Surr: 2,4,6-Tribromophenol	91.81	0	100.0		91.8	51.4	138	96.09	0	0	
Surr: 2-Fluorobiphenyl	40.08	0	50.00		80.2	44.6	119	41.02	0	0	
Surr: 2-Fluorophenol	65.71	0	100.0		65.7	27.2	120	63.41	0	0	
Surr: 4-Terphenyl-d14	51.75	0	50.00		104	47.1	136	54.12	0	0	
Surr: Nitrobenzene-d5	38.90	0	50.00		77.8	40.7	119	37.97	0	0	
Surr: Phenol-d5	52.94	0	100.0		52.9	18.1	120	52.75	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K31

ANALYTICAL QC SUMMARY REPORT

BatchID: 256423

Sample ID: **MB-256423** Client ID: Units: **mg/L** Prep Date: **02/26/2018** Run No: **364064**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010D** BatchID: **256423** Analysis Date: **02/27/2018** Seq No: **8046178**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	0.0200									
Arsenic	BRL	0.0500									
Barium	BRL	0.0200									
Beryllium	BRL	0.0100									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Copper	BRL	0.0100									
Iron	BRL	0.100									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Zinc	BRL	0.0200									

Sample ID: **LCS-256423** Client ID: Units: **mg/L** Prep Date: **02/26/2018** Run No: **364064**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010D** BatchID: **256423** Analysis Date: **02/27/2018** Seq No: **8046179**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9497	0.0200	1.000		95.0	80	120				
Arsenic	0.9334	0.0500	1.000		93.3	80	120				
Barium	0.9502	0.0200	1.000		95.0	80	120				
Beryllium	0.9026	0.0100	1.000		90.3	80	120				
Cadmium	0.9369	0.0050	1.000		93.7	80	120				
Chromium	0.9127	0.0100	1.000		91.3	80	120				
Copper	0.9025	0.0100	1.000		90.3	80	120				
Iron	8.968	0.100	10.00		89.7	80	120				
Lead	0.9051	0.0100	1.000		90.5	80	120				
Nickel	0.9489	0.0200	1.000		94.9	80	120				
Zinc	0.9454	0.0200	1.000		94.5	80	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K31

ANALYTICAL QC SUMMARY REPORT

BatchID: 256423

Sample ID: **1802K30-002EMS** Client ID: Units: **mg/L** Prep Date: **02/26/2018** Run No: **364064**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010D** BatchID: **256423** Analysis Date: **02/27/2018** Seq No: **8046181**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9333	0.0200	1.000		93.3	75	125				
Arsenic	0.9202	0.0500	1.000		92.0	75	125				
Barium	2.265	0.0200	1.000	1.383	88.2	75	125				
Beryllium	0.8801	0.0100	1.000		88.0	75	125				
Cadmium	0.9145	0.0050	1.000		91.4	75	125				
Chromium	0.8908	0.0100	1.000		89.1	75	125				
Copper	0.8816	0.0100	1.000		88.2	75	125				
Iron	15.89	0.100	10.00	7.610	82.8	75	125				
Lead	0.8637	0.0100	1.000		86.4	75	125				
Nickel	0.9026	0.0200	1.000	0.02962	87.3	75	125				
Zinc	0.9085	0.0200	1.000	0.009270	89.9	75	125				

Sample ID: **1802K30-002EMSD** Client ID: Units: **mg/L** Prep Date: **02/26/2018** Run No: **364064**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010D** BatchID: **256423** Analysis Date: **02/27/2018** Seq No: **8046182**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9338	0.0200	1.000		93.4	75	125	0.9333	0.045	20	
Arsenic	0.9252	0.0500	1.000		92.5	75	125	0.9202	0.544	20	
Barium	2.251	0.0200	1.000	1.383	86.7	75	125	2.265	0.644	20	
Beryllium	0.8878	0.0100	1.000		88.8	75	125	0.8801	0.862	20	
Cadmium	0.9244	0.0050	1.000		92.4	75	125	0.9145	1.07	20	
Chromium	0.9010	0.0100	1.000		90.1	75	125	0.8908	1.13	20	
Copper	0.8944	0.0100	1.000		89.4	75	125	0.8816	1.44	20	
Iron	15.88	0.100	10.00	7.610	82.7	75	125	15.89	0.045	20	
Lead	0.8758	0.0100	1.000		87.6	75	125	0.8637	1.38	20	
Nickel	0.9143	0.0200	1.000	0.02962	88.5	75	125	0.9026	1.28	20	
Zinc	0.9228	0.0200	1.000	0.009270	91.4	75	125	0.9085	1.57	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K31

ANALYTICAL QC SUMMARY REPORT

BatchID: 256437

Sample ID: **MB-256437** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363806**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256437** Analysis Date: **02/23/2018** Seq No: **8041568**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	5.0									
Carbon disulfide	BRL	5.0									
Ethylbenzene	BRL	5.0									
Toluene	BRL	5.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	48.87	0	50.00		97.7	68	127				
Surr: Dibromofluoromethane	53.88	0	50.00		108	84.4	122				
Surr: Toluene-d8	52.64	0	50.00		105	80.1	116				

Sample ID: **LCS-256437** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363806**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256437** Analysis Date: **02/23/2018** Seq No: **8041567**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	39.54	5.0	50.00		79.1	73.7	126				
Toluene	39.86	5.0	50.00		79.7	76.8	125				
Surr: 4-Bromofluorobenzene	48.97	0	50.00		97.9	68	127				
Surr: Dibromofluoromethane	52.50	0	50.00		105	84.4	122				
Surr: Toluene-d8	50.96	0	50.00		102	80.1	116				

Sample ID: **1802H80-001AMS** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363806**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256437** Analysis Date: **02/23/2018** Seq No: **8041574**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	58.11	5.0	50.00	4.900	106	66.1	137				
Toluene	54.56	5.0	50.00		109	63.8	141				
Surr: 4-Bromofluorobenzene	48.40	0	50.00		96.8	68	127				
Surr: Dibromofluoromethane	51.55	0	50.00		103	84.4	122				
Surr: Toluene-d8	51.30	0	50.00		103	80.1	116				

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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K31

ANALYTICAL QC SUMMARY REPORT

BatchID: 256437

Sample ID: **1802H80-001AMSD** Client ID:
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **ug/L** Prep Date: **02/23/2018** Run No: **363806**
BatchID: **256437** Analysis Date: **02/23/2018** Seq No: **8041576**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	58.30	5.0	50.00	4.900	107	66.1	137	58.11	0.326	20	
Toluene	55.64	5.0	50.00		111	63.8	141	54.56	1.96	20	
Surr: 4-Bromofluorobenzene	48.53	0	50.00		97.1	68	127	48.40	0	0	
Surr: Dibromofluoromethane	51.55	0	50.00		103	84.4	122	51.55	0	0	
Surr: Toluene-d8	51.78	0	50.00		104	80.1	116	51.30	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K31

ANALYTICAL QC SUMMARY REPORT

BatchID: 256463

Sample ID: **MB-256463**	Client ID:				Units: **ug/L**		Prep Date: **02/26/2018**		Run No: **363983**
SampleType: **MBLK**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256463**		Analysis Date: **02/26/2018**		Seq No: **8044004**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	BRL	4.0									

Sample ID: **LCS-256463**	Client ID:				Units: **ug/L**		Prep Date: **02/26/2018**		Run No: **363983**
SampleType: **LCS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256463**		Analysis Date: **02/26/2018**		Seq No: **8044005**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	110.6	4.0	200.0		55.3	45.1	115				

Sample ID: **LCSD-256463**	Client ID:				Units: **ug/L**		Prep Date: **02/26/2018**		Run No: **363983**
SampleType: **LCSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256463**		Analysis Date: **02/26/2018**		Seq No: **8044006**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	104.7	4.0	200.0		52.3	45.1	115	110.6	5.47	20	

Sample ID: **1802K30-002DMS**	Client ID:				Units: **ug/L**		Prep Date: **02/26/2018**		Run No: **363983**
SampleType: **MS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256463**		Analysis Date: **02/26/2018**		Seq No: **8044010**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	140.4	4.0	200.0	40.40	50.0	42	115				

Sample ID: **1802K30-002DMSD**	Client ID:				Units: **ug/L**		Prep Date: **02/26/2018**		Run No: **363983**
SampleType: **MSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256463**		Analysis Date: **02/26/2018**		Seq No: **8044011**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	135.5	4.0	200.0	40.40	47.5	42	115	140.4	3.55	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K31

ANALYTICAL QC SUMMARY REPORT

BatchID: 256492

Sample ID: **MB-256492**	Client ID:			Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **363957**
SampleType: **MBLK**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **256492**	Analysis Date: **02/26/2018**	Seq No: **8043250**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	2.00									

Sample ID: **LCS-256492**	Client ID:			Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **363957**
SampleType: **LCS**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **256492**	Analysis Date: **02/26/2018**	Seq No: **8043251**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	372.0	2.00	372.0		100	70	130				

Sample ID: **1802K30-002HMS**	Client ID:			Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **363957**
SampleType: **MS**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **256492**	Analysis Date: **02/26/2018**	Seq No: **8043288**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	18.00	2.00	18.60		96.8	62.8	125				

Sample ID: **1802K30-002HMSD**	Client ID:			Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **363957**
SampleType: **MSD**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **256492**	Analysis Date: **02/26/2018**	Seq No: **8043290**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	18.40	2.00	18.60		98.9	62.8	125	18.00	2.20	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K31

ANALYTICAL QC SUMMARY REPORT

BatchID: 256494

Sample ID: **MB-256494**	Client ID:				Units: **mg/L**		Prep Date: **02/26/2018**		Run No: **363959**
SampleType: **MBLK**	TestCode: **Cyanide SW9014**				BatchID: **256494**		Analysis Date: **02/26/2018**		Seq No: **8043349**

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

Sample ID: **LCS-256494**	Client ID:				Units: **mg/L**		Prep Date: **02/26/2018**		Run No: **363959**
SampleType: **LCS**	TestCode: **Cyanide SW9014**				BatchID: **256494**		Analysis Date: **02/26/2018**		Seq No: **8043350**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2460	0.010	0.2500		98.4	85	115				

Sample ID: **1802K30-002FMS**	Client ID:				Units: **mg/L**		Prep Date: **02/26/2018**		Run No: **363959**
SampleType: **MS**	TestCode: **Cyanide SW9014**				BatchID: **256494**		Analysis Date: **02/26/2018**		Seq No: **8043368**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2520	0.010	0.2500		101	70	130				

Sample ID: **1802K30-002FMSD**	Client ID:				Units: **mg/L**		Prep Date: **02/26/2018**		Run No: **363959**
SampleType: **MSD**	TestCode: **Cyanide SW9014**				BatchID: **256494**		Analysis Date: **02/26/2018**		Seq No: **8043369**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2550	0.010	0.2500		102	70	130	0.2520	1.18	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K31

ANALYTICAL QC SUMMARY REPORT

BatchID: 256717

Sample ID: **MB-256717**	Client ID:				Units: **mg/L**		Prep Date: **03/01/2018**		Run No: **364304**
SampleType: **MBLK**	TestCode: **Mercury, Total SW7470A**				BatchID: **256717**		Analysis Date: **03/02/2018**		Seq No: **8052362**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020									

Sample ID: **LCS-256717**	Client ID:				Units: **mg/L**		Prep Date: **03/01/2018**		Run No: **364304**
SampleType: **LCS**	TestCode: **Mercury, Total SW7470A**				BatchID: **256717**		Analysis Date: **03/02/2018**		Seq No: **8052363**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004283	0.00020	0.0040		107	80	120				

Sample ID: **1802M18-001CMS**	Client ID:				Units: **mg/L**		Prep Date: **03/01/2018**		Run No: **364304**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**				BatchID: **256717**		Analysis Date: **03/02/2018**		Seq No: **8052365**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004621	0.00020	0.0040	0.0002899	108	70	130				

Sample ID: **1802M18-001CMSD**	Client ID:				Units: **mg/L**		Prep Date: **03/01/2018**		Run No: **364304**
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**				BatchID: **256717**		Analysis Date: **03/02/2018**		Seq No: **8052366**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004657	0.00020	0.0040	0.0002899	109	70	130	0.004621	0.790	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K31

ANALYTICAL QC SUMMARY REPORT

BatchID: R363915

Sample ID: **MB-R363915**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **MBLK**	TestCode: **Ferrous Iron**					BatchID: **R363915**		Analysis Date: **02/21/2018**		Seq No: **8042203**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R363915**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **LCS**	TestCode: **Ferrous Iron**					BatchID: **R363915**		Analysis Date: **02/21/2018**		Seq No: **8042204**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5060	0.100	0.5000		101	85	115				

Sample ID: **1802J52-001IMS**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **MS**	TestCode: **Ferrous Iron**					BatchID: **R363915**		Analysis Date: **02/21/2018**		Seq No: **8042224**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5170	0.100	0.5000		103	80	120				

Sample ID: **1802K30-002GMS**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **MS**	TestCode: **Ferrous Iron**					BatchID: **R363915**		Analysis Date: **02/22/2018**		Seq No: **8042229**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	9.820	1.00	5.000	4.480	107	80	120				

Sample ID: **1802J52-001IMSD**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **MSD**	TestCode: **Ferrous Iron**					BatchID: **R363915**		Analysis Date: **02/21/2018**		Seq No: **8042226**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.4970	0.100	0.5000		99.4	80	120	0.5170	3.94	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K31

ANALYTICAL QC SUMMARY REPORT

BatchID: **R363915**

Sample ID: **1802K30-002GMSD** Client ID: Units: **mg/L** Prep Date: Run No: **363915**
SampleType: **MSD** TestCode: **Ferrous Iron** BatchID: **R363915** Analysis Date: **02/22/2018** Seq No: **8042231**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	9.950	1.00	5.000	4.480	109	80	120	9.820	1.32	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K31

ANALYTICAL QC SUMMARY REPORT

BatchID: R363962

Sample ID: **MB-R363962** Client ID: Units: **mg/L** Prep Date: Run No: **363962**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R363962** Analysis Date: **02/22/2018** Seq No: **8043487**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R363962** Client ID: Units: **mg/L** Prep Date: Run No: **363962**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R363962** Analysis Date: **02/22/2018** Seq No: **8043486**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.868	0.25	5.000		97.4	90	110				
Sulfate	24.53	1.0	25.00		98.1	90	110				

Sample ID: **1802K30-002IMS** Client ID: Units: **mg/L** Prep Date: Run No: **363962**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R363962** Analysis Date: **02/23/2018** Seq No: **8043519**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	48.05	2.5	50.00		96.1	90	110				
Sulfate	229.5	10	250.0	3.740	90.3	90	110				

Sample ID: **1802K33-001IMS** Client ID: Units: **mg/L** Prep Date: Run No: **363962**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R363962** Analysis Date: **02/23/2018** Seq No: **8043513**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	49.21	2.5	50.00	0.5841	97.2	90	110				
Sulfate	454.8	10	250.0	315.9	55.5	90	110				S

Sample ID: **1802K33-001IMSD** Client ID: Units: **mg/L** Prep Date: Run No: **363962**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R363962** Analysis Date: **02/23/2018** Seq No: **8043514**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	49.77	2.5	50.00	0.5841	98.4	90	110	49.21	1.14	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K31

ANALYTICAL QC SUMMARY REPORT

BatchID: R363962

Sample ID: **1802K33-001IMSD** Client ID:
SampleType: **MSD** TestCode: **ION SCAN SW9056A**
Units: **mg/L** Prep Date: Run No: **363962**
BatchID: **R363962** Analysis Date: **02/23/2018** Seq No: **8043514**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	450.5	10	250.0	315.9	53.8	90	110	454.8	0.947	20	S

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.

March 09, 2018

Adria Reimer
ERM-Southeast

3200 Windy Hill Rd
Atlanta GA 30339

RE: AGLC-Macon

Dear Adria Reimer: Order No: 1802K32

Analytical Environmental Services, Inc. received 6 samples on 2/22/2018 9:05:00 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's accreditations are as follows:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.
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.

Sincerely,

Mirzeta Kararic

Mirzeta Kararic

Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
AES Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: MP 8/22 1802K33 1802K33

Date: 2/21/18 Page 1 of 1

COMPANY:	ADDRESS:
ERM	3200 Windy Hill Rd. SE Atlanta, GA 30339
PHONE: 678-486-2700	EMAIL: Adria.Reimer@ERM.com
SAMPLED BY: H. Beaugh/T. Payne/E. Gant	SIGNATURE: Hank Beaugh

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	Sulfide	Ferrous Iron	Nitrate/Sulfate	Cyanide	Metals/Mercury	SVOCs	O_2, N_2, CO, CO_2	Methane	VOCs	REMARKS	Number of Containers
	PRESERVATION (see codes)						O	I	I	O	N	I	O	H+I	H+I		
1	AMW-6-20180221-01	2/21/18	1105	X		GW	1	1	1	1	1	2	2	2	2		13
2	AMW-15-20180221-01		1155				1	1	1	1	1	2	2	2	2		
3	MW-11-20180221-01		1215				1	1	1	1	1	2	2	2	2		
4	DUP-2-20180221-01		—				1	1	1	1	1	2	2	2	2	Duplicate	
5	TB-3-20180221-01		—			W	0	0	0	0	0	0	0	0	2	Trip Blank	2
6	TB-4-20180221-01		—			W	0	0	0	0	0	0	0	0	2	Trip Blank	2
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1.	02/21/18 1918	1. Monique A.	2/22/18 9:05am
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client FedEx UPS US mail courier Greyhound
other: _____

PROJECT INFORMATION
PROJECT NAME: AGL - Macon
PROJECT #: 0366660
SITE ADDRESS: 137 Mulberry St. Macon, GA
SEND REPORT TO: Adria.Reimer@erm.com
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers: 56

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

STATE PROGRAM (if any): GA
E-mail? [x] Fax? [ ]
DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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

Client: ERM-Southeast
Project: AGLC-Macon
Lab ID: 1802K32

Case Narrative

The collection time on sample 1802K32-001B had 10:50 on sample label. Sample was login according to the COC.

PAH Analysis by Method 8270D-SIM:

Matrix spike and matrix spike duplicate analyses were not performed with Batch 256248 due to insufficient sample volume.

Ferrous Iron by SM3500Fe-B:

Method 3500Fe-B as listed in Standard Methods for the Examination of Water and Wastewater 22nd Edition is applicable for analyzing Ferrous Iron in the field. Samples were analyzed in the laboratory which is a deviation from the method.

Analytical Environmental Services, Inc **Date:** 9-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	AMW-6-20180221-01
Project Name:	AGLC-Macon	**Collection Date:**	2/21/2018 11:05:00 AM
Lab ID:	1802K32-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256510	1	02/27/2018 06:41	NP
Carbon disulfide	BRL	5.0		ug/L	256510	1	02/27/2018 06:41	NP
Ethylbenzene	BRL	5.0		ug/L	256510	1	02/27/2018 06:41	NP
Toluene	BRL	5.0		ug/L	256510	1	02/27/2018 06:41	NP
Xylenes, Total	BRL	5.0		ug/L	256510	1	02/27/2018 06:41	NP
Surr: 4-Bromofluorobenzene	93.8	68-127		%REC	256510	1	02/27/2018 06:41	NP
Surr: Dibromofluoromethane	99.9	84.4-122		%REC	256510	1	02/27/2018 06:41	NP
Surr: Toluene-d8	102	80.1-116		%REC	256510	1	02/27/2018 06:41	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256591	1	02/27/2018 15:30	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256248	1	02/23/2018 14:36	YH
Acenaphthylene	BRL	1.0		ug/L	256248	1	02/23/2018 14:36	YH
Acenaphthene	BRL	0.50		ug/L	256248	1	02/23/2018 14:36	YH
Fluorene	BRL	0.10		ug/L	256248	1	02/23/2018 14:36	YH
Phenanthrene	BRL	0.050		ug/L	256248	1	02/23/2018 14:36	YH
Anthracene	0.050	0.050		ug/L	256248	1	02/23/2018 14:36	YH
Fluoranthene	BRL	0.10		ug/L	256248	1	02/23/2018 14:36	YH
Pyrene	BRL	0.050		ug/L	256248	1	02/23/2018 14:36	YH
Benz(a)anthracene	BRL	0.050		ug/L	256248	1	02/23/2018 14:36	YH
Chrysene	BRL	0.050		ug/L	256248	1	02/23/2018 14:36	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256248	1	02/23/2018 14:36	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256248	1	02/23/2018 14:36	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256248	1	02/23/2018 14:36	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256248	1	02/23/2018 14:36	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256248	1	02/23/2018 14:36	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256248	1	02/23/2018 14:36	YH
Surr: 4-Terphenyl-d14	108	59.9-128		%REC	256248	1	02/23/2018 14:36	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256350	1	02/23/2018 19:17	YH
2-Methylphenol	BRL	10		ug/L	256350	1	02/23/2018 19:17	YH
3,4-Methylphenol	BRL	10		ug/L	256350	1	02/23/2018 19:17	YH
Phenol	BRL	10		ug/L	256350	1	02/23/2018 19:17	YH
Surr: 2,4,6-Tribromophenol	96.7	51.4-138		%REC	256350	1	02/23/2018 19:17	YH
Surr: 2-Fluorobiphenyl	91	44.6-119		%REC	256350	1	02/23/2018 19:17	YH
Surr: 2-Fluorophenol	79.2	27.2-120		%REC	256350	1	02/23/2018 19:17	YH
Surr: 4-Terphenyl-d14	110	47.1-136		%REC	256350	1	02/23/2018 19:17	YH
Surr: Nitrobenzene-d5	86.3	40.7-119		%REC	256350	1	02/23/2018 19:17	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- 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:** 9-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	AMW-6-20180221-01
Project Name:	AGLC-Macon	**Collection Date:**	2/21/2018 11:05:00 AM
Lab ID:	1802K32-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	66.8	18.1-120		%REC	256350	1	02/23/2018 19:17	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256717	1	03/02/2018 03:30	AS
ION SCAN SW9056A								
Nitrate	1.5	0.25		mg/L	R363962	1	02/22/2018 16:08	MP
Sulfate	160	10		mg/L	R363962	10	02/22/2018 21:14	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	7.7	4.0		ug/L	256463	1	02/26/2018 14:31	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	0.188	0.100		mg/L	R363915	1	02/22/2018 10:00	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	BRL	0.010		mg/L	256541	1	02/27/2018 16:00	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256423	1	02/27/2018 17:30	JR
Arsenic	BRL	0.0500		mg/L	256423	1	02/27/2018 17:30	JR
Barium	0.0360	0.0200		mg/L	256423	1	02/27/2018 17:30	JR
Beryllium	BRL	0.0100		mg/L	256423	1	02/27/2018 17:30	JR
Cadmium	BRL	0.0050		mg/L	256423	1	02/27/2018 17:30	JR
Chromium	BRL	0.0100		mg/L	256423	1	02/27/2018 17:30	JR
Copper	BRL	0.0100		mg/L	256423	1	02/27/2018 17:30	JR
Iron	0.487	0.100		mg/L	256423	1	02/27/2018 17:30	JR
Lead	BRL	0.0100		mg/L	256423	1	02/27/2018 17:30	JR
Nickel	BRL	0.0200		mg/L	256423	1	02/27/2018 17:30	JR
Zinc	BRL	0.0200		mg/L	256423	1	02/27/2018 17:30	JR

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:** 9-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	AMW-15-20180221-01
Project Name:	AGLC-Macon	**Collection Date:**	2/21/2018 11:55:00 AM
Lab ID:	1802K32-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	100	5.0		ug/L	256510	1	02/27/2018 07:04	NP
Carbon disulfide	BRL	5.0		ug/L	256510	1	02/27/2018 07:04	NP
Ethylbenzene	19	5.0		ug/L	256510	1	02/27/2018 07:04	NP
Toluene	BRL	5.0		ug/L	256510	1	02/27/2018 07:04	NP
Xylenes, Total	13	5.0		ug/L	256510	1	02/27/2018 07:04	NP
Surr: 4-Bromofluorobenzene	100	68-127		%REC	256510	1	02/27/2018 07:04	NP
Surr: Dibromofluoromethane	99.8	84.4-122		%REC	256510	1	02/27/2018 07:04	NP
Surr: Toluene-d8	106	80.1-116		%REC	256510	1	02/27/2018 07:04	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256591	1	02/27/2018 15:30	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	32	5.0		ug/L	256355	10	02/28/2018 13:25	YH
Acenaphthylene	3.4	1.0		ug/L	256355	1	02/26/2018 19:31	YH
Acenaphthene	26	5.0		ug/L	256355	10	02/28/2018 13:25	YH
Fluorene	8.1	0.10		ug/L	256355	1	02/26/2018 19:31	YH
Phenanthrene	7.4	0.050		ug/L	256355	1	02/26/2018 19:31	YH
Anthracene	1.1	0.050		ug/L	256355	1	02/26/2018 19:31	YH
Fluoranthene	0.54	0.10		ug/L	256355	1	02/26/2018 19:31	YH
Pyrene	0.45	0.050		ug/L	256355	1	02/26/2018 19:31	YH
Benz(a)anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 19:31	YH
Chrysene	BRL	0.050		ug/L	256355	1	02/26/2018 19:31	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 19:31	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256355	1	02/26/2018 19:31	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 19:31	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 19:31	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256355	1	02/26/2018 19:31	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256355	1	02/26/2018 19:31	YH
Surr: 4-Terphenyl-d14	101	59.9-128		%REC	256355	1	02/26/2018 19:31	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256350	1	02/23/2018 19:44	YH
2-Methylphenol	BRL	10		ug/L	256350	1	02/23/2018 19:44	YH
3,4-Methylphenol	BRL	10		ug/L	256350	1	02/23/2018 19:44	YH
Phenol	BRL	10		ug/L	256350	1	02/23/2018 19:44	YH
Surr: 2,4,6-Tribromophenol	88.2	51.4-138		%REC	256350	1	02/23/2018 19:44	YH
Surr: 2-Fluorobiphenyl	82.9	44.6-119		%REC	256350	1	02/23/2018 19:44	YH
Surr: 2-Fluorophenol	72.2	27.2-120		%REC	256350	1	02/23/2018 19:44	YH
Surr: 4-Terphenyl-d14	103	47.1-136		%REC	256350	1	02/23/2018 19:44	YH
Surr: Nitrobenzene-d5	79	40.7-119		%REC	256350	1	02/23/2018 19:44	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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Analytical Environmental Services, Inc **Date:** 9-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	AMW-15-20180221-01
Project Name:	AGLC-Macon	**Collection Date:**	2/21/2018 11:55:00 AM
Lab ID:	1802K32-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	56.6	18.1-120		%REC	256350	1	02/23/2018 19:44	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256493	1	02/27/2018 19:57	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363962	1	02/22/2018 17:07	MP
Sulfate	10	1.0		mg/L	R363962	1	02/22/2018 17:07	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	46	4.0		ug/L	256463	1	02/26/2018 14:35	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	1.54	0.100		mg/L	R363918	1	02/22/2018 09:30	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	256541	1	02/27/2018 16:00	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256423	1	02/27/2018 17:34	JR
Arsenic	BRL	0.0500		mg/L	256423	1	02/27/2018 17:34	JR
Barium	0.175	0.0200		mg/L	256423	1	02/27/2018 17:34	JR
Beryllium	BRL	0.0100		mg/L	256423	1	02/27/2018 17:34	JR
Cadmium	BRL	0.0050		mg/L	256423	1	02/27/2018 17:34	JR
Chromium	BRL	0.0100		mg/L	256423	1	02/27/2018 17:34	JR
Copper	BRL	0.0100		mg/L	256423	1	02/27/2018 17:34	JR
Iron	2.17	0.100		mg/L	256423	1	02/27/2018 17:34	JR
Lead	BRL	0.0100		mg/L	256423	1	02/27/2018 17:34	JR
Nickel	BRL	0.0200		mg/L	256423	1	02/27/2018 17:34	JR
Zinc	BRL	0.0200		mg/L	256423	1	02/27/2018 17:34	JR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- 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:** 9-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-11-20180221-01
Project Name:	AGLC-Macon	**Collection Date:**	2/21/2018 12:15:00 PM
Lab ID:	1802K32-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256510	1	02/27/2018 07:29	NP
Carbon disulfide	BRL	5.0		ug/L	256510	1	02/27/2018 07:29	NP
Ethylbenzene	BRL	5.0		ug/L	256510	1	02/27/2018 07:29	NP
Toluene	BRL	5.0		ug/L	256510	1	02/27/2018 07:29	NP
Xylenes, Total	BRL	5.0		ug/L	256510	1	02/27/2018 07:29	NP
Surr: 4-Bromofluorobenzene	96.8	68-127		%REC	256510	1	02/27/2018 07:29	NP
Surr: Dibromofluoromethane	102	84.4-122		%REC	256510	1	02/27/2018 07:29	NP
Surr: Toluene-d8	103	80.1-116		%REC	256510	1	02/27/2018 07:29	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256591	1	02/27/2018 15:30	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256355	1	02/26/2018 19:57	YH
Acenaphthylene	BRL	1.0		ug/L	256355	1	02/26/2018 19:57	YH
Acenaphthene	BRL	0.50		ug/L	256355	1	02/26/2018 19:57	YH
Fluorene	BRL	0.10		ug/L	256355	1	02/26/2018 19:57	YH
Phenanthrene	BRL	0.050		ug/L	256355	1	02/26/2018 19:57	YH
Anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 19:57	YH
Fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 19:57	YH
Pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 19:57	YH
Benz(a)anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 19:57	YH
Chrysene	BRL	0.050		ug/L	256355	1	02/26/2018 19:57	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 19:57	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256355	1	02/26/2018 19:57	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 19:57	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 19:57	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256355	1	02/26/2018 19:57	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256355	1	02/26/2018 19:57	YH
Surr: 4-Terphenyl-d14	117	59.9-128		%REC	256355	1	02/26/2018 19:57	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256350	1	02/23/2018 20:09	YH
2-Methylphenol	BRL	10		ug/L	256350	1	02/23/2018 20:09	YH
3,4-Methylphenol	BRL	10		ug/L	256350	1	02/23/2018 20:09	YH
Phenol	BRL	10		ug/L	256350	1	02/23/2018 20:09	YH
Surr: 2,4,6-Tribromophenol	72.3	51.4-138		%REC	256350	1	02/23/2018 20:09	YH
Surr: 2-Fluorobiphenyl	69.2	44.6-119		%REC	256350	1	02/23/2018 20:09	YH
Surr: 2-Fluorophenol	61.1	27.2-120		%REC	256350	1	02/23/2018 20:09	YH
Surr: 4-Terphenyl-d14	86.5	47.1-136		%REC	256350	1	02/23/2018 20:09	YH
Surr: Nitrobenzene-d5	68.4	40.7-119		%REC	256350	1	02/23/2018 20:09	YH

Qualifiers:

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- Narr See case narrative
- NC Not confirmed
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Analytical Environmental Services, Inc **Date:** 9-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-11-20180221-01
Project Name:	AGLC-Macon	**Collection Date:**	2/21/2018 12:15:00 PM
Lab ID:	1802K32-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	51.3	18.1-120		%REC	256350	1	02/23/2018 20:09	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256493	1	02/27/2018 19:35	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363962	1	02/22/2018 17:22	MP
Sulfate	120	10		mg/L	R363962	10	02/22/2018 21:29	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	73	4.0		ug/L	256463	1	02/26/2018 14:40	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	0.265	0.100		mg/L	R363915	1	02/22/2018 10:00	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	BRL	0.010		mg/L	256541	1	02/27/2018 16:00	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256423	1	02/27/2018 17:37	JR
Arsenic	BRL	0.0500		mg/L	256423	1	02/27/2018 17:37	JR
Barium	0.0487	0.0200		mg/L	256423	1	02/27/2018 17:37	JR
Beryllium	BRL	0.0100		mg/L	256423	1	02/27/2018 17:37	JR
Cadmium	0.0133	0.0050		mg/L	256423	1	02/27/2018 17:37	JR
Chromium	BRL	0.0100		mg/L	256423	1	02/27/2018 17:37	JR
Copper	BRL	0.0100		mg/L	256423	1	02/27/2018 17:37	JR
Iron	1.07	0.100		mg/L	256423	1	02/27/2018 17:37	JR
Lead	BRL	0.0100		mg/L	256423	1	02/27/2018 17:37	JR
Nickel	BRL	0.0200		mg/L	256423	1	02/27/2018 17:37	JR
Zinc	0.0258	0.0200		mg/L	256423	1	02/27/2018 17:37	JR

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- Narr See case narrative
- NC Not confirmed
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Analytical Environmental Services, Inc **Date:** 9-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	DUP-2-20180221-01
Project Name:	AGLC-Macon	**Collection Date:**	2/21/2018
Lab ID:	1802K32-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256510	1	02/27/2018 07:53	NP
Carbon disulfide	BRL	5.0		ug/L	256510	1	02/27/2018 07:53	NP
Ethylbenzene	BRL	5.0		ug/L	256510	1	02/27/2018 07:53	NP
Toluene	BRL	5.0		ug/L	256510	1	02/27/2018 07:53	NP
Xylenes, Total	BRL	5.0		ug/L	256510	1	02/27/2018 07:53	NP
Surr: 4-Bromofluorobenzene	95.9	68-127		%REC	256510	1	02/27/2018 07:53	NP
Surr: Dibromofluoromethane	101	84.4-122		%REC	256510	1	02/27/2018 07:53	NP
Surr: Toluene-d8	103	80.1-116		%REC	256510	1	02/27/2018 07:53	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256591	1	02/28/2018 11:20	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256355	1	02/26/2018 20:24	YH
Acenaphthylene	BRL	1.0		ug/L	256355	1	02/26/2018 20:24	YH
Acenaphthene	BRL	0.50		ug/L	256355	1	02/26/2018 20:24	YH
Fluorene	BRL	0.10		ug/L	256355	1	02/26/2018 20:24	YH
Phenanthrene	BRL	0.050		ug/L	256355	1	02/26/2018 20:24	YH
Anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 20:24	YH
Fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 20:24	YH
Pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 20:24	YH
Benz(a)anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 20:24	YH
Chrysene	BRL	0.050		ug/L	256355	1	02/26/2018 20:24	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 20:24	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256355	1	02/26/2018 20:24	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 20:24	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 20:24	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256355	1	02/26/2018 20:24	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256355	1	02/26/2018 20:24	YH
Surr: 4-Terphenyl-d14	108	59.9-128		%REC	256355	1	02/26/2018 20:24	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256350	1	02/23/2018 20:34	YH
2-Methylphenol	BRL	10		ug/L	256350	1	02/23/2018 20:34	YH
3,4-Methylphenol	BRL	10		ug/L	256350	1	02/23/2018 20:34	YH
Phenol	BRL	10		ug/L	256350	1	02/23/2018 20:34	YH
Surr: 2,4,6-Tribromophenol	65.5	51.4-138		%REC	256350	1	02/23/2018 20:34	YH
Surr: 2-Fluorobiphenyl	62.2	44.6-119		%REC	256350	1	02/23/2018 20:34	YH
Surr: 2-Fluorophenol	52.5	27.2-120		%REC	256350	1	02/23/2018 20:34	YH
Surr: 4-Terphenyl-d14	75.9	47.1-136		%REC	256350	1	02/23/2018 20:34	YH
Surr: Nitrobenzene-d5	60.5	40.7-119		%REC	256350	1	02/23/2018 20:34	YH

Qualifiers:

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- Narr See case narrative
- NC Not confirmed
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- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 9-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	DUP-2-20180221-01
Project Name:	AGLC-Macon	**Collection Date:**	2/21/2018
Lab ID:	1802K32-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	39.3	18.1-120		%REC	256350	1	02/23/2018 20:34	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256493	1	02/27/2018 19:31	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363962	1	02/22/2018 17:37	MP
Sulfate	110	10		mg/L	R363962	10	02/26/2018 12:31	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	59	4.0		ug/L	256463	1	02/26/2018 14:46	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	0.142	0.100		mg/L	R363915	1	02/22/2018 10:00	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	BRL	0.010		mg/L	256541	1	02/27/2018 16:00	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256423	1	02/27/2018 17:40	JR
Arsenic	BRL	0.0500		mg/L	256423	1	02/27/2018 17:40	JR
Barium	0.0485	0.0200		mg/L	256423	1	02/27/2018 17:40	JR
Beryllium	BRL	0.0100		mg/L	256423	1	02/27/2018 17:40	JR
Cadmium	0.0132	0.0050		mg/L	256423	1	02/27/2018 17:40	JR
Chromium	BRL	0.0100		mg/L	256423	1	02/27/2018 17:40	JR
Copper	BRL	0.0100		mg/L	256423	1	02/27/2018 17:40	JR
Iron	1.11	0.100		mg/L	256423	1	02/27/2018 17:40	JR
Lead	BRL	0.0100		mg/L	256423	1	02/27/2018 17:40	JR
Nickel	BRL	0.0200		mg/L	256423	1	02/27/2018 17:40	JR
Zinc	0.0284	0.0200		mg/L	256423	1	02/27/2018 17:40	JR

Qualifiers:

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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:** 9-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-3-20180221-01
Project Name:	AGLC-Macon	**Collection Date:**	2/21/2018
Lab ID:	1802K32-005	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256510	1	02/27/2018 00:15	NP
Carbon disulfide	BRL	5.0		ug/L	256510	1	02/27/2018 00:15	NP
Ethylbenzene	BRL	5.0		ug/L	256510	1	02/27/2018 00:15	NP
Toluene	BRL	5.0		ug/L	256510	1	02/27/2018 00:15	NP
Xylenes, Total	BRL	5.0		ug/L	256510	1	02/27/2018 00:15	NP
Surr: 4-Bromofluorobenzene	95.9	68-127		%REC	256510	1	02/27/2018 00:15	NP
Surr: Dibromofluoromethane	100	84.4-122		%REC	256510	1	02/27/2018 00:15	NP
Surr: Toluene-d8	104	80.1-116		%REC	256510	1	02/27/2018 00:15	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:** 9-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-4-20180221-01
Project Name:	AGLC-Macon	**Collection Date:**	2/21/2018
Lab ID:	1802K32-006	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256510	1	02/27/2018 00:39	NP
Carbon disulfide	BRL	5.0		ug/L	256510	1	02/27/2018 00:39	NP
Ethylbenzene	BRL	5.0		ug/L	256510	1	02/27/2018 00:39	NP
Toluene	BRL	5.0		ug/L	256510	1	02/27/2018 00:39	NP
Xylenes, Total	BRL	5.0		ug/L	256510	1	02/27/2018 00:39	NP
Surr: 4-Bromofluorobenzene	97.1	68-127		%REC	256510	1	02/27/2018 00:39	NP
Surr: Dibromofluoromethane	100	84.4-122		%REC	256510	1	02/27/2018 00:39	NP
Surr: Toluene-d8	101	80.1-116		%REC	256510	1	02/27/2018 00:39	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

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

March 8, 2018

Mirzeta Kararic
Analytical Environmental Services, Inc.
3785 Presidential Parkway
Suite 111
Atlanta, GA 30340

RE: **1802K32**

Pace Workorder: 25817

Dear Mirzeta Kararic:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, February 28, 2018. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Ruth Welsh 03/08/2018
Ruth.Welsh@pacelabs.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email PAESfeedback@pacelabs.com.

Total Number of Pages 16

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water
Accreditor:	West Virginia Department of Environmental Protection, Division of Water and Waste Management
Accreditation ID:	395
Scope:	Non-Potable Water
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	State of Virginia
Accreditation ID:	460201
Scope:	Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

Pace Analytical Energy Services LLC
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Fax: (412) 826-3433

SAMPLE SUMMARY

Workorder: 25817 1802K32

Lab ID	Sample ID	Matrix	Date Collected	Date Received
258170001	AMW-6-20180221-01	Water	2/21/2018 11:05	2/28/2018 11:45
258170002	AMW-1S-20180221-01	Water	2/21/2018 11:55	2/28/2018 11:45
258170003	MW-11-20180221-01	Water	2/21/2018 12:15	2/28/2018 11:45
258170004	DUP-2-20180221-01	Water	2/21/2018 00:00	2/28/2018 11:45

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

ANALYTICAL RESULTS

Workorder: 25817 1802K32

Lab ID: **258170001** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **AMW-6-20180221-01** Date Collected: 2/21/2018 11:05

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**150**	mg/l	5.0	0.32	1	3/3/2018 13:37	TD	n,M5
Oxygen	**4.4**	mg/l	0.50	0.12	1	3/3/2018 13:37	TD	n
Nitrogen	**19**	mg/l	2.0	0.34	1	3/3/2018 13:37	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/3/2018 13:37	TD	n

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Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

ANALYTICAL RESULTS

Workorder: 25817 1802K32

Lab ID: **258170002** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **AMW-1S-20180221-01** Date Collected: 2/21/2018 11:55

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**88**	mg/l	5.0	0.32	1	3/3/2018 13:49	TD	n,M5
Oxygen	**4.6**	mg/l	0.50	0.12	1	3/3/2018 13:49	TD	n
Nitrogen	**13**	mg/l	2.0	0.34	1	3/3/2018 13:49	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/3/2018 13:49	TD	n

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220 William Pitt Way
Pittsburgh, PA 15238
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Fax: (412) 826-3433

ANALYTICAL RESULTS

Workorder: 25817 1802K32

Lab ID: **258170003** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **MW-11-20180221-01** Date Collected: 2/21/2018 12:15

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**98**	mg/l	5.0	0.32	1	3/3/2018 14:02	TD	n,M5
Oxygen	**7.3**	mg/l	0.50	0.12	1	3/3/2018 14:02	TD	n
Nitrogen	**19**	mg/l	2.0	0.34	1	3/3/2018 14:02	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/3/2018 14:02	TD	n

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ANALYTICAL RESULTS

Workorder: 25817 1802K32

Lab ID: **258170004** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **DUP-2-20180221-01** Date Collected: 2/21/2018 00:00

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**100**	mg/l	5.0	0.32	1	3/3/2018 14:14	TD	n,M5
Oxygen	**6.5**	mg/l	0.50	0.12	1	3/3/2018 14:14	TD	n
Nitrogen	**17**	mg/l	2.0	0.34	1	3/3/2018 14:14	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/3/2018 14:14	TD	n

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 25817 1802K32

DEFINITIONS/QUALIFIERS

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.
M5	The matrix spike duplicate sample recovery was outside laboratory control limits.

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QUALITY CONTROL DATA

Workorder: 25817 1802K32

QC Batch: DISG/6693 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 258170001, 258170002, 258170003, 258170004

METHOD BLANK: 54010

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Carbon Dioxide	mg/l	<5.0	5.0	n,M5
Oxygen	mg/l	<0.50	0.50	n
Nitrogen	mg/l	<2.0	2.0	n
Carbon Monoxide	mg/l	<1.0	1.0	n

LABORATORY CONTROL SAMPLE & LCSD: 54012 54014

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Carbon Dioxide	mg/l	120	140	140	118	116	80-120	1.6	20	M5,n
Oxygen	mg/l	11	10	10	92	93	80-120	0.71	20	n
Nitrogen	mg/l	140	120	120	90	90	80-120	0.17	20	n
Carbon Monoxide	mg/l	2	2.1	2.1	105	107	80-120	1.1	20	n

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54015 54016 Original: 258140001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK											
Carbon Dioxide	mg/l	57	120	200	210	125	133	70-130	4.4	20	n,M5
Oxygen	mg/l	2.3	11	12	14	82	102	70-130	18	20	n
Nitrogen	mg/l	18	140	140	130	87	84	70-130	3.3	20	n
Carbon Monoxide	mg/l	0	2	2.1	2.0	104	102	70-130	2.2	20	n

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54017 54018 Original: 258160002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK											
Carbon Dioxide	mg/l	41	120	170	190	112	126	70-130	9	20	n,M5
Oxygen	mg/l	2.4	11	12	12	82	83	70-130	1.3	20	n
Nitrogen	mg/l	18	140	140	140	86	85	70-130	1	20	n

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Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

QUALITY CONTROL DATA

Workorder: 25817 1802K32

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54017 54018 Original: 258160002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Carbon Monoxide	mg/l	0	2	2.1	2.1	103	105	70-130	1.3	20	n

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 25817 1802K32

QUALITY CONTROL PARAMETER QUALIFIERS

M5	The matrix spike duplicate sample recovery was outside laboratory control limits.
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

Pace Analytical Energy Services LLC
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Pittsburgh, PA 15238
Phone: (412) 826-5245
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 25817 1802K32

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
258170001	AMW-6-20180221-01			AM20GAX	DISG/6693
258170002	AMW-1S-20180221-01			AM20GAX	DISG/6693
258170003	MW-11-20180221-01			AM20GAX	DISG/6693
258170004	DUP-2-20180221-01			AM20GAX	DISG/6693

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

AES

25817

CHAIN OF CUSTODY

Work Order: ______

Date: ______ Page ____ of ____

COMPANY: ↓

ADDRESS: ↓

PHONE:

EMAIL:

SAMPLED BY:

SIGNATURE:

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	ANALYSIS REQUESTED: O_2, N_2, CO, CO_2													REMARKS	Number of Containers
							PRESERVATION (see codes)														
1	AMW-6-20180221-01	2/21/18	11:05	X		GW	X														
2	AMW-15-20180221-01	↓	11:55	X		GW	X														
3	MW-11-20180221-01	↓	12:15	X		GW	X														
4	DUP-2-20180221-01	↓	—	X		GW	X														
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Andrew Stept	2/21/18 5:00	1. [illegible]	2.28.18 11:45
2.		2.	
3.		3.	

PROJECT INFORMATION

PROJECT NAME: 1802K32

PROJECT #:

SITE ADDRESS:

SEND REPORT TO: MKARABIC@AESATLANTA.COM

INVOICE TO:
(IF DIFFERENT FROM ABOVE)

QUOTE #: ______ PO#: ______

RECEIPT

Total # of Containers

Turnaround Time (TAT) Request

- [X] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush (auth req.)
- [ ] Other ______

STATE PROGRAM (if any): ______

E-mail? ☐ Fax? ☐

DATA PACKAGE: I ○ II ○ III ○ IV ○

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT: / / VIA:

IN: / / VIA:

client FedEx UPS US mail courier Greyhound

other: ______

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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

Cooler Receipt Form

Client Name: AES Project: 1802K32 Lab Work Order: 25817

A. Shipping/Container Information (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other: _____ Air bill Present: (Yes) No

Tracking Number: 7249 3168 6734

Custody Seal on Cooler/Box Present: Yes (No) Seals Intact: Yes No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam Other: _____

Type of Ice: (Wet) Blue None Ice Intact: (Yes) Melted

Cooler Temperature: 1°C Radiation Screened: Yes (No) Chain of Custody Present: (Yes) No

Comments: _____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC			✓	
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected				
Sufficient volume provided	✓			
PAES containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	
Headspace present?	✓			

Comments: _____

Cooler contents examined/received by: LY Date: 2.28.18

Project Manager Review: _____ Date: 2/28/18

NON-CONFORMANCE FORM

PAES Work Order #: 25817

Date: 2.28.18 Time of Receipt: 11:45 Receiver: LY

Client: AES

REASON FOR NON-CONFORMANCE:

AMW-6-20180221-01: Original time was 10:50

ACTION TAKEN:

Client name: AES Date: 3/1/18 Time: 10:18

Client was informed

Customer Service Initials: Z Date: 3/1/18

Lauren McGrath - 1802K32 Project 25817 NCM

From: Lauren McGrath
To: mkararic@aesatlanta.com
Date: 3/1/2018 10:17 AM
Subject: 1802K32 Project 25817 NCM

I wanted to inform you that AMW-6-20180221-01 had a sample time of 10:50 on the label but 11:05 written on the COC. We will continue to use the information provided by the COC until instructed otherwise. Thank you.

Lauren McGrath
Project Coordinator
Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
412-826-2378 (D) |412-826-5245 (O)
Lauren.McGrath@pacelabs.com
www.pacelabs.com

Clear Save as

AES ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **ERM-Southeast** AES Work Order Number: **1802H80**

2. Carrier: FedEx ■ UPS ☐ USPS ☐ Client ☐ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	○	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	○	○		
5.	Custody seals intact on shipping container?	○	○	○		
6.	Temperature blanks present?	○	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	○	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	○	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	○	○	○		
10.	Sampler name and/or signature on COC?	○	○	○		
11.	Were all samples received within holding time?	○	○	○		
12.	TAT marked on the COC?	○	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 2.3 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). TD 2/20/18

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	○	○	○		
17.	Custody seals present on sample containers?	○	○	○		
18.	Custody seals intact on sample containers?	○	○	○		
19.	Do sample container labels match the COC?	○	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	○	○	○		
21.	Were all of the samples listed on the COC received?	○	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	○	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	○	○	○		
24.	Were samples received in appropriate containers?	○	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	○	○	○		
26.	Were trip blanks submitted?	○	○	○	listed on COC ■ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). MDP 2/20/18

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	○	○	○		
29.	Containers meet preservation guidelines?	○	○	○		
30.	Was pH adjusted at Sample Receipt?	○	○	○		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). MDP 2/20/18

Checklist 6.9.17 Rev 2

Locked

Analytical Environmental Services, Inc

Date: 9-Mar-18

Client: ERM-Southeast
Project Name: AGLC-Macon
Lab Order: 1802K32

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802K32-001A	AMW-6-20180221-01	2/21/2018 11:05:00AM	Groundwater	Volatile Organic Compounds by GC/MS		2/26/2018 10:13:00 PM	02/27/2018
1802K32-001B	AMW-6-20180221-01	2/21/2018 11:05:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/22/2018 3:00:00 PM	02/23/2018
1802K32-001B	AMW-6-20180221-01	2/21/2018 11:05:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/23/2018 9:00:00 AM	02/23/2018
1802K32-001D	AMW-6-20180221-01	2/21/2018 11:05:00AM	Groundwater	GC Analysis of Gaseous Samples		2/26/2018 12:39:32 PM	02/26/2018
1802K32-001E	AMW-6-20180221-01	2/21/2018 11:05:00AM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00 AM	02/27/2018
1802K32-001E	AMW-6-20180221-01	2/21/2018 11:05:00AM	Groundwater	TOTAL MERCURY		3/1/2018 9:38:00 PM	03/02/2018
1802K32-001F	AMW-6-20180221-01	2/21/2018 11:05:00AM	Groundwater	Cyanide		2/27/2018 2:30:00 PM	02/27/2018
1802K32-001G	AMW-6-20180221-01	2/21/2018 11:05:00AM	Groundwater	Ferrous Iron			02/22/2018
1802K32-001H	AMW-6-20180221-01	2/21/2018 11:05:00AM	Groundwater	Sulfide by SW9030/9034		2/27/2018 1:05:00 PM	02/27/2018
1802K32-001I	AMW-6-20180221-01	2/21/2018 11:05:00AM	Groundwater	ION SCAN			02/22/2018
1802K32-002A	AMW-15-20180221-01	2/21/2018 11:55:00AM	Groundwater	Volatile Organic Compounds by GC/MS		2/26/2018 10:13:00 PM	02/27/2018
1802K32-002B	AMW-15-20180221-01	2/21/2018 11:55:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/23/2018 11:00:00 AM	02/26/2018
1802K32-002B	AMW-15-20180221-01	2/21/2018 11:55:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/23/2018 11:00:00 AM	02/28/2018
1802K32-002B	AMW-15-20180221-01	2/21/2018 11:55:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/23/2018 9:00:00 AM	02/23/2018
1802K32-002D	AMW-15-20180221-01	2/21/2018 11:55:00AM	Groundwater	GC Analysis of Gaseous Samples		2/26/2018 12:39:32 PM	02/26/2018
1802K32-002E	AMW-15-20180221-01	2/21/2018 11:55:00AM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00 AM	02/27/2018
1802K32-002E	AMW-15-20180221-01	2/21/2018 11:55:00AM	Groundwater	TOTAL MERCURY		2/27/2018 1:42:00 PM	02/27/2018
1802K32-002F	AMW-15-20180221-01	2/21/2018 11:55:00AM	Groundwater	Cyanide		2/27/2018 2:30:00 PM	02/27/2018
1802K32-002G	AMW-15-20180221-01	2/21/2018 11:55:00AM	Groundwater	Ferrous Iron			02/22/2018
1802K32-002H	AMW-15-20180221-01	2/21/2018 11:55:00AM	Groundwater	Sulfide by SW9030/9034		2/27/2018 1:05:00 PM	02/27/2018
1802K32-002I	AMW-15-20180221-01	2/21/2018 11:55:00AM	Groundwater	ION SCAN			02/22/2018
1802K32-003A	MW-11-20180221-01	2/21/2018 12:15:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/26/2018 10:13:00 PM	02/27/2018
1802K32-003B	MW-11-20180221-01	2/21/2018 12:15:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/23/2018 11:00:00 AM	02/26/2018
1802K32-003B	MW-11-20180221-01	2/21/2018 12:15:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/23/2018 9:00:00 AM	02/23/2018
1802K32-003D	MW-11-20180221-01	2/21/2018 12:15:00PM	Groundwater	GC Analysis of Gaseous Samples		2/26/2018 12:39:32 PM	02/26/2018
1802K32-003E	MW-11-20180221-01	2/21/2018 12:15:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00 AM	02/27/2018
1802K32-003E	MW-11-20180221-01	2/21/2018 12:15:00PM	Groundwater	TOTAL MERCURY		2/27/2018 1:42:00 PM	02/27/2018
1802K32-003F	MW-11-20180221-01	2/21/2018 12:15:00PM	Groundwater	Cyanide		2/27/2018 2:30:00 PM	02/27/2018
1802K32-003G	MW-11-20180221-01	2/21/2018 12:15:00PM	Groundwater	Ferrous Iron			02/22/2018

Client: ERM-Southeast
Project Name: AGLC-Macon
Lab Order: 1802K32

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802K32-003H	MW-11-20180221-01	2/21/2018 12:15:00PM	Groundwater	Sulfide by SW9030/9034		2/27/2018 1:05:00 PM	02/27/2018
1802K32-003I	MW-11-20180221-01	2/21/2018 12:15:00PM	Groundwater	ION SCAN			02/22/2018
1802K32-004A	DUP-2-20180221-01	2/21/2018 12:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		2/26/2018 10:13:00 PM	02/27/2018
1802K32-004B	DUP-2-20180221-01	2/21/2018 12:00:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/23/2018 11:00:00 AM	02/26/2018
1802K32-004B	DUP-2-20180221-01	2/21/2018 12:00:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/23/2018 9:00:00 AM	02/23/2018
1802K32-004D	DUP-2-20180221-01	2/21/2018 12:00:00AM	Groundwater	GC Analysis of Gaseous Samples		2/26/2018 12:39:32 PM	02/26/2018
1802K32-004E	DUP-2-20180221-01	2/21/2018 12:00:00AM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00 AM	02/27/2018
1802K32-004E	DUP-2-20180221-01	2/21/2018 12:00:00AM	Groundwater	TOTAL MERCURY		2/27/2018 1:42:00 PM	02/27/2018
1802K32-004F	DUP-2-20180221-01	2/21/2018 12:00:00AM	Groundwater	Cyanide		2/27/2018 2:30:00 PM	02/27/2018
1802K32-004G	DUP-2-20180221-01	2/21/2018 12:00:00AM	Groundwater	Ferrous Iron			02/22/2018
1802K32-004H	DUP-2-20180221-01	2/21/2018 12:00:00AM	Groundwater	Sulfide by SW9030/9034		2/28/2018 9:00:00 AM	02/28/2018
1802K32-004I	DUP-2-20180221-01	2/21/2018 12:00:00AM	Groundwater	ION SCAN			02/22/2018
1802K32-004I	DUP-2-20180221-01	2/21/2018 12:00:00AM	Groundwater	ION SCAN			02/26/2018
1802K32-005A	TB-3-20180221-01	2/21/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		2/26/2018 10:13:00 PM	02/27/2018
1802K32-006A	TB-4-20180221-01	2/21/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		2/26/2018 10:13:00 PM	02/27/2018

AES, Inc.
3080 Presidential Drive
Atlanta GA 30340

pH Adjustment Sheet

AES Sample ID number	Test Requested	pH as Received	Required pH	Preservative Required	Lot # of Preservative	Amount Added mL or Pellets*	Final pH	Tech's Initials	Date	Time
1802K32-003F	Cyanide	4	>12	NaOH	23290	mL 8 Pellets	12	MP	2/22	7:05PM
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
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						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				

*** Number of Pellets when adding NAOH**

DWM 8/22/2014 10:01 AM

Client: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K32

ANALYTICAL QC SUMMARY REPORT

BatchID: 256248

Sample ID: **MB-256248** Client ID: Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
SampleType: **MBLK** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037285**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	BRL	0.50									
Acenaphthylene	BRL	1.0									
Anthracene	BRL	0.050									
Benz(a)anthracene	BRL	0.050									
Benzo(a)pyrene	BRL	0.050									
Benzo(b)fluoranthene	BRL	0.10									
Benzo(g,h,i)perylene	BRL	0.10									
Benzo(k)fluoranthene	BRL	0.050									
Chrysene	BRL	0.050									
Dibenz(a,h)anthracene	BRL	0.10									
Fluoranthene	BRL	0.10									
Fluorene	BRL	0.10									
Indeno(1,2,3-cd)pyrene	BRL	0.050									
Naphthalene	BRL	0.50									
Phenanthrene	BRL	0.050									
Pyrene	BRL	0.050									
Surr: 4-Terphenyl-d14	2.265	0	2.000		113	59.9	128				

Sample ID: **LCS-256248** Client ID: Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037286**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	2.000	0.50	2.000		100.0	64.7	120				
Acenaphthylene	2.092	1.0	2.000		105	63.2	120				
Anthracene	2.018	0.050	2.000		101	69.3	125				
Benz(a)anthracene	2.343	0.050	2.000		117	71.1	141				
Benzo(a)pyrene	2.115	0.050	2.000		106	67.2	131				

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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K32

ANALYTICAL QC SUMMARY REPORT

BatchID: 256248

Sample ID: **LCS-256248** Client ID: Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037286**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(b)fluoranthene	2.239	0.10	2.000		112	66.1	134				
Benzo(g,h,i)perylene	1.418	0.10	2.000		70.9	66.1	128				
Benzo(k)fluoranthene	2.122	0.050	2.000		106	67.7	133				
Chrysene	2.383	0.050	2.000		119	71.3	137				
Dibenz(a,h)anthracene	1.498	0.10	2.000		74.9	59.7	125				
Fluoranthene	2.155	0.10	2.000		108	72.3	129				
Fluorene	2.028	0.10	2.000		101	69.2	120				
Indeno(1,2,3-cd)pyrene	1.547	0.050	2.000		77.4	66.4	127				
Naphthalene	1.849	0.50	2.000		92.5	56.8	120				
Phenanthrene	1.880	0.050	2.000		94.0	70.9	120				
Pyrene	2.353	0.050	2.000		118	68.4	138				
Surr: 4-Terphenyl-d14	2.438	0	2.000		122	59.9	128				

Sample ID: **LCSD-256248** Client ID: Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
SampleType: **LCSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037369**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	2.049	0.50	2.000		102	64.7	120	0	0	20	
Acenaphthylene	2.104	1.0	2.000		105	63.2	120	0	0	18.4	
Anthracene	2.027	0.050	2.000		101	69.3	125	0	0	20.5	
Benz(a)anthracene	2.290	0.050	2.000		115	71.1	141	0	0	18	
Benzo(a)pyrene	2.037	0.050	2.000		102	67.2	131	0	0	33.5	
Benzo(b)fluoranthene	2.146	0.10	2.000		107	66.1	134	0	0	18.4	
Benzo(g,h,i)perylene	1.447	0.10	2.000		72.3	66.1	128	0	0	21.8	
Benzo(k)fluoranthene	2.028	0.050	2.000		101	67.7	133	0	0	20	
Chrysene	2.298	0.050	2.000		115	71.3	137	0	0	18.4	
Dibenz(a,h)anthracene	1.478	0.10	2.000		73.9	59.7	125	0	0	20.6	
Fluoranthene	2.155	0.10	2.000		108	72.3	129	0	0	26.9	

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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K32

ANALYTICAL QC SUMMARY REPORT

BatchID: 256248

Sample ID: **LCSD-256248** Client ID: Units: **ug/L** Prep Date: **02/21/2018** Run No: **363658**
SampleType: **LCSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256248** Analysis Date: **02/22/2018** Seq No: **8037369**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Fluorene	2.055	0.10	2.000		103	69.2	120	0	0	20	
Indeno(1,2,3-cd)pyrene	1.592	0.050	2.000		79.6	66.4	127	0	0	20.4	
Naphthalene	1.907	0.50	2.000		95.4	56.8	120	0	0	21	
Phenanthrene	1.892	0.050	2.000		94.6	70.9	120	0	0	20	
Pyrene	2.346	0.050	2.000		117	68.4	138	0	0	19	
Surr: 4-Terphenyl-d14	2.325	0	2.000		116	59.9	128	0	0	0	

Qualifiers:

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

Client: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K32

ANALYTICAL QC SUMMARY REPORT

BatchID: 256350

Sample ID: **MB-256350** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363818**
SampleType: **MBLK** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256350** Analysis Date: **02/23/2018** Seq No: **8041779**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,4-Dimethylphenol	BRL	10									
2-Methylphenol	BRL	10									
3,4-Methylphenol	BRL	10									
Phenol	BRL	10									
Surr: 2,4,6-Tribromophenol	99.05	0	100.0		99.0	51.4	138				
Surr: 2-Fluorobiphenyl	38.78	0	50.00		77.6	44.6	119				
Surr: 2-Fluorophenol	58.62	0	100.0		58.6	27.2	120				
Surr: 4-Terphenyl-d14	54.36	0	50.00		109	47.1	136				
Surr: Nitrobenzene-d5	43.38	0	50.00		86.8	40.7	119				
Surr: Phenol-d5	39.78	0	100.0		39.8	18.1	120				

Sample ID: **LCS-256350** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363818**
SampleType: **LCS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256350** Analysis Date: **02/23/2018** Seq No: **8041780**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	37.20	10	100.0		37.2	26.4	120				
Surr: 2,4,6-Tribromophenol	102.6	0	100.0		103	51.4	138				
Surr: 2-Fluorobiphenyl	43.66	0	50.00		87.3	44.6	119				
Surr: 2-Fluorophenol	56.75	0	100.0		56.8	27.2	120				
Surr: 4-Terphenyl-d14	58.04	0	50.00		116	47.1	136				
Surr: Nitrobenzene-d5	44.87	0	50.00		89.7	40.7	119				
Surr: Phenol-d5	37.43	0	100.0		37.4	18.1	120				

Sample ID: **1802K30-002BMS** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363818**
SampleType: **MS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256350** Analysis Date: **02/24/2018** Seq No: **8041817**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	48.59	10	100.0		48.6	31.5	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K32

ANALYTICAL QC SUMMARY REPORT

BatchID: 256350

Sample ID: **1802K30-002BMS**	Client ID:		Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363818**
SampleType: **MS**	TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**		BatchID: **256350**	Analysis Date: **02/24/2018**	Seq No: **8041817**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 2,4,6-Tribromophenol	96.09	0	100.0		96.1	51.4	138				
Surr: 2-Fluorobiphenyl	41.02	0	50.00		82.0	44.6	119				
Surr: 2-Fluorophenol	63.41	0	100.0		63.4	27.2	120				
Surr: 4-Terphenyl-d14	54.12	0	50.00		108	47.1	136				
Surr: Nitrobenzene-d5	37.97	0	50.00		75.9	40.7	119				
Surr: Phenol-d5	52.75	0	100.0		52.8	18.1	120				

Sample ID: **1802K30-002BMSD**	Client ID:		Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363818**
SampleType: **MSD**	TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**		BatchID: **256350**	Analysis Date: **02/24/2018**	Seq No: **8041818**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	51.59	10	100.0		51.6	31.5	120	48.59	5.99	28.5	
Surr: 2,4,6-Tribromophenol	91.81	0	100.0		91.8	51.4	138	96.09	0	0	
Surr: 2-Fluorobiphenyl	40.08	0	50.00		80.2	44.6	119	41.02	0	0	
Surr: 2-Fluorophenol	65.71	0	100.0		65.7	27.2	120	63.41	0	0	
Surr: 4-Terphenyl-d14	51.75	0	50.00		104	47.1	136	54.12	0	0	
Surr: Nitrobenzene-d5	38.90	0	50.00		77.8	40.7	119	37.97	0	0	
Surr: Phenol-d5	52.94	0	100.0		52.9	18.1	120	52.75	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K32

ANALYTICAL QC SUMMARY REPORT

BatchID: 256355

Sample ID: **MB-256355** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363819**
SampleType: **MBLK** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256355** Analysis Date: **02/26/2018** Seq No: **8042065**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	BRL	0.50									
Acenaphthylene	BRL	1.0									
Anthracene	BRL	0.050									
Benz(a)anthracene	BRL	0.050									
Benzo(a)pyrene	BRL	0.050									
Benzo(b)fluoranthene	BRL	0.10									
Benzo(g,h,i)perylene	BRL	0.10									
Benzo(k)fluoranthene	BRL	0.050									
Chrysene	BRL	0.050									
Dibenz(a,h)anthracene	BRL	0.10									
Fluoranthene	BRL	0.10									
Fluorene	BRL	0.10									
Indeno(1,2,3-cd)pyrene	BRL	0.050									
Naphthalene	BRL	0.50									
Phenanthrene	BRL	0.050									
Pyrene	BRL	0.050									
Surr: 4-Terphenyl-d14	1.800	0	2.000		90.0	59.9	128				

Sample ID: **LCS-256355** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363819**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256355** Analysis Date: **02/26/2018** Seq No: **8042066**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.715	0.50	2.000		85.7	64.7	120				
Acenaphthylene	1.751	1.0	2.000		87.5	63.2	120				
Anthracene	1.785	0.050	2.000		89.2	69.3	125				
Benz(a)anthracene	1.972	0.050	2.000		98.6	71.1	141				
Benzo(a)pyrene	1.993	0.050	2.000		99.7	67.2	131				
Benzo(b)fluoranthene	1.888	0.10	2.000		94.4	66.1	134				

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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K32

ANALYTICAL QC SUMMARY REPORT

BatchID: 256355

Sample ID: **LCS-256355** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363819**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256355** Analysis Date: **02/26/2018** Seq No: **8042066**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(g,h,i)perylene	1.568	0.10	2.000		78.4	66.1	128				
Benzo(k)fluoranthene	1.982	0.050	2.000		99.1	67.7	133				
Chrysene	2.163	0.050	2.000		108	71.3	137				
Dibenz(a,h)anthracene	1.442	0.10	2.000		72.1	59.7	125				
Fluoranthene	1.885	0.10	2.000		94.3	72.3	129				
Fluorene	1.736	0.10	2.000		86.8	69.2	120				
Indeno(1,2,3-cd)pyrene	1.585	0.050	2.000		79.2	66.4	127				
Naphthalene	1.466	0.50	2.000		73.3	56.8	120				
Phenanthrene	1.700	0.050	2.000		85.0	70.9	120				
Pyrene	2.159	0.050	2.000		108	68.4	138				
Surr: 4-Terphenyl-d14	2.000	0	2.000		100.0	59.9	128				

Sample ID: **1802K30-002BMS** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363819**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256355** Analysis Date: **02/26/2018** Seq No: **8044377**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.434	0.50	2.000		71.7	61.4	120				
Acenaphthylene	1.468	1.0	2.000		73.4	63.9	120				
Anthracene	1.460	0.050	2.000		73.0	65.3	120				
Benz(a)anthracene	1.637	0.050	2.000		81.8	76.7	124				
Benzo(a)pyrene	1.647	0.050	2.000		82.3	58.5	120				
Benzo(b)fluoranthene	1.469	0.10	2.000		73.4	52.6	121				
Benzo(g,h,i)perylene	1.297	0.10	2.000		64.9	44.2	120				
Benzo(k)fluoranthene	1.604	0.050	2.000		80.2	59	120				
Chrysene	1.785	0.050	2.000		89.2	65	122				
Dibenz(a,h)anthracene	1.183	0.10	2.000		59.2	38.2	120				
Fluoranthene	1.570	0.10	2.000		78.5	71.7	118				
Fluorene	1.465	0.10	2.000		73.3	65.6	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K32

ANALYTICAL QC SUMMARY REPORT

BatchID: 256355

Sample ID: **1802K30-002BMS** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363819**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256355** Analysis Date: **02/26/2018** Seq No: **8044377**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Indeno(1,2,3-cd)pyrene	1.261	0.050	2.000		63.0	46.6	120				
Naphthalene	1.316	0.50	2.000		65.8	57.3	120				
Phenanthrene	1.387	0.050	2.000		69.3	65.6	120				
Pyrene	1.776	0.050	2.000		88.8	69	121				
Surr: 4-Terphenyl-d14	1.659	0	2.000		83.0	59.9	128				

Sample ID: **1802K30-002BMSD** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363819**
SampleType: **MSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256355** Analysis Date: **02/26/2018** Seq No: **8044378**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.709	0.50	2.000		85.5	61.4	120	1.434	17.5	24.4	
Acenaphthylene	1.734	1.0	2.000		86.7	63.9	120	1.468	16.6	27.9	
Anthracene	1.660	0.050	2.000		83.0	65.3	120	1.460	12.8	26.3	
Benz(a)anthracene	1.885	0.050	2.000		94.3	76.7	124	1.637	14.1	25	
Benzo(a)pyrene	1.889	0.050	2.000		94.5	58.5	120	1.647	13.7	23.5	
Benzo(b)fluoranthene	1.733	0.10	2.000		86.7	52.6	121	1.469	16.5	24	
Benzo(g,h,i)perylene	1.526	0.10	2.000		76.3	44.2	120	1.297	16.2	32.1	
Benzo(k)fluoranthene	1.853	0.050	2.000		92.7	59	120	1.604	14.4	19.6	
Chrysene	2.053	0.050	2.000		103	65	122	1.785	14.0	23	
Dibenz(a,h)anthracene	1.468	0.10	2.000		73.4	38.2	120	1.183	21.5	31.7	
Fluoranthene	1.846	0.10	2.000		92.3	71.7	118	1.570	16.2	23	
Fluorene	1.731	0.10	2.000		86.6	65.6	120	1.465	16.7	25	
Indeno(1,2,3-cd)pyrene	1.517	0.050	2.000		75.8	46.6	120	1.261	18.4	32.4	
Naphthalene	1.573	0.50	2.000		78.6	57.3	120	1.316	17.7	27.2	
Phenanthrene	1.644	0.050	2.000		82.2	65.6	120	1.387	17.0	23.5	
Pyrene	2.085	0.050	2.000		104	69	121	1.776	16.0	23.8	
Surr: 4-Terphenyl-d14	1.873	0	2.000		93.7	59.9	128	1.659	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K32

ANALYTICAL QC SUMMARY REPORT

BatchID: 256423

Sample ID: **MB-256423** Client ID: Units: **mg/L** Prep Date: **02/26/2018** Run No: **364064**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010D** BatchID: **256423** Analysis Date: **02/27/2018** Seq No: **8046178**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	0.0200									
Arsenic	BRL	0.0500									
Barium	BRL	0.0200									
Beryllium	BRL	0.0100									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Copper	BRL	0.0100									
Iron	BRL	0.100									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Zinc	BRL	0.0200									

Sample ID: **LCS-256423** Client ID: Units: **mg/L** Prep Date: **02/26/2018** Run No: **364064**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010D** BatchID: **256423** Analysis Date: **02/27/2018** Seq No: **8046179**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9497	0.0200	1.000		95.0	80	120				
Arsenic	0.9334	0.0500	1.000		93.3	80	120				
Barium	0.9502	0.0200	1.000		95.0	80	120				
Beryllium	0.9026	0.0100	1.000		90.3	80	120				
Cadmium	0.9369	0.0050	1.000		93.7	80	120				
Chromium	0.9127	0.0100	1.000		91.3	80	120				
Copper	0.9025	0.0100	1.000		90.3	80	120				
Iron	8.968	0.100	10.00		89.7	80	120				
Lead	0.9051	0.0100	1.000		90.5	80	120				
Nickel	0.9489	0.0200	1.000		94.9	80	120				
Zinc	0.9454	0.0200	1.000		94.5	80	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K32

ANALYTICAL QC SUMMARY REPORT

BatchID: 256423

Sample ID: **1802K30-002EMS** Client ID:
SampleType: **MS** TestCode: **METALS, TOTAL SW6010D**
Units: **mg/L** Prep Date: **02/26/2018** Run No: **364064**
BatchID: **256423** Analysis Date: **02/27/2018** Seq No: **8046181**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9333	0.0200	1.000		93.3	75	125				
Arsenic	0.9202	0.0500	1.000		92.0	75	125				
Barium	2.265	0.0200	1.000	1.383	88.2	75	125				
Beryllium	0.8801	0.0100	1.000		88.0	75	125				
Cadmium	0.9145	0.0050	1.000		91.4	75	125				
Chromium	0.8908	0.0100	1.000		89.1	75	125				
Copper	0.8816	0.0100	1.000		88.2	75	125				
Iron	15.89	0.100	10.00	7.610	82.8	75	125				
Lead	0.8637	0.0100	1.000		86.4	75	125				
Nickel	0.9026	0.0200	1.000	0.02962	87.3	75	125				
Zinc	0.9085	0.0200	1.000	0.009270	89.9	75	125				

Sample ID: **1802K30-002EMSD** Client ID:
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010D**
Units: **mg/L** Prep Date: **02/26/2018** Run No: **364064**
BatchID: **256423** Analysis Date: **02/27/2018** Seq No: **8046182**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9338	0.0200	1.000		93.4	75	125	0.9333	0.045	20	
Arsenic	0.9252	0.0500	1.000		92.5	75	125	0.9202	0.544	20	
Barium	2.251	0.0200	1.000	1.383	86.7	75	125	2.265	0.644	20	
Beryllium	0.8878	0.0100	1.000		88.8	75	125	0.8801	0.862	20	
Cadmium	0.9244	0.0050	1.000		92.4	75	125	0.9145	1.07	20	
Chromium	0.9010	0.0100	1.000		90.1	75	125	0.8908	1.13	20	
Copper	0.8944	0.0100	1.000		89.4	75	125	0.8816	1.44	20	
Iron	15.88	0.100	10.00	7.610	82.7	75	125	15.89	0.045	20	
Lead	0.8758	0.0100	1.000		87.6	75	125	0.8637	1.38	20	
Nickel	0.9143	0.0200	1.000	0.02962	88.5	75	125	0.9026	1.28	20	
Zinc	0.9228	0.0200	1.000	0.009270	91.4	75	125	0.9085	1.57	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K32

ANALYTICAL QC SUMMARY REPORT

BatchID: 256463

Sample ID: **MB-256463**	Client ID:			Units: **ug/L**	Prep Date: **02/26/2018**	Run No: **363983**
SampleType: **MBLK**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256463**	Analysis Date: **02/26/2018**	Seq No: **8044004**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	BRL	4.0									

Sample ID: **LCS-256463**	Client ID:			Units: **ug/L**	Prep Date: **02/26/2018**	Run No: **363983**
SampleType: **LCS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256463**	Analysis Date: **02/26/2018**	Seq No: **8044005**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	110.6	4.0	200.0		55.3	45.1	115				

Sample ID: **LCSD-256463**	Client ID:			Units: **ug/L**	Prep Date: **02/26/2018**	Run No: **363983**
SampleType: **LCSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256463**	Analysis Date: **02/26/2018**	Seq No: **8044006**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	104.7	4.0	200.0		52.3	45.1	115	110.6	5.47	20	

Sample ID: **1802K30-002DMS**	Client ID:			Units: **ug/L**	Prep Date: **02/26/2018**	Run No: **363983**
SampleType: **MS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256463**	Analysis Date: **02/26/2018**	Seq No: **8044010**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	140.4	4.0	200.0	40.40	50.0	42	115				

Sample ID: **1802K30-002DMSD**	Client ID:			Units: **ug/L**	Prep Date: **02/26/2018**	Run No: **363983**
SampleType: **MSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256463**	Analysis Date: **02/26/2018**	Seq No: **8044011**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	135.5	4.0	200.0	40.40	47.5	42	115	140.4	3.55	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K32

ANALYTICAL QC SUMMARY REPORT

BatchID: 256493

Sample ID: **MB-256493**	Client ID:				Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364027**
SampleType: **MBLK**	TestCode: **Mercury, Total SW7470A**				BatchID: **256493**		Analysis Date: **02/27/2018**		Seq No: **8046156**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020									

Sample ID: **LCS-256493**	Client ID:				Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364027**
SampleType: **LCS**	TestCode: **Mercury, Total SW7470A**				BatchID: **256493**		Analysis Date: **02/27/2018**		Seq No: **8046157**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004011	0.00020	0.0040		100	80	120				

Sample ID: **1802K30-002EMS**	Client ID:				Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364027**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**				BatchID: **256493**		Analysis Date: **02/27/2018**		Seq No: **8046161**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003881	0.00020	0.0040		97.0	70	130				

Sample ID: **1802K30-002EMSD**	Client ID:				Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364027**
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**				BatchID: **256493**		Analysis Date: **02/27/2018**		Seq No: **8046162**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003766	0.00020	0.0040		94.2	70	130	0.003881	3.00	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K32

ANALYTICAL QC SUMMARY REPORT

BatchID: 256510

Sample ID: **MB-256510** Client ID: Units: **ug/L** Prep Date: **02/26/2018** Run No: **363993**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256510** Analysis Date: **02/26/2018** Seq No: **8044538**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	5.0									
Carbon disulfide	BRL	5.0									
Ethylbenzene	BRL	5.0									
Toluene	BRL	5.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	48.70	0	50.00		97.4	68	127				
Surr: Dibromofluoromethane	50.11	0	50.00		100	84.4	122				
Surr: Toluene-d8	50.53	0	50.00		101	80.1	116				

Sample ID: **LCS-256510** Client ID: Units: **ug/L** Prep Date: **02/26/2018** Run No: **363993**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256510** Analysis Date: **02/26/2018** Seq No: **8044537**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	47.79	5.0	50.00		95.6	73.7	126				
Toluene	47.83	5.0	50.00		95.7	76.8	125				
Surr: 4-Bromofluorobenzene	47.58	0	50.00		95.2	68	127				
Surr: Dibromofluoromethane	50.72	0	50.00		101	84.4	122				
Surr: Toluene-d8	50.95	0	50.00		102	80.1	116				

Sample ID: **1802K30-002AMS** Client ID: Units: **ug/L** Prep Date: **02/26/2018** Run No: **363993**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256510** Analysis Date: **02/27/2018** Seq No: **8044574**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	50.89	5.0	50.00		102	66.1	137				
Toluene	51.01	5.0	50.00		102	63.8	141				
Surr: 4-Bromofluorobenzene	48.17	0	50.00		96.3	68	127				
Surr: Dibromofluoromethane	49.35	0	50.00		98.7	84.4	122				
Surr: Toluene-d8	50.62	0	50.00		101	80.1	116				

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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K32

ANALYTICAL QC SUMMARY REPORT

BatchID: 256510

Sample ID: **1802K30-002AMSD** Client ID:
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **ug/L** Prep Date: **02/26/2018** Run No: **363993**
BatchID: **256510** Analysis Date: **02/27/2018** Seq No: **8044575**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	52.22	5.0	50.00		104	66.1	137	50.89	2.58	20	
Toluene	53.74	5.0	50.00		107	63.8	141	51.01	5.21	20	
Surr: 4-Bromofluorobenzene	46.99	0	50.00		94.0	68	127	48.17	0	0	
Surr: Dibromofluoromethane	48.46	0	50.00		96.9	84.4	122	49.35	0	0	
Surr: Toluene-d8	50.90	0	50.00		102	80.1	116	50.62	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K32

ANALYTICAL QC SUMMARY REPORT

BatchID: 256541

Sample ID: **MB-256541**	Client ID:					Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364052**	
SampleType: **MBLK**	TestCode: **Cyanide SW9014**					BatchID: **256541**		Analysis Date: **02/27/2018**		Seq No: **8045709**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	BRL	0.010									

Sample ID: **LCS-256541**	Client ID:					Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364052**	
SampleType: **LCS**	TestCode: **Cyanide SW9014**					BatchID: **256541**		Analysis Date: **02/27/2018**		Seq No: **8045710**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2690	0.010	0.2500		108	85	115				

Sample ID: **1802K33-001FMS**	Client ID:					Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364052**	
SampleType: **MS**	TestCode: **Cyanide SW9014**					BatchID: **256541**		Analysis Date: **02/27/2018**		Seq No: **8045742**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.3220	0.010	0.2500	0.05950	105	70	130				

Sample ID: **1802K33-001FMSD**	Client ID:					Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364052**	
SampleType: **MSD**	TestCode: **Cyanide SW9014**					BatchID: **256541**		Analysis Date: **02/27/2018**		Seq No: **8045743**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.3240	0.010	0.2500	0.05950	106	70	130	0.3220	0.619	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K32

ANALYTICAL QC SUMMARY REPORT

BatchID: 256591

Sample ID: **MB-256591**	Client ID:				Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364097**
SampleType: **MBLK**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **256591**		Analysis Date: **02/27/2018**		Seq No: **8047123**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	2.00									

Sample ID: **LCS-256591**	Client ID:				Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364097**
SampleType: **LCS**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **256591**		Analysis Date: **02/27/2018**		Seq No: **8047124**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	296.0	2.00	296.0		100	70	130				

Sample ID: **1802K33-001HMS**	Client ID:				Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364097**
SampleType: **MS**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **256591**		Analysis Date: **02/27/2018**		Seq No: **8047146**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	15.40	2.00	14.80		104	62.8	125				

Sample ID: **1802K33-001HMSD**	Client ID:				Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364097**
SampleType: **MSD**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **256591**		Analysis Date: **02/27/2018**		Seq No: **8047147**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	15.60	2.00	14.80		105	62.8	125	15.40	1.29	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K32

ANALYTICAL QC SUMMARY REPORT

BatchID: 256717

Sample ID: **MB-256717**	Client ID:				Units: **mg/L**		Prep Date: **03/01/2018**		Run No: **364304**
SampleType: **MBLK**	TestCode: **Mercury, Total SW7470A**				BatchID: **256717**		Analysis Date: **03/02/2018**		Seq No: **8052362**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020									

Sample ID: **LCS-256717**	Client ID:				Units: **mg/L**		Prep Date: **03/01/2018**		Run No: **364304**
SampleType: **LCS**	TestCode: **Mercury, Total SW7470A**				BatchID: **256717**		Analysis Date: **03/02/2018**		Seq No: **8052363**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004283	0.00020	0.0040		107	80	120				

Sample ID: **1802M18-001CMS**	Client ID:				Units: **mg/L**		Prep Date: **03/01/2018**		Run No: **364304**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**				BatchID: **256717**		Analysis Date: **03/02/2018**		Seq No: **8052365**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004621	0.00020	0.0040	0.0002899	108	70	130				

Sample ID: **1802M18-001CMSD**	Client ID:				Units: **mg/L**		Prep Date: **03/01/2018**		Run No: **364304**
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**				BatchID: **256717**		Analysis Date: **03/02/2018**		Seq No: **8052366**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004657	0.00020	0.0040	0.0002899	109	70	130	0.004621	0.790	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K32

ANALYTICAL QC SUMMARY REPORT

BatchID: R363915

Sample ID: **MB-R363915**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **MBLK**	TestCode: **Ferrous Iron**					BatchID: **R363915**		Analysis Date: **02/21/2018**		Seq No: **8042203**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R363915**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **LCS**	TestCode: **Ferrous Iron**					BatchID: **R363915**		Analysis Date: **02/21/2018**		Seq No: **8042204**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5060	0.100	0.5000		101	85	115				

Sample ID: **1802J52-001IMS**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **MS**	TestCode: **Ferrous Iron**					BatchID: **R363915**		Analysis Date: **02/21/2018**		Seq No: **8042224**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5170	0.100	0.5000		103	80	120				

Sample ID: **1802K30-002GMS**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **MS**	TestCode: **Ferrous Iron**					BatchID: **R363915**		Analysis Date: **02/22/2018**		Seq No: **8042229**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	9.820	1.00	5.000	4.480	107	80	120				

Sample ID: **1802J52-001IMSD**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **MSD**	TestCode: **Ferrous Iron**					BatchID: **R363915**		Analysis Date: **02/21/2018**		Seq No: **8042226**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.4970	0.100	0.5000		99.4	80	120	0.5170	3.94	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K32

ANALYTICAL QC SUMMARY REPORT

BatchID: R363915

Sample ID: **1802K30-002GMSD** Client ID:
SampleType: **MSD** TestCode: **Ferrous Iron**
Units: **mg/L** Prep Date: Run No: **363915**
BatchID: **R363915** Analysis Date: **02/22/2018** Seq No: **8042231**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	9.950	1.00	5.000	4.480	109	80	120	9.820	1.32	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K32

ANALYTICAL QC SUMMARY REPORT

BatchID: R363918

Sample ID: **MB-R363918**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363918**	
SampleType: **MBLK**	TestCode: **Ferrous Iron**					BatchID: **R363918**		Analysis Date: **02/22/2018**		Seq No: **8042242**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R363918**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363918**	
SampleType: **LCS**	TestCode: **Ferrous Iron**					BatchID: **R363918**		Analysis Date: **02/22/2018**		Seq No: **8042243**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.4860	0.100	0.5000		97.2	85	115				

Sample ID: **1802K33-001GMS**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363918**	
SampleType: **MS**	TestCode: **Ferrous Iron**					BatchID: **R363918**		Analysis Date: **02/22/2018**		Seq No: **8042260**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	11.62	1.00	5.000	6.400	104	80	120				

Sample ID: **1802K33-001GMSD**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363918**	
SampleType: **MSD**	TestCode: **Ferrous Iron**					BatchID: **R363918**		Analysis Date: **02/22/2018**		Seq No: **8042261**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	11.73	1.00	5.000	6.400	107	80	120	11.62	0.942	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K32

ANALYTICAL QC SUMMARY REPORT

BatchID: R363962

Sample ID: **MB-R363962** Client ID: Units: **mg/L** Prep Date: Run No: **363962**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R363962** Analysis Date: **02/22/2018** Seq No: **8043487**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R363962** Client ID: Units: **mg/L** Prep Date: Run No: **363962**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R363962** Analysis Date: **02/22/2018** Seq No: **8043486**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.868	0.25	5.000		97.4	90	110				
Sulfate	24.53	1.0	25.00		98.1	90	110				

Sample ID: **1802K30-002IMS** Client ID: Units: **mg/L** Prep Date: Run No: **363962**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R363962** Analysis Date: **02/23/2018** Seq No: **8043519**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	48.05	2.5	50.00		96.1	90	110				
Sulfate	229.5	10	250.0	3.740	90.3	90	110				

Sample ID: **1802K33-001IMS** Client ID: Units: **mg/L** Prep Date: Run No: **363962**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R363962** Analysis Date: **02/23/2018** Seq No: **8043513**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	49.21	2.5	50.00	0.5841	97.2	90	110				
Sulfate	454.8	10	250.0	315.9	55.5	90	110				S

Sample ID: **1802K33-001IMSD** Client ID: Units: **mg/L** Prep Date: Run No: **363962**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R363962** Analysis Date: **02/23/2018** Seq No: **8043514**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	49.77	2.5	50.00	0.5841	98.4	90	110	49.21	1.14	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802K32

ANALYTICAL QC SUMMARY REPORT

BatchID: R363962

Sample ID: **1802K33-001IMSD** Client ID:
SampleType: **MSD** TestCode: **ION SCAN SW9056A**
Units: **mg/L** Prep Date: Run No: **363962**
BatchID: **R363962** Analysis Date: **02/23/2018** Seq No: **8043514**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	450.5	10	250.0	315.9	53.8	90	110	454.8	0.947	20	S

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.

March 15, 2018

Adria Reimer
ERM-Southeast

3200 Windy Hill Rd
Atlanta GA 30339

RE: AGLC Macon

Dear Adria Reimer: Order No: 1802K33

Analytical Environmental Services, Inc. received 9 samples on 2/22/2018 9:05:00 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's accreditations are as follows:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.
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.

Sincerely,

Mirzeta Kararic

Mirzeta Kararic

Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
AES Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1802K33
Date: 2/21/18 Page 1 of 1

COMPANY: ERM
ADDRESS: 3200 WINDY HILL RD SE SUITE 1600W ATLANTA, GA
PHONE: (678) 486-2700
EMAIL: adria.reimer@erm.com
SAMPLED BY: ELIZABETH GANT, TAYLOR PAYNE, ANDREAS SHOREDITS, MARKEVIOUS THOMAS
SIGNATURE: [signature]

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

ANALYSIS REQUESTED: SVOC | VOC | dissolved gases | methane | total metals + mercury | total cyanide | sulfide | nitrate/nitrite | ferrous iron

#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX	SVOC (I)	VOC (H+I)	dissolved gases (O)	methane (H+I)	total metals + mercury (N+I)	total cyanide (SH)	sulfide (Zn+SH)	nitrate/nitrite (I)	ferrous iron (I)	REMARKS	Number of Containers
1	MW-108-20180221-01	2/21/18	14:25	X		GW	6	6	6	6	3	3	3	3	3	O = benzalkonium	39
2	MW-109-20180221-01	2/21/18	17:10	X		GW	2	2	2	2	1	1	1	1	1	chloride	13
3	TB-9-20180221-01	NA	—			W		2								SH = sodium	2
4	TB-10-20180221-01	NA	—			W		2								hydroxide	2
5	MW-114D-20180221-01	2/21/18	17:40	X		GW	2	2	2	2	1	1	1	1	1	Zn = zinc acetate	13
6	MW-302D-20180221-01	2/21/18	17:40	X		GW	2	2	2	2	1	1	1	1	1		13
7	TB-11-20180221-01	~~2/21/18~~ NA	—			W		2								Sample # 1 has	2
8	TB-12-20180221-01	~~2/21/18~~ NA	—			W		2								MS/MSD set	2
9	MW-28-20180221-01	2/21/18	16:40			GW	2	2	2	2	1	1	1	1	1	included	13
10	MW-105-20180221-01	2/21/18	15:15			GW	2	2	2	2	1	1	1	1	1		13
11																	
12																	
13																	
14																	

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1. [signature]	2/22/18 0905	1. MONIQUE A. 2/22/18	9:05am
2.		2.	
3.		3.	

PROJECT INFORMATION
PROJECT NAME: AGL MACON
PROJECT #: 0386660
SITE ADDRESS: 137 MULBERRY ST MACON GA
SEND REPORT TO: adria.reimer@erm.com
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers ~~88~~ 104

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

STATE PROGRAM (if any): GA
E-mail? [x] Fax? [ ]
DATA PACKAGE: I ○ II ○ III ○ IV ○

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
(client) FedEx UPS US mail courier Greyhound
other:

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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

Client: ERM-Southeast
Project: AGLC Macon
Lab ID: 1802K33

Case Narrative

Sample Receiving Non-conformance:

Trip blanks 1802K33-007, and -008 were listed on the Chain of Custody but not present. The laboratory proceeded with analysis of the trip blanks received.

Ferrous Iron by SM3500Fe-B:

Method 3500Fe-B as listed in Standard Methods for the Examination of Water and Wastewater 22nd Edition is applicable for analyzing Ferrous Iron in the field. Samples were analyzed in the laboratory which is a deviation from the method.

Metals Analysis by Method 6010D:

Sample 1802K33-005E Nickel result was reported as estimated due to suspected matrix interference with sample QC criteria at 0.02 mg/L. All associated batch QC were within limits.

Analytical Environmental Services, Inc **Date:** 15-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-108-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018 2:25:00 PM
Lab ID:	1802K33-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256557	1	02/27/2018 19:09	NP
Carbon disulfide	BRL	5.0		ug/L	256557	1	02/27/2018 19:09	NP
Ethylbenzene	BRL	5.0		ug/L	256557	1	02/27/2018 19:09	NP
Toluene	BRL	5.0		ug/L	256557	1	02/27/2018 19:09	NP
Xylenes, Total	BRL	5.0		ug/L	256557	1	02/27/2018 19:09	NP
Surr: 4-Bromofluorobenzene	90.8	68-127		%REC	256557	1	02/27/2018 19:09	NP
Surr: Dibromofluoromethane	103	84.4-122		%REC	256557	1	02/27/2018 19:09	NP
Surr: Toluene-d8	102	80.1-116		%REC	256557	1	02/27/2018 19:09	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256591	1	02/27/2018 15:30	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256410	1	02/27/2018 11:39	YH
Acenaphthylene	BRL	1.0		ug/L	256410	1	02/27/2018 11:39	YH
Acenaphthene	1.3	0.50		ug/L	256410	1	02/27/2018 11:39	YH
Fluorene	0.24	0.10		ug/L	256410	1	02/27/2018 11:39	YH
Phenanthrene	BRL	0.050		ug/L	256410	1	02/27/2018 11:39	YH
Anthracene	0.13	0.050		ug/L	256410	1	02/27/2018 11:39	YH
Fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 11:39	YH
Pyrene	0.26	0.050		ug/L	256410	1	02/27/2018 11:39	YH
Benz(a)anthracene	BRL	0.050		ug/L	256410	1	02/27/2018 11:39	YH
Chrysene	BRL	0.050		ug/L	256410	1	02/27/2018 11:39	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 11:39	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256410	1	02/27/2018 11:39	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 11:39	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 11:39	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256410	1	02/27/2018 11:39	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256410	1	02/27/2018 11:39	YH
Surr: 4-Terphenyl-d14	27.4	59.9-128	S	%REC	256410	1	02/27/2018 11:39	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256391	1	02/26/2018 11:13	YH
2-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 11:13	YH
3,4-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 11:13	YH
Phenol	BRL	10		ug/L	256391	1	02/26/2018 11:13	YH
Surr: 2,4,6-Tribromophenol	77.9	51.4-138		%REC	256391	1	02/26/2018 11:13	YH
Surr: 2-Fluorobiphenyl	80.6	44.6-119		%REC	256391	1	02/26/2018 11:13	YH
Surr: 2-Fluorophenol	58.1	27.2-120		%REC	256391	1	02/26/2018 11:13	YH
Surr: 4-Terphenyl-d14	94	47.1-136		%REC	256391	1	02/26/2018 11:13	YH
Surr: Nitrobenzene-d5	80.6	40.7-119		%REC	256391	1	02/26/2018 11:13	YH

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:** 15-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-108-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018 2:25:00 PM
Lab ID:	1802K33-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	54.4	18.1-120		%REC	256391	1	02/26/2018 11:13	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256498	1	02/28/2018 15:25	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363962	1	02/22/2018 14:45	MP
Sulfate	320	10		mg/L	R363962	10	02/22/2018 20:11	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	71	4.0		ug/L	256509	1	02/27/2018 11:15	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	6.40	1.00		mg/L	R363918	10	02/22/2018 09:30	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	0.060	0.010		mg/L	256541	1	02/27/2018 16:00	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256426	1	02/27/2018 20:45	JR
Arsenic	BRL	0.0500		mg/L	256426	1	02/27/2018 20:45	JR
Barium	0.108	0.0200		mg/L	256426	1	02/27/2018 20:45	JR
Beryllium	BRL	0.0100		mg/L	256426	1	02/27/2018 20:45	JR
Cadmium	BRL	0.0050		mg/L	256426	1	02/27/2018 20:45	JR
Chromium	BRL	0.0100		mg/L	256426	1	02/27/2018 20:45	JR
Copper	BRL	0.0100		mg/L	256426	1	02/27/2018 20:45	JR
Iron	13.3	0.100		mg/L	256426	1	02/28/2018 18:21	JR
Lead	BRL	0.0100		mg/L	256426	1	02/27/2018 20:45	JR
Nickel	BRL	0.0200		mg/L	256426	1	02/27/2018 20:45	JR
Zinc	BRL	0.0200		mg/L	256426	1	02/27/2018 20:45	JR

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:** 15-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-109-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018 5:10:00 PM
Lab ID:	1802K33-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256557	1	02/28/2018 03:11	NP
Carbon disulfide	BRL	5.0		ug/L	256557	1	02/28/2018 03:11	NP
Ethylbenzene	BRL	5.0		ug/L	256557	1	02/28/2018 03:11	NP
Toluene	BRL	5.0		ug/L	256557	1	02/28/2018 03:11	NP
Xylenes, Total	BRL	5.0		ug/L	256557	1	02/28/2018 03:11	NP
Surr: 4-Bromofluorobenzene	89.1	68-127		%REC	256557	1	02/28/2018 03:11	NP
Surr: Dibromofluoromethane	107	84.4-122		%REC	256557	1	02/28/2018 03:11	NP
Surr: Toluene-d8	106	80.1-116		%REC	256557	1	02/28/2018 03:11	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256591	1	02/28/2018 11:20	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256355	1	02/26/2018 20:50	YH
Acenaphthylene	BRL	1.0		ug/L	256355	1	02/26/2018 20:50	YH
Acenaphthene	BRL	0.50		ug/L	256355	1	02/26/2018 20:50	YH
Fluorene	BRL	0.10		ug/L	256355	1	02/26/2018 20:50	YH
Phenanthrene	BRL	0.050		ug/L	256355	1	02/26/2018 20:50	YH
Anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 20:50	YH
Fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 20:50	YH
Pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 20:50	YH
Benz(a)anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 20:50	YH
Chrysene	BRL	0.050		ug/L	256355	1	02/26/2018 20:50	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 20:50	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256355	1	02/26/2018 20:50	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 20:50	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 20:50	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256355	1	02/26/2018 20:50	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256355	1	02/26/2018 20:50	YH
Surr: 4-Terphenyl-d14	127	59.9-128		%REC	256355	1	02/26/2018 20:50	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256350	1	02/23/2018 20:59	YH
2-Methylphenol	BRL	10		ug/L	256350	1	02/23/2018 20:59	YH
3,4-Methylphenol	BRL	10		ug/L	256350	1	02/23/2018 20:59	YH
Phenol	BRL	10		ug/L	256350	1	02/23/2018 20:59	YH
Surr: 2,4,6-Tribromophenol	93.1	51.4-138		%REC	256350	1	02/23/2018 20:59	YH
Surr: 2-Fluorobiphenyl	86.1	44.6-119		%REC	256350	1	02/23/2018 20:59	YH
Surr: 2-Fluorophenol	71	27.2-120		%REC	256350	1	02/23/2018 20:59	YH
Surr: 4-Terphenyl-d14	107	47.1-136		%REC	256350	1	02/23/2018 20:59	YH
Surr: Nitrobenzene-d5	83.7	40.7-119		%REC	256350	1	02/23/2018 20:59	YH

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:** 15-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-109-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018 5:10:00 PM
Lab ID:	1802K33-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	56.5	18.1-120		%REC	256350	1	02/23/2018 20:59	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256592	1	03/01/2018 03:11	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363962	1	02/22/2018 17:51	MP
Sulfate	37	1.0		mg/L	R363962	1	02/22/2018 17:51	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	14	4.0		ug/L	256463	1	02/26/2018 14:51	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	0.265	0.100		mg/L	R363915	1	02/22/2018 10:00	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	BRL	0.010		mg/L	256541	1	02/27/2018 16:00	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256426	1	02/27/2018 21:01	JR
Arsenic	BRL	0.0500		mg/L	256426	1	02/27/2018 21:01	JR
Barium	0.0926	0.0200		mg/L	256426	1	02/27/2018 21:01	JR
Beryllium	BRL	0.0100		mg/L	256426	1	02/27/2018 21:01	JR
Cadmium	BRL	0.0050		mg/L	256426	1	02/27/2018 21:01	JR
Chromium	BRL	0.0100		mg/L	256426	1	02/27/2018 21:01	JR
Copper	BRL	0.0100		mg/L	256426	1	02/27/2018 21:01	JR
Iron	0.307	0.100		mg/L	256426	1	02/27/2018 21:01	JR
Lead	BRL	0.0100		mg/L	256426	1	02/27/2018 21:01	JR
Nickel	BRL	0.0200		mg/L	256426	1	02/27/2018 21:01	JR
Zinc	BRL	0.0200		mg/L	256426	1	02/27/2018 21:01	JR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
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- 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:** 15-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-9-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018
Lab ID:	1802K33-003	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256557	1	02/27/2018 23:34	NP
Carbon disulfide	BRL	5.0		ug/L	256557	1	02/27/2018 23:34	NP
Ethylbenzene	BRL	5.0		ug/L	256557	1	02/27/2018 23:34	NP
Toluene	BRL	5.0		ug/L	256557	1	02/27/2018 23:34	NP
Xylenes, Total	BRL	5.0		ug/L	256557	1	02/27/2018 23:34	NP
Surr: 4-Bromofluorobenzene	88.5	68-127		%REC	256557	1	02/27/2018 23:34	NP
Surr: Dibromofluoromethane	107	84.4-122		%REC	256557	1	02/27/2018 23:34	NP
Surr: Toluene-d8	102	80.1-116		%REC	256557	1	02/27/2018 23:34	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:** 15-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-10-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018
Lab ID:	1802K33-004	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256557	1	02/27/2018 23:58	NP
Carbon disulfide	BRL	5.0		ug/L	256557	1	02/27/2018 23:58	NP
Ethylbenzene	BRL	5.0		ug/L	256557	1	02/27/2018 23:58	NP
Toluene	BRL	5.0		ug/L	256557	1	02/27/2018 23:58	NP
Xylenes, Total	BRL	5.0		ug/L	256557	1	02/27/2018 23:58	NP
Surr: 4-Bromofluorobenzene	89.5	68-127		%REC	256557	1	02/27/2018 23:58	NP
Surr: Dibromofluoromethane	105	84.4-122		%REC	256557	1	02/27/2018 23:58	NP
Surr: Toluene-d8	103	80.1-116		%REC	256557	1	02/27/2018 23:58	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:** 15-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-114D-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018 5:40:00 PM
Lab ID:	1802K33-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256557	1	02/28/2018 03:35	NP
Carbon disulfide	BRL	5.0		ug/L	256557	1	02/28/2018 03:35	NP
Ethylbenzene	BRL	5.0		ug/L	256557	1	02/28/2018 03:35	NP
Toluene	BRL	5.0		ug/L	256557	1	02/28/2018 03:35	NP
Xylenes, Total	BRL	5.0		ug/L	256557	1	02/28/2018 03:35	NP
Surr: 4-Bromofluorobenzene	89.2	68-127		%REC	256557	1	02/28/2018 03:35	NP
Surr: Dibromofluoromethane	107	84.4-122		%REC	256557	1	02/28/2018 03:35	NP
Surr: Toluene-d8	103	80.1-116		%REC	256557	1	02/28/2018 03:35	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256591	1	02/28/2018 11:20	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256355	1	02/26/2018 21:17	YH
Acenaphthylene	BRL	1.0		ug/L	256355	1	02/26/2018 21:17	YH
Acenaphthene	BRL	0.50		ug/L	256355	1	02/26/2018 21:17	YH
Fluorene	BRL	0.10		ug/L	256355	1	02/26/2018 21:17	YH
Phenanthrene	BRL	0.050		ug/L	256355	1	02/26/2018 21:17	YH
Anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 21:17	YH
Fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 21:17	YH
Pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 21:17	YH
Benz(a)anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 21:17	YH
Chrysene	BRL	0.050		ug/L	256355	1	02/26/2018 21:17	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 21:17	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256355	1	02/26/2018 21:17	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 21:17	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 21:17	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256355	1	02/26/2018 21:17	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256355	1	02/26/2018 21:17	YH
Surr: 4-Terphenyl-d14	104	59.9-128		%REC	256355	1	02/26/2018 21:17	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256391	1	02/26/2018 14:07	YH
2-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 14:07	YH
3,4-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 14:07	YH
Phenol	BRL	10		ug/L	256391	1	02/26/2018 14:07	YH
Surr: 2,4,6-Tribromophenol	69.2	51.4-138		%REC	256391	1	02/26/2018 14:07	YH
Surr: 2-Fluorobiphenyl	81.4	44.6-119		%REC	256391	1	02/26/2018 14:07	YH
Surr: 2-Fluorophenol	54.2	27.2-120		%REC	256391	1	02/26/2018 14:07	YH
Surr: 4-Terphenyl-d14	88.1	47.1-136		%REC	256391	1	02/26/2018 14:07	YH
Surr: Nitrobenzene-d5	76.2	40.7-119		%REC	256391	1	02/26/2018 14:07	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
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- > 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:** 15-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-114D-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018 5:40:00 PM
Lab ID:	1802K33-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	48.2	18.1-120		%REC	256391	1	02/26/2018 14:07	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256592	1	03/01/2018 03:23	AS
ION SCAN SW9056A								
Nitrate	0.51	0.25		mg/L	R363962	1	02/22/2018 19:26	MP
Sulfate	17	1.0		mg/L	R363962	1	02/22/2018 19:26	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	66	4.0		ug/L	256463	1	02/26/2018 14:56	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363918	1	02/22/2018 09:30	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	256541	1	02/27/2018 16:00	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256426	1	02/27/2018 21:04	JR
Arsenic	BRL	0.0500		mg/L	256426	1	02/27/2018 21:04	JR
Barium	0.905	0.0200		mg/L	256426	1	02/27/2018 21:04	JR
Beryllium	BRL	0.0100		mg/L	256426	1	02/27/2018 21:04	JR
Cadmium	BRL	0.0050		mg/L	256426	1	02/27/2018 21:04	JR
Chromium	BRL	0.0100		mg/L	256426	1	02/27/2018 21:04	JR
Copper	BRL	0.0100		mg/L	256426	1	02/27/2018 21:04	JR
Iron	0.125	0.100		mg/L	256426	1	02/27/2018 21:04	JR
Lead	BRL	0.0100		mg/L	256426	1	02/27/2018 21:04	JR
Nickel	0.0201	0.0200	NARR	mg/L	256426	1	02/28/2018 15:06	JR
Zinc	BRL	0.0200		mg/L	256426	1	02/27/2018 21:04	JR

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:** 15-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-302D-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018 5:40:00 PM
Lab ID:	1802K33-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256557	1	02/28/2018 03:59	NP
Carbon disulfide	BRL	5.0		ug/L	256557	1	02/28/2018 03:59	NP
Ethylbenzene	BRL	5.0		ug/L	256557	1	02/28/2018 03:59	NP
Toluene	BRL	5.0		ug/L	256557	1	02/28/2018 03:59	NP
Xylenes, Total	BRL	5.0		ug/L	256557	1	02/28/2018 03:59	NP
Surr: 4-Bromofluorobenzene	88.7	68-127		%REC	256557	1	02/28/2018 03:59	NP
Surr: Dibromofluoromethane	108	84.4-122		%REC	256557	1	02/28/2018 03:59	NP
Surr: Toluene-d8	104	80.1-116		%REC	256557	1	02/28/2018 03:59	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256591	1	02/28/2018 11:20	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	16	5.0		ug/L	256355	10	02/28/2018 13:52	YH
Acenaphthylene	7.7	1.0		ug/L	256355	1	02/26/2018 21:44	YH
Acenaphthene	4.8	0.50		ug/L	256355	1	02/26/2018 21:44	YH
Fluorene	7.7	0.10		ug/L	256355	1	02/26/2018 21:44	YH
Phenanthrene	9.8	0.50		ug/L	256355	10	02/28/2018 13:52	YH
Anthracene	2.3	0.050		ug/L	256355	1	02/26/2018 21:44	YH
Fluoranthene	1.7	0.10		ug/L	256355	1	02/26/2018 21:44	YH
Pyrene	2.1	0.050		ug/L	256355	1	02/26/2018 21:44	YH
Benz(a)anthracene	0.074	0.050		ug/L	256355	1	02/26/2018 21:44	YH
Chrysene	0.065	0.050		ug/L	256355	1	02/26/2018 21:44	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 21:44	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256355	1	02/26/2018 21:44	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 21:44	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 21:44	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256355	1	02/26/2018 21:44	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256355	1	02/26/2018 21:44	YH
Surr: 4-Terphenyl-d14	98	59.9-128		%REC	256355	1	02/26/2018 21:44	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256391	1	02/26/2018 14:37	YH
2-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 14:37	YH
3,4-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 14:37	YH
Phenol	BRL	10		ug/L	256391	1	02/26/2018 14:37	YH
Surr: 2,4,6-Tribromophenol	70.7	51.4-138		%REC	256391	1	02/26/2018 14:37	YH
Surr: 2-Fluorobiphenyl	81.3	44.6-119		%REC	256391	1	02/26/2018 14:37	YH
Surr: 2-Fluorophenol	51.4	27.2-120		%REC	256391	1	02/26/2018 14:37	YH
Surr: 4-Terphenyl-d14	82	47.1-136		%REC	256391	1	02/26/2018 14:37	YH
Surr: Nitrobenzene-d5	81.6	40.7-119		%REC	256391	1	02/26/2018 14:37	YH

Qualifiers:

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- BRL Below reporting limit
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- > 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:** 15-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-302D-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018 5:40:00 PM
Lab ID:	1802K33-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	41.4	18.1-120		%REC	256391	1	02/26/2018 14:37	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256592	1	03/01/2018 03:30	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363962	1	02/22/2018 14:16	MP
Sulfate	660	10		mg/L	R363962	10	02/22/2018 19:56	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	39	4.0		ug/L	256463	1	02/26/2018 15:05	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	7.02	2.50		mg/L	R363915	25	02/22/2018 10:00	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	0.389	0.010		mg/L	256541	1	02/27/2018 16:00	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256426	1	02/27/2018 21:08	JR
Arsenic	BRL	0.0500		mg/L	256426	1	02/27/2018 21:08	JR
Barium	0.0496	0.0200		mg/L	256426	1	02/27/2018 21:08	JR
Beryllium	BRL	0.0100		mg/L	256426	1	02/27/2018 21:08	JR
Cadmium	BRL	0.0050		mg/L	256426	1	02/27/2018 21:08	JR
Chromium	BRL	0.0100		mg/L	256426	1	02/27/2018 21:08	JR
Copper	BRL	0.0100		mg/L	256426	1	02/27/2018 21:08	JR
Iron	7.03	0.100		mg/L	256426	1	03/14/2018 15:47	JR
Lead	BRL	0.0100		mg/L	256426	1	02/27/2018 21:08	JR
Nickel	0.0450	0.0200		mg/L	256426	1	02/27/2018 21:08	JR
Zinc	BRL	0.0200		mg/L	256426	1	02/27/2018 21:08	JR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
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- 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:** 15-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-28-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018 4:40:00 PM
Lab ID:	1802K33-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256557	1	02/28/2018 04:23	NP
Carbon disulfide	BRL	5.0		ug/L	256557	1	02/28/2018 04:23	NP
Ethylbenzene	BRL	5.0		ug/L	256557	1	02/28/2018 04:23	NP
Toluene	BRL	5.0		ug/L	256557	1	02/28/2018 04:23	NP
Xylenes, Total	BRL	5.0		ug/L	256557	1	02/28/2018 04:23	NP
Surr: 4-Bromofluorobenzene	87.8	68-127		%REC	256557	1	02/28/2018 04:23	NP
Surr: Dibromofluoromethane	105	84.4-122		%REC	256557	1	02/28/2018 04:23	NP
Surr: Toluene-d8	106	80.1-116		%REC	256557	1	02/28/2018 04:23	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256591	1	02/28/2018 11:20	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256355	1	02/26/2018 16:15	YH
Acenaphthylene	BRL	1.0		ug/L	256355	1	02/26/2018 16:15	YH
Acenaphthene	BRL	0.50		ug/L	256355	1	02/26/2018 16:15	YH
Fluorene	BRL	0.10		ug/L	256355	1	02/26/2018 16:15	YH
Phenanthrene	BRL	0.050		ug/L	256355	1	02/26/2018 16:15	YH
Anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 16:15	YH
Fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 16:15	YH
Pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 16:15	YH
Benz(a)anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 16:15	YH
Chrysene	BRL	0.050		ug/L	256355	1	02/26/2018 16:15	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 16:15	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256355	1	02/26/2018 16:15	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 16:15	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 16:15	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256355	1	02/26/2018 16:15	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256355	1	02/26/2018 16:15	YH
Surr: 4-Terphenyl-d14	100	59.9-128		%REC	256355	1	02/26/2018 16:15	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256391	1	02/26/2018 15:07	YH
2-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 15:07	YH
3,4-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 15:07	YH
Phenol	BRL	10		ug/L	256391	1	02/26/2018 15:07	YH
Surr: 2,4,6-Tribromophenol	69.5	51.4-138		%REC	256391	1	02/26/2018 15:07	YH
Surr: 2-Fluorobiphenyl	80.9	44.6-119		%REC	256391	1	02/26/2018 15:07	YH
Surr: 2-Fluorophenol	60.4	27.2-120		%REC	256391	1	02/26/2018 15:07	YH
Surr: 4-Terphenyl-d14	92.3	47.1-136		%REC	256391	1	02/26/2018 15:07	YH
Surr: Nitrobenzene-d5	80	40.7-119		%REC	256391	1	02/26/2018 15:07	YH

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- 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:** 15-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-28-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018 4:40:00 PM
Lab ID:	1802K33-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	54	18.1-120		%REC	256391	1	02/26/2018 15:07	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256592	1	03/01/2018 03:34	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363962	1	02/22/2018 18:06	MP
Sulfate	45	1.0		mg/L	R363962	1	02/22/2018 18:06	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	BRL	4.0		ug/L	256463	1	02/26/2018 15:00	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363915	1	02/22/2018 10:00	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	BRL	0.010		mg/L	256541	1	02/27/2018 16:00	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256426	1	02/28/2018 15:09	JR
Arsenic	BRL	0.0500		mg/L	256426	1	02/28/2018 15:09	JR
Barium	0.108	0.0200		mg/L	256426	1	02/28/2018 15:09	JR
Beryllium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:09	JR
Cadmium	0.0174	0.0050		mg/L	256426	1	02/28/2018 15:09	JR
Chromium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:09	JR
Copper	BRL	0.0100		mg/L	256426	1	02/28/2018 15:09	JR
Iron	0.744	0.100		mg/L	256426	1	02/28/2018 15:09	JR
Lead	BRL	0.0100		mg/L	256426	1	02/28/2018 15:09	JR
Nickel	BRL	0.0200		mg/L	256426	1	02/28/2018 15:09	JR
Zinc	BRL	0.0200		mg/L	256426	1	02/28/2018 15:09	JR

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- 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:** 15-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-105-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018 3:15:00 PM
Lab ID:	1802K33-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256557	1	02/28/2018 04:47	NP
Carbon disulfide	BRL	5.0		ug/L	256557	1	02/28/2018 04:47	NP
Ethylbenzene	BRL	5.0		ug/L	256557	1	02/28/2018 04:47	NP
Toluene	BRL	5.0		ug/L	256557	1	02/28/2018 04:47	NP
Xylenes, Total	BRL	5.0		ug/L	256557	1	02/28/2018 04:47	NP
Surr: 4-Bromofluorobenzene	86.6	68-127		%REC	256557	1	02/28/2018 04:47	NP
Surr: Dibromofluoromethane	106	84.4-122		%REC	256557	1	02/28/2018 04:47	NP
Surr: Toluene-d8	104	80.1-116		%REC	256557	1	02/28/2018 04:47	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256591	1	02/28/2018 11:20	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256355	1	02/26/2018 16:42	YH
Acenaphthylene	BRL	1.0		ug/L	256355	1	02/26/2018 16:42	YH
Acenaphthene	BRL	0.50		ug/L	256355	1	02/26/2018 16:42	YH
Fluorene	BRL	0.10		ug/L	256355	1	02/26/2018 16:42	YH
Phenanthrene	BRL	0.050		ug/L	256355	1	02/26/2018 16:42	YH
Anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 16:42	YH
Fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 16:42	YH
Pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 16:42	YH
Benz(a)anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 16:42	YH
Chrysene	BRL	0.050		ug/L	256355	1	02/26/2018 16:42	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 16:42	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256355	1	02/26/2018 16:42	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 16:42	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 16:42	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256355	1	02/26/2018 16:42	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256355	1	02/26/2018 16:42	YH
Surr: 4-Terphenyl-d14	94.9	59.9-128		%REC	256355	1	02/26/2018 16:42	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256391	1	02/26/2018 15:37	YH
2-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 15:37	YH
3,4-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 15:37	YH
Phenol	BRL	10		ug/L	256391	1	02/26/2018 15:37	YH
Surr: 2,4,6-Tribromophenol	66.5	51.4-138		%REC	256391	1	02/26/2018 15:37	YH
Surr: 2-Fluorobiphenyl	84.5	44.6-119		%REC	256391	1	02/26/2018 15:37	YH
Surr: 2-Fluorophenol	53.7	27.2-120		%REC	256391	1	02/26/2018 15:37	YH
Surr: 4-Terphenyl-d14	92.3	47.1-136		%REC	256391	1	02/26/2018 15:37	YH
Surr: Nitrobenzene-d5	84.1	40.7-119		%REC	256391	1	02/26/2018 15:37	YH

Qualifiers:

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- 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:** 15-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-105-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018 3:15:00 PM
Lab ID:	1802K33-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	45.3	18.1-120		%REC	256391	1	02/26/2018 15:37	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256592	1	03/01/2018 03:38	AS
ION SCAN SW9056A								
Nitrate	2.4	0.25		mg/L	R363962	1	02/22/2018 19:11	MP
Sulfate	120	10		mg/L	R363962	10	02/26/2018 12:46	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	BRL	4.0		ug/L	256463	1	02/26/2018 15:10	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363915	1	02/22/2018 10:00	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	BRL	0.010		mg/L	256541	1	02/27/2018 16:00	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256426	1	02/28/2018 15:12	JR
Arsenic	BRL	0.0500		mg/L	256426	1	02/28/2018 15:12	JR
Barium	0.0389	0.0200		mg/L	256426	1	02/28/2018 15:12	JR
Beryllium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:12	JR
Cadmium	BRL	0.0050		mg/L	256426	1	02/28/2018 15:12	JR
Chromium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:12	JR
Copper	BRL	0.0100		mg/L	256426	1	02/28/2018 15:12	JR
Iron	BRL	0.100		mg/L	256426	1	02/28/2018 15:12	JR
Lead	BRL	0.0100		mg/L	256426	1	02/28/2018 15:12	JR
Nickel	BRL	0.0200		mg/L	256426	1	02/28/2018 15:12	JR
Zinc	BRL	0.0200		mg/L	256426	1	02/28/2018 15:12	JR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
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- > 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:** 15-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TRIP BLANK
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018
Lab ID:	1802K33-011	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256557	1	02/28/2018 00:22	NP
Carbon disulfide	BRL	5.0		ug/L	256557	1	02/28/2018 00:22	NP
Ethylbenzene	BRL	5.0		ug/L	256557	1	02/28/2018 00:22	NP
Toluene	BRL	5.0		ug/L	256557	1	02/28/2018 00:22	NP
Xylenes, Total	BRL	5.0		ug/L	256557	1	02/28/2018 00:22	NP
Surr: 4-Bromofluorobenzene	89.9	68-127		%REC	256557	1	02/28/2018 00:22	NP
Surr: Dibromofluoromethane	107	84.4-122		%REC	256557	1	02/28/2018 00:22	NP
Surr: Toluene-d8	104	80.1-116		%REC	256557	1	02/28/2018 00:22	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

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

March 8, 2018

Mirzeta Kararic
Analytical Environmental Services, Inc.
3785 Presidential Parkway
Suite 111
Atlanta, GA 30340

RE: **1802K33**

Pace Workorder: 25814

Dear Mirzeta Kararic:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, February 28, 2018. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Ruth Welsh 03/08/2018
Ruth.Welsh@pacelabs.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email PAESfeedback@pacelabs.com.

Total Number of Pages 18

CERTIFICATE OF ANALYSIS

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water
Accreditor:	West Virginia Department of Environmental Protection, Division of Water and Waste Management
Accreditation ID:	395
Scope:	Non-Potable Water
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	State of Virginia
Accreditation ID:	460201
Scope:	Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

SAMPLE SUMMARY

Workorder: 25814 1802K33

Lab ID	Sample ID	Matrix	Date Collected	Date Received
258140001	MW-108-20180221-01	Water	2/21/2018 14:25	2/28/2018 11:45
258140002	MW-108-20180221-01 MS	Water	2/21/2018 14:25	2/28/2018 11:45
258140003	MW-108-20180221-01 MSD	Water	2/21/2018 14:25	2/28/2018 11:45
258140004	MW-109-20180221-01	Water	2/21/2018 17:10	2/28/2018 11:45
258140005	MW-114D-20180221-01	Water	2/21/2018 17:40	2/28/2018 11:45
258140006	MW-302D-20180221-01	Water	2/21/2018 17:40	2/28/2018 11:45
258140007	MW-28-20180221-01	Water	2/21/2018 16:40	2/28/2018 11:45
258140008	MW-105-20180221-01	Water	2/21/2018 15:15	2/28/2018 11:45

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ANALYTICAL RESULTS

Workorder: 25814 1802K33

Lab ID: **258140001** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **MW-108-20180221-01** Date Collected: 2/21/2018 14:25

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**57**	mg/l	5.0	0.32	1	3/3/2018 11:00	TD	n,M5
Oxygen	**2.3**	mg/l	0.50	0.12	1	3/3/2018 11:00	TD	n
Nitrogen	**18**	mg/l	2.0	0.34	1	3/3/2018 11:00	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/3/2018 11:00	TD	n

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ANALYTICAL RESULTS

Workorder: 25814 1802K33

Lab ID: **258140002** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **MW-108-20180221-01 MS** Date Collected: 2/21/2018 14:25

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**200**	mg/l	5.0	0.32	1	3/3/2018 12:18	TD	n,M5
Oxygen	**12**	mg/l	0.50	0.12	1	3/3/2018 12:18	TD	n
Nitrogen	**140**	mg/l	2.0	0.34	1	3/3/2018 12:18	TD	n
Carbon Monoxide	**2.1**	mg/l	1.0	0.087	1	3/3/2018 12:18	TD	n

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ANALYTICAL RESULTS

Workorder: 25814 1802K33

Lab ID: **258140003** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **MW-108-20180221-01 MSD** Date Collected: 2/21/2018 14:25

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**210**	mg/l	5.0	0.32	1	3/3/2018 12:34	TD	n,M5
Oxygen	**14**	mg/l	0.50	0.12	1	3/3/2018 12:34	TD	n
Nitrogen	**130**	mg/l	2.0	0.34	1	3/3/2018 12:34	TD	n
Carbon Monoxide	**2.0**	mg/l	1.0	0.087	1	3/3/2018 12:34	TD	n

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ANALYTICAL RESULTS

Workorder: 25814 1802K33

Lab ID: **258140004** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **MW-109-20180221-01** Date Collected: 2/21/2018 17:10

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**140**	mg/l	5.0	0.32	1	3/3/2018 11:13	TD	n,M5
Oxygen	**3.2**	mg/l	0.50	0.12	1	3/3/2018 11:13	TD	n
Nitrogen	**17**	mg/l	2.0	0.34	1	3/3/2018 11:13	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/3/2018 11:13	TD	n

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ANALYTICAL RESULTS

Workorder: 25814 1802K33

Lab ID: **258140005** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **MW-114D-20180221-01** Date Collected: 2/21/2018 17:40

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**7.6**	mg/l	5.0	0.32	1	3/3/2018 11:26	TD	n,M5
Oxygen	**6.1**	mg/l	0.50	0.12	1	3/3/2018 11:26	TD	n
Nitrogen	**18**	mg/l	2.0	0.34	1	3/3/2018 11:26	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/3/2018 11:26	TD	n

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ANALYTICAL RESULTS

Workorder: 25814 1802K33

Lab ID: **258140006** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **MW-302D-20180221-01** Date Collected: 2/21/2018 17:40

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**180**	mg/l	5.0	0.32	1	3/3/2018 11:38	TD	n,M5
Oxygen	**2.9**	mg/l	0.50	0.12	1	3/3/2018 11:38	TD	n
Nitrogen	**17**	mg/l	2.0	0.34	1	3/3/2018 11:38	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/3/2018 11:38	TD	n

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ANALYTICAL RESULTS

Workorder: 25814 1802K33

Lab ID: **258140007** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **MW-28-20180221-01** Date Collected: 2/21/2018 16:40

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**60**	mg/l	5.0	0.32	1	3/3/2018 11:51	TD	n,M5
Oxygen	**6.4**	mg/l	0.50	0.12	1	3/3/2018 11:51	TD	n
Nitrogen	**20**	mg/l	2.0	0.34	1	3/3/2018 11:51	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/3/2018 11:51	TD	n

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ANALYTICAL RESULTS

Workorder: 25814 1802K33

Lab ID: **258140008** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **MW-105-20180221-01** Date Collected: 2/21/2018 15:15

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**75**	mg/l	5.0	0.32	1	3/3/2018 12:04	TD	n,M5
Oxygen	**5.7**	mg/l	0.50	0.12	1	3/3/2018 12:04	TD	n
Nitrogen	**14**	mg/l	2.0	0.34	1	3/3/2018 12:04	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/3/2018 12:04	TD	n

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 25814 1802K33

DEFINITIONS/QUALIFIERS

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.
M5	The matrix spike duplicate sample recovery was outside laboratory control limits.

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QUALITY CONTROL DATA

Workorder: 25814 1802K33

QC Batch: DISG/6693 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 258140001, 258140002, 258140003, 258140004, 258140005, 258140006, 258140007, 258140008

METHOD BLANK: 54010

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Carbon Dioxide	mg/l	<5.0	5.0	n,M5
Oxygen	mg/l	<0.50	0.50	n
Nitrogen	mg/l	<2.0	2.0	n
Carbon Monoxide	mg/l	<1.0	1.0	n

LABORATORY CONTROL SAMPLE & LCSD: 54012 54014

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Carbon Dioxide	mg/l	120	140	140	118	116	80-120	1.6	20	M5,n
Oxygen	mg/l	11	10	10	92	93	80-120	0.71	20	n
Nitrogen	mg/l	140	120	120	90	90	80-120	0.17	20	n
Carbon Monoxide	mg/l	2	2.1	2.1	105	107	80-120	1.1	20	n

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54015 54016 Original: 258140001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK											
Carbon Dioxide	mg/l	57	120	200	210	125	133	70-130	4.4	20	n,M5
Oxygen	mg/l	2.3	11	12	14	82	102	70-130	18	20	n
Nitrogen	mg/l	18	140	140	130	87	84	70-130	3.3	20	n
Carbon Monoxide	mg/l	0	2	2.1	2.0	104	102	70-130	2.2	20	n

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54017 54018 Original: 258160002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK											
Carbon Dioxide	mg/l	41	120	170	190	112	126	70-130	9	20	n,M5
Oxygen	mg/l	2.4	11	12	12	82	83	70-130	1.3	20	n
Nitrogen	mg/l	18	140	140	140	86	85	70-130	1	20	n

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QUALITY CONTROL DATA

Workorder: 25814 1802K33

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54017 54018 Original: 258160002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Carbon Monoxide	mg/l	0	2	2.1	2.1	103	105	70-130	1.3	20	n

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 25814 1802K33

QUALITY CONTROL PARAMETER QUALIFIERS

M5	The matrix spike duplicate sample recovery was outside laboratory control limits.
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 25814 1802K33

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
258140001	MW-108-20180221-01			AM20GAX	DISG/6693
258140002	MW-108-20180221-01 MS			AM20GAX	DISG/6693
258140003	MW-108-20180221-01 MSD			AM20GAX	DISG/6693
258140004	MW-109-20180221-01			AM20GAX	DISG/6693
258140005	MW-114D-20180221-01			AM20GAX	DISG/6693
258140006	MW-302D-20180221-01			AM20GAX	DISG/6693
258140007	MW-28-20180221-01			AM20GAX	DISG/6693
258140008	MW-105-20180221-01			AM20GAX	DISG/6693

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: ______

Date: ______ Page ____ of ____

COMPANY: ✓
ADDRESS: ✓
PHONE:
EMAIL:
SAMPLED BY:
SIGNATURE:

Analysis requested: O_2, N_2, CO_2, CO_2

#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)	O_2, N_2, CO_2, CO_2	REMARKS	Number of Containers
1	MW-108-20180221-01	2/21/18	14:25	X		GW	X	Run MS/MSD	
2	MW-109-20180221-01	2/21/18	17:10	X		GW	X		
3	MW-114D-20180221-01	2/21/18	17:40	X		GW	X		
4	MW-302D-20180221-01	2/21/18	17:40	X		GW	X		
5	MW-28-20180221-01	2/21/18	16:40	X		GW	X		
6	MW-105-20180221-01	2/21/18	15:15	X		GW	X		
7									
8									
9									
10									
11									
12									
13									
14									

PRESERVATION (see codes)

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Andrea Stephens	2/27/18 5:00	1. [signature] PACE	2.28.18 11:45
2.		2.	
3.		3.	

PROJECT INFORMATION
PROJECT NAME: 1802K33
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: MKARARIC@AESATLANTA.COM
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #: ______ PO#: ______

RECEIPT
Total # of Containers

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

STATE PROGRAM (if any): ______
E-mail? ☐ Fax? ☐
DATA PACKAGE: I ○ II ○ III ○ IV ○

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client FedEx UPS US mail courier Greyhound
other: ______

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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

Cooler Receipt Form

Client Name: AES Project: 1802K33 Lab Work Order: 25867

14 3.1.18

A. Shipping/Container Information (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other:_____ Air bill Present: (Yes) No

Tracking Number: 7249 3168 6734

Custody Seal on Cooler/Box Present: Yes (No) Seals Intact: Yes No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam Other:_____

Type of Ice: (Wet) Blue None Ice Intact: (Yes) Melted

Cooler Temperature: 1°C Radiation Screened: Yes (No) Chain of Custody Present: (Yes) No

Comments:_____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC			✓	
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected	✓			
Sufficient volume provided	✓			
PAES containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	
Headspace present?	✓			

Comments:_____

Cooler contents examined/received by: _____ Date: 2.28.18

Project Manager Review: _____ Date: 2/28/18

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **ERM-Southeast** AES Work Order Number: **1802H80**

2. Carrier: FedEx ■ UPS ☐ USPS ☐ Client ☐ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	○	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	○	○		
5.	Custody seals intact on shipping container?	○	○	○		
6.	Temperature blanks present?	○	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	○	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	○	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	○	○	○		
10.	Sampler name and/or signature on COC?	○	○	○		
11.	Were all samples received within holding time?	○	○	○		
12.	TAT marked on the COC?	○	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 2.3 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). TD 2/20/18

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	○	○	○		
17.	Custody seals present on sample containers?	○	○	○		
18.	Custody seals intact on sample containers?	○	○	○		
19.	Do sample container labels match the COC?	○	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	○	○	○		
21.	Were all of the samples listed on the COC received?	○	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	○	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	○	○	○		
24.	Were samples received in appropriate containers?	○	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	○	○	○		
26.	Were trip blanks submitted?	○	○	○	listed on COC ■ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). MDP 2/20/18

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	○	○	○		
29.	Containers meet preservation guidelines?	○	○	○		
30.	Was pH adjusted at Sample Receipt?	○	○	○		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). MDP 2/20/18

Checklist 6.9.17 Rev 2

Locked

Analytical Environmental Services, Inc

Date: 15-Mar-18

Client: ERM-Southeast
Project Name: AGLC Macon
Lab Order: 1802K33

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802K33-001A	MW-108-20180221-01	2/21/2018 2:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:33:00PM	02/27/2018
1802K33-001B	MW-108-20180221-01	2/21/2018 2:25:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00AM	02/27/2018
1802K33-001B	MW-108-20180221-01	2/21/2018 2:25:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/24/2018 6:00:00PM	02/26/2018
1802K33-001D	MW-108-20180221-01	2/21/2018 2:25:00PM	Groundwater	GC Analysis of Gaseous Samples		2/27/2018 10:17:27AM	02/27/2018
1802K33-001E	MW-108-20180221-01	2/21/2018 2:25:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00AM	02/27/2018
1802K33-001E	MW-108-20180221-01	2/21/2018 2:25:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00AM	02/28/2018
1802K33-001E	MW-108-20180221-01	2/21/2018 2:25:00PM	Groundwater	TOTAL MERCURY		2/28/2018 12:19:00PM	02/28/2018
1802K33-001F	MW-108-20180221-01	2/21/2018 2:25:00PM	Groundwater	Cyanide		2/27/2018 2:30:00PM	02/27/2018
1802K33-001G	MW-108-20180221-01	2/21/2018 2:25:00PM	Groundwater	Ferrous Iron			02/22/2018
1802K33-001H	MW-108-20180221-01	2/21/2018 2:25:00PM	Groundwater	Sulfide by SW9030/9034		2/27/2018 1:05:00PM	02/27/2018
1802K33-001I	MW-108-20180221-01	2/21/2018 2:25:00PM	Groundwater	ION SCAN			02/22/2018
1802K33-002A	MW-109-20180221-01	2/21/2018 5:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:33:00PM	02/28/2018
1802K33-002B	MW-109-20180221-01	2/21/2018 5:10:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/23/2018 11:00:00AM	02/26/2018
1802K33-002B	MW-109-20180221-01	2/21/2018 5:10:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/23/2018 9:00:00AM	02/23/2018
1802K33-002D	MW-109-20180221-01	2/21/2018 5:10:00PM	Groundwater	GC Analysis of Gaseous Samples		2/26/2018 12:39:32PM	02/26/2018
1802K33-002E	MW-109-20180221-01	2/21/2018 5:10:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00AM	02/27/2018
1802K33-002E	MW-109-20180221-01	2/21/2018 5:10:00PM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00PM	03/01/2018
1802K33-002F	MW-109-20180221-01	2/21/2018 5:10:00PM	Groundwater	Cyanide		2/27/2018 2:30:00PM	02/27/2018
1802K33-002G	MW-109-20180221-01	2/21/2018 5:10:00PM	Groundwater	Ferrous Iron			02/22/2018
1802K33-002H	MW-109-20180221-01	2/21/2018 5:10:00PM	Groundwater	Sulfide by SW9030/9034		2/28/2018 9:00:00AM	02/28/2018
1802K33-002I	MW-109-20180221-01	2/21/2018 5:10:00PM	Groundwater	ION SCAN			02/22/2018
1802K33-003A	TB-9-20180221-01	2/21/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		2/27/2018 5:33:00PM	02/27/2018
1802K33-004A	TB-10-20180221-01	2/21/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		2/27/2018 5:33:00PM	02/27/2018
1802K33-005A	MW-114D-20180221-01	2/21/2018 5:40:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:33:00PM	02/28/2018
1802K33-005B	MW-114D-20180221-01	2/21/2018 5:40:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/23/2018 11:00:00AM	02/26/2018
1802K33-005B	MW-114D-20180221-01	2/21/2018 5:40:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/24/2018 6:00:00PM	02/26/2018
1802K33-005D	MW-114D-20180221-01	2/21/2018 5:40:00PM	Groundwater	GC Analysis of Gaseous Samples		2/26/2018 12:39:32PM	02/26/2018
1802K33-005E	MW-114D-20180221-01	2/21/2018 5:40:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00AM	02/27/2018
1802K33-005E	MW-114D-20180221-01	2/21/2018 5:40:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00AM	02/28/2018

Analytical Environmental Services, Inc

Date: 15-Mar-18

Client: ERM-Southeast
Project Name: AGLC Macon
Lab Order: 1802K33

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802K33-005E	MW-114D-20180221-01	2/21/2018 5:40:00PM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00PM	03/01/2018
1802K33-005F	MW-114D-20180221-01	2/21/2018 5:40:00PM	Groundwater	Cyanide		2/27/2018 2:30:00PM	02/27/2018
1802K33-005G	MW-114D-20180221-01	2/21/2018 5:40:00PM	Groundwater	Ferrous Iron			02/22/2018
1802K33-005H	MW-114D-20180221-01	2/21/2018 5:40:00PM	Groundwater	Sulfide by SW9030/9034		2/28/2018 9:00:00AM	02/28/2018
1802K33-005I	MW-114D-20180221-01	2/21/2018 5:40:00PM	Groundwater	ION SCAN			02/22/2018
1802K33-006A	MW-302D-20180221-01	2/21/2018 5:40:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:33:00PM	02/28/2018
1802K33-006B	MW-302D-20180221-01	2/21/2018 5:40:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/23/2018 11:00:00AM	02/26/2018
1802K33-006B	MW-302D-20180221-01	2/21/2018 5:40:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/23/2018 11:00:00AM	02/28/2018
1802K33-006B	MW-302D-20180221-01	2/21/2018 5:40:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/24/2018 6:00:00PM	02/26/2018
1802K33-006D	MW-302D-20180221-01	2/21/2018 5:40:00PM	Groundwater	GC Analysis of Gaseous Samples		2/26/2018 12:39:32PM	02/26/2018
1802K33-006E	MW-302D-20180221-01	2/21/2018 5:40:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00AM	02/27/2018
1802K33-006E	MW-302D-20180221-01	2/21/2018 5:40:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00AM	03/14/2018
1802K33-006E	MW-302D-20180221-01	2/21/2018 5:40:00PM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00PM	03/01/2018
1802K33-006F	MW-302D-20180221-01	2/21/2018 5:40:00PM	Groundwater	Cyanide		2/27/2018 2:30:00PM	02/27/2018
1802K33-006G	MW-302D-20180221-01	2/21/2018 5:40:00PM	Groundwater	Ferrous Iron			02/22/2018
1802K33-006H	MW-302D-20180221-01	2/21/2018 5:40:00PM	Groundwater	Sulfide by SW9030/9034		2/28/2018 9:00:00AM	02/28/2018
1802K33-006I	MW-302D-20180221-01	2/21/2018 5:40:00PM	Groundwater	ION SCAN			02/22/2018
1802K33-009A	MW-28-20180221-01	2/21/2018 4:40:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:33:00PM	02/28/2018
1802K33-009B	MW-28-20180221-01	2/21/2018 4:40:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/23/2018 11:00:00AM	02/26/2018
1802K33-009B	MW-28-20180221-01	2/21/2018 4:40:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/24/2018 6:00:00PM	02/26/2018
1802K33-009D	MW-28-20180221-01	2/21/2018 4:40:00PM	Groundwater	GC Analysis of Gaseous Samples		2/26/2018 12:39:32PM	02/26/2018
1802K33-009E	MW-28-20180221-01	2/21/2018 4:40:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00AM	02/28/2018
1802K33-009E	MW-28-20180221-01	2/21/2018 4:40:00PM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00PM	03/01/2018
1802K33-009F	MW-28-20180221-01	2/21/2018 4:40:00PM	Groundwater	Cyanide		2/27/2018 2:30:00PM	02/27/2018
1802K33-009G	MW-28-20180221-01	2/21/2018 4:40:00PM	Groundwater	Ferrous Iron			02/22/2018
1802K33-009H	MW-28-20180221-01	2/21/2018 4:40:00PM	Groundwater	Sulfide by SW9030/9034		2/28/2018 9:00:00AM	02/28/2018
1802K33-009I	MW-28-20180221-01	2/21/2018 4:40:00PM	Groundwater	ION SCAN			02/22/2018
1802K33-010A	MW-105-20180221-01	2/21/2018 3:15:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:33:00PM	02/28/2018
1802K33-010B	MW-105-20180221-01	2/21/2018 3:15:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/23/2018 11:00:00AM	02/26/2018

Client: ERM-Southeast
Project Name: AGLC Macon
Lab Order: 1802K33

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802K33-010B	MW-105-20180221-01	2/21/2018 3:15:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/24/2018 6:00:00PM	02/26/2018
1802K33-010D	MW-105-20180221-01	2/21/2018 3:15:00PM	Groundwater	GC Analysis of Gaseous Samples		2/26/2018 12:39:32PM	02/26/2018
1802K33-010E	MW-105-20180221-01	2/21/2018 3:15:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00AM	02/28/2018
1802K33-010E	MW-105-20180221-01	2/21/2018 3:15:00PM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00PM	03/01/2018
1802K33-010F	MW-105-20180221-01	2/21/2018 3:15:00PM	Groundwater	Cyanide		2/27/2018 2:30:00PM	02/27/2018
1802K33-010G	MW-105-20180221-01	2/21/2018 3:15:00PM	Groundwater	Ferrous Iron			02/22/2018
1802K33-010H	MW-105-20180221-01	2/21/2018 3:15:00PM	Groundwater	Sulfide by SW9030/9034		2/28/2018 9:00:00AM	02/28/2018
1802K33-010I	MW-105-20180221-01	2/21/2018 3:15:00PM	Groundwater	ION SCAN			02/22/2018
1802K33-010I	MW-105-20180221-01	2/21/2018 3:15:00PM	Groundwater	ION SCAN			02/26/2018
1802K33-011A	TRIP BLANK	2/22/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		2/27/2018 5:33:00PM	02/28/2018

Client: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: 256350

Sample ID: **MB-256350**	Client ID:		Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363818**
SampleType: **MBLK**	TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**		BatchID: **256350**	Analysis Date: **02/23/2018**	Seq No: **8041779**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,4-Dimethylphenol	BRL	10									
2-Methylphenol	BRL	10									
3,4-Methylphenol	BRL	10									
Phenol	BRL	10									
Surr: 2,4,6-Tribromophenol	99.05	0	100.0		99.0	51.4	138				
Surr: 2-Fluorobiphenyl	38.78	0	50.00		77.6	44.6	119				
Surr: 2-Fluorophenol	58.62	0	100.0		58.6	27.2	120				
Surr: 4-Terphenyl-d14	54.36	0	50.00		109	47.1	136				
Surr: Nitrobenzene-d5	43.38	0	50.00		86.8	40.7	119				
Surr: Phenol-d5	39.78	0	100.0		39.8	18.1	120				

Sample ID: **LCS-256350**	Client ID:		Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363818**
SampleType: **LCS**	TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**		BatchID: **256350**	Analysis Date: **02/23/2018**	Seq No: **8041780**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	37.20	10	100.0		37.2	26.4	120				
Surr: 2,4,6-Tribromophenol	102.6	0	100.0		103	51.4	138				
Surr: 2-Fluorobiphenyl	43.66	0	50.00		87.3	44.6	119				
Surr: 2-Fluorophenol	56.75	0	100.0		56.8	27.2	120				
Surr: 4-Terphenyl-d14	58.04	0	50.00		116	47.1	136				
Surr: Nitrobenzene-d5	44.87	0	50.00		89.7	40.7	119				
Surr: Phenol-d5	37.43	0	100.0		37.4	18.1	120				

Sample ID: **1802K30-002BMS**	Client ID:		Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363818**
SampleType: **MS**	TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**		BatchID: **256350**	Analysis Date: **02/24/2018**	Seq No: **8041817**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	48.59	10	100.0		48.6	31.5	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: 256350

Sample ID: **1802K30-002BMS**	Client ID:		Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363818**
SampleType: **MS**	TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**		BatchID: **256350**	Analysis Date: **02/24/2018**	Seq No: **8041817**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 2,4,6-Tribromophenol	96.09	0	100.0		96.1	51.4	138				
Surr: 2-Fluorobiphenyl	41.02	0	50.00		82.0	44.6	119				
Surr: 2-Fluorophenol	63.41	0	100.0		63.4	27.2	120				
Surr: 4-Terphenyl-d14	54.12	0	50.00		108	47.1	136				
Surr: Nitrobenzene-d5	37.97	0	50.00		75.9	40.7	119				
Surr: Phenol-d5	52.75	0	100.0		52.8	18.1	120				

Sample ID: **1802K30-002BMSD**	Client ID:		Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363818**
SampleType: **MSD**	TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**		BatchID: **256350**	Analysis Date: **02/24/2018**	Seq No: **8041818**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	51.59	10	100.0		51.6	31.5	120	48.59	5.99	28.5	
Surr: 2,4,6-Tribromophenol	91.81	0	100.0		91.8	51.4	138	96.09	0	0	
Surr: 2-Fluorobiphenyl	40.08	0	50.00		80.2	44.6	119	41.02	0	0	
Surr: 2-Fluorophenol	65.71	0	100.0		65.7	27.2	120	63.41	0	0	
Surr: 4-Terphenyl-d14	51.75	0	50.00		104	47.1	136	54.12	0	0	
Surr: Nitrobenzene-d5	38.90	0	50.00		77.8	40.7	119	37.97	0	0	
Surr: Phenol-d5	52.94	0	100.0		52.9	18.1	120	52.75	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: 256355

Sample ID: **MB-256355**	Client ID:		Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363819**
SampleType: **MBLK**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**		BatchID: **256355**	Analysis Date: **02/26/2018**	Seq No: **8042065**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	BRL	0.50									
Acenaphthylene	BRL	1.0									
Anthracene	BRL	0.050									
Benz(a)anthracene	BRL	0.050									
Benzo(a)pyrene	BRL	0.050									
Benzo(b)fluoranthene	BRL	0.10									
Benzo(g,h,i)perylene	BRL	0.10									
Benzo(k)fluoranthene	BRL	0.050									
Chrysene	BRL	0.050									
Dibenz(a,h)anthracene	BRL	0.10									
Fluoranthene	BRL	0.10									
Fluorene	BRL	0.10									
Indeno(1,2,3-cd)pyrene	BRL	0.050									
Naphthalene	BRL	0.50									
Phenanthrene	BRL	0.050									
Pyrene	BRL	0.050									
Surr: 4-Terphenyl-d14	1.800	0	2.000		90.0	59.9	128				

Sample ID: **LCS-256355**	Client ID:		Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363819**
SampleType: **LCS**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**		BatchID: **256355**	Analysis Date: **02/26/2018**	Seq No: **8042066**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.715	0.50	2.000		85.7	64.7	120				
Acenaphthylene	1.751	1.0	2.000		87.5	63.2	120				
Anthracene	1.785	0.050	2.000		89.2	69.3	125				
Benz(a)anthracene	1.972	0.050	2.000		98.6	71.1	141				
Benzo(a)pyrene	1.993	0.050	2.000		99.7	67.2	131				
Benzo(b)fluoranthene	1.888	0.10	2.000		94.4	66.1	134				

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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: 256355

Sample ID: **LCS-256355** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363819**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256355** Analysis Date: **02/26/2018** Seq No: **8042066**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(g,h,i)perylene	1.568	0.10	2.000		78.4	66.1	128				
Benzo(k)fluoranthene	1.982	0.050	2.000		99.1	67.7	133				
Chrysene	2.163	0.050	2.000		108	71.3	137				
Dibenz(a,h)anthracene	1.442	0.10	2.000		72.1	59.7	125				
Fluoranthene	1.885	0.10	2.000		94.3	72.3	129				
Fluorene	1.736	0.10	2.000		86.8	69.2	120				
Indeno(1,2,3-cd)pyrene	1.585	0.050	2.000		79.2	66.4	127				
Naphthalene	1.466	0.50	2.000		73.3	56.8	120				
Phenanthrene	1.700	0.050	2.000		85.0	70.9	120				
Pyrene	2.159	0.050	2.000		108	68.4	138				
Surr: 4-Terphenyl-d14	2.000	0	2.000		100.0	59.9	128				

Sample ID: **1802K30-002BMS** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363819**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256355** Analysis Date: **02/26/2018** Seq No: **8044377**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.434	0.50	2.000		71.7	61.4	120				
Acenaphthylene	1.468	1.0	2.000		73.4	63.9	120				
Anthracene	1.460	0.050	2.000		73.0	65.3	120				
Benz(a)anthracene	1.637	0.050	2.000		81.8	76.7	124				
Benzo(a)pyrene	1.647	0.050	2.000		82.3	58.5	120				
Benzo(b)fluoranthene	1.469	0.10	2.000		73.4	52.6	121				
Benzo(g,h,i)perylene	1.297	0.10	2.000		64.9	44.2	120				
Benzo(k)fluoranthene	1.604	0.050	2.000		80.2	59	120				
Chrysene	1.785	0.050	2.000		89.2	65	122				
Dibenz(a,h)anthracene	1.183	0.10	2.000		59.2	38.2	120				
Fluoranthene	1.570	0.10	2.000		78.5	71.7	118				
Fluorene	1.465	0.10	2.000		73.3	65.6	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: 256355

Sample ID: **1802K30-002BMS**	Client ID:		Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363819**
SampleType: **MS**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**		BatchID: **256355**	Analysis Date: **02/26/2018**	Seq No: **8044377**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Indeno(1,2,3-cd)pyrene	1.261	0.050	2.000		63.0	46.6	120				
Naphthalene	1.316	0.50	2.000		65.8	57.3	120				
Phenanthrene	1.387	0.050	2.000		69.3	65.6	120				
Pyrene	1.776	0.050	2.000		88.8	69	121				
Surr: 4-Terphenyl-d14	1.659	0	2.000		83.0	59.9	128				

Sample ID: **1802K30-002BMSD**	Client ID:		Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363819**
SampleType: **MSD**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**		BatchID: **256355**	Analysis Date: **02/26/2018**	Seq No: **8044378**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.709	0.50	2.000		85.5	61.4	120	1.434	17.5	24.4	
Acenaphthylene	1.734	1.0	2.000		86.7	63.9	120	1.468	16.6	27.9	
Anthracene	1.660	0.050	2.000		83.0	65.3	120	1.460	12.8	26.3	
Benz(a)anthracene	1.885	0.050	2.000		94.3	76.7	124	1.637	14.1	25	
Benzo(a)pyrene	1.889	0.050	2.000		94.5	58.5	120	1.647	13.7	23.5	
Benzo(b)fluoranthene	1.733	0.10	2.000		86.7	52.6	121	1.469	16.5	24	
Benzo(g,h,i)perylene	1.526	0.10	2.000		76.3	44.2	120	1.297	16.2	32.1	
Benzo(k)fluoranthene	1.853	0.050	2.000		92.7	59	120	1.604	14.4	19.6	
Chrysene	2.053	0.050	2.000		103	65	122	1.785	14.0	23	
Dibenz(a,h)anthracene	1.468	0.10	2.000		73.4	38.2	120	1.183	21.5	31.7	
Fluoranthene	1.846	0.10	2.000		92.3	71.7	118	1.570	16.2	23	
Fluorene	1.731	0.10	2.000		86.6	65.6	120	1.465	16.7	25	
Indeno(1,2,3-cd)pyrene	1.517	0.050	2.000		75.8	46.6	120	1.261	18.4	32.4	
Naphthalene	1.573	0.50	2.000		78.6	57.3	120	1.316	17.7	27.2	
Phenanthrene	1.644	0.050	2.000		82.2	65.6	120	1.387	17.0	23.5	
Pyrene	2.085	0.050	2.000		104	69	121	1.776	16.0	23.8	
Surr: 4-Terphenyl-d14	1.873	0	2.000		93.7	59.9	128	1.659	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: 256391

Sample ID: **MB-256391** Client ID: Units: **ug/L** Prep Date: **02/24/2018** Run No: **363923**
SampleType: **MBLK** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256391** Analysis Date: **02/26/2018** Seq No: **8044966**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,4-Dimethylphenol	BRL	10									
2-Methylphenol	BRL	10									
3,4-Methylphenol	BRL	10									
Phenol	BRL	10									
Surr: 2,4,6-Tribromophenol	67.17	0	100.0		67.2	51.4	138				
Surr: 2-Fluorobiphenyl	34.25	0	50.00		68.5	44.6	119				
Surr: 2-Fluorophenol	36.78	0	100.0		36.8	27.2	120				
Surr: 4-Terphenyl-d14	42.29	0	50.00		84.6	47.1	136				
Surr: Nitrobenzene-d5	38.08	0	50.00		76.2	40.7	119				
Surr: Phenol-d5	27.45	0	100.0		27.4	18.1	120				

Sample ID: **LCS-256391** Client ID: Units: **ug/L** Prep Date: **02/24/2018** Run No: **363923**
SampleType: **LCS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256391** Analysis Date: **02/26/2018** Seq No: **8044967**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	32.54	10	100.0		32.5	26.4	120				
Surr: 2,4,6-Tribromophenol	84.49	0	100.0		84.5	51.4	138				
Surr: 2-Fluorobiphenyl	42.18	0	50.00		84.4	44.6	119				
Surr: 2-Fluorophenol	41.21	0	100.0		41.2	27.2	120				
Surr: 4-Terphenyl-d14	56.26	0	50.00		113	47.1	136				
Surr: Nitrobenzene-d5	41.46	0	50.00		82.9	40.7	119				
Surr: Phenol-d5	32.04	0	100.0		32.0	18.1	120				

Sample ID: **1802K33-001BMS** Client ID: **MW-108-20180221-01** Units: **ug/L** Prep Date: **02/24/2018** Run No: **363923**
SampleType: **MS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256391** Analysis Date: **02/26/2018** Seq No: **8044969**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	59.28	10	100.0		59.3	31.5	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: 256391

Sample ID: **1802K33-001BMS**	Client ID: **MW-108-20180221-01**	Units: **ug/L**	Prep Date: **02/24/2018**	Run No: **363923**
SampleType: **MS**	TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**	BatchID: **256391**	Analysis Date: **02/26/2018**	Seq No: **8044969**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 2,4,6-Tribromophenol	83.21	0	100.0		83.2	51.4	138				
Surr: 2-Fluorobiphenyl	36.15	0	50.00		72.3	44.6	119				
Surr: 2-Fluorophenol	61.40	0	100.0		61.4	27.2	120				
Surr: 4-Terphenyl-d14	51.41	0	50.00		103	47.1	136				
Surr: Nitrobenzene-d5	42.08	0	50.00		84.2	40.7	119				
Surr: Phenol-d5	57.72	0	100.0		57.7	18.1	120				

Sample ID: **1802K33-001BMSD**	Client ID: **MW-108-20180221-01**	Units: **ug/L**	Prep Date: **02/24/2018**	Run No: **363923**
SampleType: **MSD**	TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**	BatchID: **256391**	Analysis Date: **02/26/2018**	Seq No: **8044970**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	49.01	10	100.0		49.0	31.5	120	59.28	19.0	28.5	
Surr: 2,4,6-Tribromophenol	82.43	0	100.0		82.4	51.4	138	83.21	0	0	
Surr: 2-Fluorobiphenyl	39.68	0	50.00		79.4	44.6	119	36.15	0	0	
Surr: 2-Fluorophenol	54.95	0	100.0		55.0	27.2	120	61.40	0	0	
Surr: 4-Terphenyl-d14	50.93	0	50.00		102	47.1	136	51.41	0	0	
Surr: Nitrobenzene-d5	39.80	0	50.00		79.6	40.7	119	42.08	0	0	
Surr: Phenol-d5	49.64	0	100.0		49.6	18.1	120	57.72	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: 256410

Sample ID: **MB-256410**	Client ID:		Units: **ug/L**	Prep Date: **02/26/2018**	Run No: **364040**
SampleType: **MBLK**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**		BatchID: **256410**	Analysis Date: **02/27/2018**	Seq No: **8045666**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	BRL	0.50									
Acenaphthylene	BRL	1.0									
Anthracene	BRL	0.050									
Benz(a)anthracene	BRL	0.050									
Benzo(a)pyrene	BRL	0.050									
Benzo(b)fluoranthene	BRL	0.10									
Benzo(g,h,i)perylene	BRL	0.10									
Benzo(k)fluoranthene	BRL	0.050									
Chrysene	BRL	0.050									
Dibenz(a,h)anthracene	BRL	0.10									
Fluoranthene	BRL	0.10									
Fluorene	BRL	0.10									
Indeno(1,2,3-cd)pyrene	BRL	0.050									
Naphthalene	BRL	0.50									
Phenanthrene	BRL	0.050									
Pyrene	BRL	0.050									
Surr: 4-Terphenyl-d14	1.540	0	2.000		77.0	59.9	128				

Sample ID: **LCS-256410**	Client ID:		Units: **ug/L**	Prep Date: **02/26/2018**	Run No: **364040**
SampleType: **LCS**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**		BatchID: **256410**	Analysis Date: **02/27/2018**	Seq No: **8045667**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.768	0.50	2.000		88.4	64.7	120				
Acenaphthylene	1.825	1.0	2.000		91.2	63.2	120				
Anthracene	1.962	0.050	2.000		98.1	69.3	125				
Benz(a)anthracene	2.099	0.050	2.000		105	71.1	141				
Benzo(a)pyrene	2.012	0.050	2.000		101	67.2	131				
Benzo(b)fluoranthene	2.025	0.10	2.000		101	66.1	134				

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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: 256410

Sample ID: **LCS-256410** Client ID: Units: **ug/L** Prep Date: **02/26/2018** Run No: **364040**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256410** Analysis Date: **02/27/2018** Seq No: **8045667**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(g,h,i)perylene	1.893	0.10	2.000		94.7	66.1	128				
Benzo(k)fluoranthene	1.674	0.050	2.000		83.7	67.7	133				
Chrysene	1.939	0.050	2.000		97.0	71.3	137				
Dibenz(a,h)anthracene	1.862	0.10	2.000		93.1	59.7	125				
Fluoranthene	1.928	0.10	2.000		96.4	72.3	129				
Fluorene	1.976	0.10	2.000		98.8	69.2	120				
Indeno(1,2,3-cd)pyrene	1.972	0.050	2.000		98.6	66.4	127				
Naphthalene	1.655	0.50	2.000		82.7	56.8	120				
Phenanthrene	1.815	0.050	2.000		90.7	70.9	120				
Pyrene	2.001	0.050	2.000		100	68.4	138				
Surr: 4-Terphenyl-d14	2.318	0	2.000		116	59.9	128				

Sample ID: **1802K33-001BMS** Client ID: **MW-108-20180221-01** Units: **ug/L** Prep Date: **02/26/2018** Run No: **364040**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256410** Analysis Date: **02/27/2018** Seq No: **8045669**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.715	0.50	2.000	1.325	19.5	61.4	120				S
Acenaphthylene	BRL	1.0	2.000	0.2342	23.6	63.9	120				S
Anthracene	0.6195	0.050	2.000	0.1266	24.6	65.3	120				S
Benz(a)anthracene	0.6018	0.050	2.000		30.1	76.7	124				S
Benzo(a)pyrene	0.5077	0.050	2.000		25.4	58.5	120				S
Benzo(b)fluoranthene	0.5167	0.10	2.000		25.8	52.6	121				S
Benzo(g,h,i)perylene	0.4576	0.10	2.000		22.9	44.2	120				S
Benzo(k)fluoranthene	0.3880	0.050	2.000		19.4	59	120				S
Chrysene	0.4964	0.050	2.000		24.8	65	122				S
Dibenz(a,h)anthracene	0.4416	0.10	2.000		22.1	38.2	120				S
Fluoranthene	0.5587	0.10	2.000		27.9	71.7	118				S
Fluorene	0.7478	0.10	2.000	0.2399	25.4	65.6	120				S

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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: 256410

Sample ID: **1802K33-001BMS** Client ID: **MW-108-20180221-01** Units: **ug/L** Prep Date: **02/26/2018** Run No: **364040**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256410** Analysis Date: **02/27/2018** Seq No: **8045669**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Indeno(1,2,3-cd)pyrene	0.4621	0.050	2.000		23.1	46.6	120				S
Naphthalene	0.7957	0.50	2.000	0.06525	36.5	57.3	120				S
Phenanthrene	0.5065	0.050	2.000		25.3	65.6	120				S
Pyrene	0.7673	0.050	2.000	0.2614	25.3	69	121				S
Surr: 4-Terphenyl-d14	0.6217	0	2.000		31.1	59.9	128				S

Sample ID: **1802K33-001BMSD** Client ID: **MW-108-20180221-01** Units: **ug/L** Prep Date: **02/26/2018** Run No: **364040**
SampleType: **MSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256410** Analysis Date: **02/27/2018** Seq No: **8045670**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	2.423	0.50	2.000	1.325	54.9	61.4	120	1.715	34.2	24.4	SR
Acenaphthylene	1.015	1.0	2.000	0.2342	39.0	63.9	120	0.7056	36.0	27.9	SR
Anthracene	0.9040	0.050	2.000	0.1266	38.9	65.3	120	0.6195	37.4	26.3	SR
Benz(a)anthracene	0.8962	0.050	2.000		44.8	76.7	124	0.6018	39.3	25	SR
Benzo(a)pyrene	0.7523	0.050	2.000		37.6	58.5	120	0.5077	38.8	23.5	SR
Benzo(b)fluoranthene	0.7664	0.10	2.000		38.3	52.6	121	0.5167	38.9	24	SR
Benzo(g,h,i)perylene	0.6599	0.10	2.000		33.0	44.2	120	0.4576	36.2	32.1	SR
Benzo(k)fluoranthene	0.5740	0.050	2.000		28.7	59	120	0.3880	38.7	19.6	SR
Chrysene	0.7364	0.050	2.000		36.8	65	122	0.4964	38.9	23	SR
Dibenz(a,h)anthracene	0.6713	0.10	2.000		33.6	38.2	120	0.4416	41.3	31.7	SR
Fluoranthene	0.8215	0.10	2.000		41.1	71.7	118	0.5587	38.1	23	SR
Fluorene	1.050	0.10	2.000	0.2399	40.5	65.6	120	0.7478	33.6	25	SR
Indeno(1,2,3-cd)pyrene	0.6581	0.050	2.000		32.9	46.6	120	0.4621	35.0	32.4	SR
Naphthalene	0.7515	0.50	2.000	0.06525	34.3	57.3	120	0.7957	5.72	27.2	S
Phenanthrene	0.7322	0.050	2.000		36.6	65.6	120	0.5065	36.4	23.5	SR
Pyrene	1.106	0.050	2.000	0.2614	42.2	69	121	0.7673	36.1	23.8	SR
Surr: 4-Terphenyl-d14	0.8916	0	2.000		44.6	59.9	128	0.6217	0	0	S

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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: 256426

Sample ID: **MB-256426** Client ID: Units: **mg/L** Prep Date: **02/26/2018** Run No: **364129**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010D** BatchID: **256426** Analysis Date: **02/27/2018** Seq No: **8048038**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	0.0200									
Arsenic	BRL	0.0500									
Barium	BRL	0.0200									
Beryllium	BRL	0.0100									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Copper	BRL	0.0100									
Iron	BRL	0.100									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Zinc	BRL	0.0200									

Sample ID: **LCS-256426** Client ID: Units: **mg/L** Prep Date: **02/26/2018** Run No: **364129**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010D** BatchID: **256426** Analysis Date: **02/27/2018** Seq No: **8048039**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9358	0.0200	1.000		93.6	80	120				
Arsenic	0.9335	0.0500	1.000		93.4	80	120				
Barium	0.9397	0.0200	1.000		94.0	80	120				
Beryllium	0.8974	0.0100	1.000		89.7	80	120				
Cadmium	0.9314	0.0050	1.000		93.1	80	120				
Chromium	0.9066	0.0100	1.000		90.7	80	120				
Copper	0.8931	0.0100	1.000		89.3	80	120				
Iron	8.860	0.100	10.00		88.6	80	120				
Lead	0.8929	0.0100	1.000		89.3	80	120				
Nickel	0.9296	0.0200	1.000		93.0	80	120				
Zinc	0.9299	0.0200	1.000		93.0	80	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: 256426

Sample ID: **1802K33-001EMS**	Client ID: **MW-108-20180221-01**	Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **364129**
SampleType: **MS**	TestCode: **METALS, TOTAL SW6010D**	BatchID: **256426**	Analysis Date: **02/27/2018**	Seq No: **8048043**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9450	0.0200	1.000		94.5	75	125				
Arsenic	0.9508	0.0500	1.000	0.01433	93.6	75	125				
Barium	1.023	0.0200	1.000	0.1079	91.5	75	125				
Beryllium	0.8829	0.0100	1.000		88.3	75	125				
Cadmium	0.9254	0.0050	1.000		92.5	75	125				
Chromium	0.8934	0.0100	1.000		89.3	75	125				
Copper	0.9075	0.0100	1.000		90.8	75	125				
Iron	20.07	0.100	10.00	11.36	87.1	75	125				
Lead	0.8748	0.0100	1.000		87.5	75	125				
Nickel	0.9044	0.0200	1.000		90.4	75	125				
Zinc	0.9080	0.0200	1.000	0.01014	89.8	75	125				

Sample ID: **1802K33-001EMSD**	Client ID: **MW-108-20180221-01**	Units: **mg/L**	Prep Date: **02/26/2018**	Run No: **364129**
SampleType: **MSD**	TestCode: **METALS, TOTAL SW6010D**	BatchID: **256426**	Analysis Date: **02/27/2018**	Seq No: **8048045**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9565	0.0200	1.000		95.6	75	125	0.9450	1.21	20	
Arsenic	0.9451	0.0500	1.000	0.01433	93.1	75	125	0.9508	0.596	20	
Barium	1.018	0.0200	1.000	0.1079	91.0	75	125	1.023	0.487	20	
Beryllium	0.8854	0.0100	1.000		88.5	75	125	0.8829	0.282	20	
Cadmium	0.9195	0.0050	1.000		92.0	75	125	0.9254	0.638	20	
Chromium	0.8885	0.0100	1.000		88.9	75	125	0.8934	0.554	20	
Copper	0.9007	0.0100	1.000		90.1	75	125	0.9075	0.752	20	
Iron	19.93	0.100	10.00	11.36	85.7	75	125	20.07	0.701	20	
Lead	0.8588	0.0100	1.000		85.9	75	125	0.8748	1.84	20	
Nickel	0.9060	0.0200	1.000		90.6	75	125	0.9044	0.169	20	
Zinc	0.9074	0.0200	1.000	0.01014	89.7	75	125	0.9080	0.069	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: 256463

Sample ID: **MB-256463**	Client ID:				Units: **ug/L**		Prep Date: **02/26/2018**		Run No: **363983**
SampleType: **MBLK**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256463**		Analysis Date: **02/26/2018**		Seq No: **8044004**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	BRL	4.0									

Sample ID: **LCS-256463**	Client ID:				Units: **ug/L**		Prep Date: **02/26/2018**		Run No: **363983**
SampleType: **LCS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256463**		Analysis Date: **02/26/2018**		Seq No: **8044005**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	110.6	4.0	200.0		55.3	45.1	115				

Sample ID: **LCSD-256463**	Client ID:				Units: **ug/L**		Prep Date: **02/26/2018**		Run No: **363983**
SampleType: **LCSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256463**		Analysis Date: **02/26/2018**		Seq No: **8044006**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	104.7	4.0	200.0		52.3	45.1	115	110.6	5.47	20	

Sample ID: **1802K30-002DMS**	Client ID:				Units: **ug/L**		Prep Date: **02/26/2018**		Run No: **363983**
SampleType: **MS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256463**		Analysis Date: **02/26/2018**		Seq No: **8044010**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	140.4	4.0	200.0	40.40	50.0	42	115				

Sample ID: **1802K30-002DMSD**	Client ID:				Units: **ug/L**		Prep Date: **02/26/2018**		Run No: **363983**
SampleType: **MSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256463**		Analysis Date: **02/26/2018**		Seq No: **8044011**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	135.5	4.0	200.0	40.40	47.5	42	115	140.4	3.55	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: 256498

Sample ID: **MB-256498**	Client ID:			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364180**
SampleType: **MBLK**	TestCode: **Mercury, Total SW7470A**			BatchID: **256498**	Analysis Date: **02/28/2018**	Seq No: **8049166**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020									

Sample ID: **LCS-256498**	Client ID:			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364180**
SampleType: **LCS**	TestCode: **Mercury, Total SW7470A**			BatchID: **256498**	Analysis Date: **02/28/2018**	Seq No: **8049167**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003980	0.00020	0.0040	0.00007578	97.6	80	120				

Sample ID: **1802J52-001GMS**	Client ID:			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364180**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**			BatchID: **256498**	Analysis Date: **02/28/2018**	Seq No: **8049172**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004030	0.00020	0.0040	0.00008264	98.7	70	130				

Sample ID: **1802K33-001EMS**	Client ID: **MW-108-20180221-01**			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364180**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**			BatchID: **256498**	Analysis Date: **02/28/2018**	Seq No: **8049169**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003976	0.00020	0.0040		99.4	70	130				

Sample ID: **1802K33-001EMSD**	Client ID: **MW-108-20180221-01**			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364180**
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**			BatchID: **256498**	Analysis Date: **02/28/2018**	Seq No: **8049170**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003931	0.00020	0.0040		98.3	70	130	0.003976	1.14	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: 256509

Sample ID: **MB-256509**	Client ID:			Units: **ug/L**	Prep Date: **02/27/2018**	Run No: **364102**
SampleType: **MBLK**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256509**	Analysis Date: **02/27/2018**	Seq No: **8047220**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	BRL	4.0									

Sample ID: **LCS-256509**	Client ID:			Units: **ug/L**	Prep Date: **02/27/2018**	Run No: **364102**
SampleType: **LCS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256509**	Analysis Date: **02/27/2018**	Seq No: **8047221**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	122.8	4.0	200.0		61.4	45.1	115				

Sample ID: **LCSD-256509**	Client ID:			Units: **ug/L**	Prep Date: **02/27/2018**	Run No: **364102**
SampleType: **LCSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256509**	Analysis Date: **02/27/2018**	Seq No: **8047222**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	117.1	4.0	200.0		58.5	45.1	115	122.8	4.76	20	

Sample ID: **1802K33-001DMS**	Client ID: **MW-108-20180221-01**			Units: **ug/L**	Prep Date: **02/27/2018**	Run No: **364102**
SampleType: **MS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256509**	Analysis Date: **02/27/2018**	Seq No: **8047225**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	282.1	4.0	200.0	159.9	61.1	42	115				

Sample ID: **1802K33-001DMSD**	Client ID: **MW-108-20180221-01**			Units: **ug/L**	Prep Date: **02/27/2018**	Run No: **364102**
SampleType: **MSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256509**	Analysis Date: **02/27/2018**	Seq No: **8047226**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	286.1	4.0	200.0	159.9	63.1	42	115	282.1	1.39	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: 256541

Sample ID: **MB-256541**	Client ID:			Units: **mg/L**	Prep Date: **02/27/2018**	Run No: **364052**
SampleType: **MBLK**	TestCode: **Cyanide SW9014**			BatchID: **256541**	Analysis Date: **02/27/2018**	Seq No: **8045709**

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

Sample ID: **LCS-256541**	Client ID:			Units: **mg/L**	Prep Date: **02/27/2018**	Run No: **364052**
SampleType: **LCS**	TestCode: **Cyanide SW9014**			BatchID: **256541**	Analysis Date: **02/27/2018**	Seq No: **8045710**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2690	0.010	0.2500		108	85	115				

Sample ID: **1802K33-001FMS**	Client ID: **MW-108-20180221-01**			Units: **mg/L**	Prep Date: **02/27/2018**	Run No: **364052**
SampleType: **MS**	TestCode: **Cyanide SW9014**			BatchID: **256541**	Analysis Date: **02/27/2018**	Seq No: **8045742**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.3220	0.010	0.2500	0.05950	105	70	130				

Sample ID: **1802K33-001FMSD**	Client ID: **MW-108-20180221-01**			Units: **mg/L**	Prep Date: **02/27/2018**	Run No: **364052**
SampleType: **MSD**	TestCode: **Cyanide SW9014**			BatchID: **256541**	Analysis Date: **02/27/2018**	Seq No: **8045743**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.3240	0.010	0.2500	0.05950	106	70	130	0.3220	0.619	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: 256557

Sample ID: **MB-256557** Client ID: Units: **ug/L** Prep Date: **02/27/2018** Run No: **364038**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256557** Analysis Date: **02/27/2018** Seq No: **8046381**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	5.0									
Carbon disulfide	BRL	5.0									
Ethylbenzene	BRL	5.0									
Toluene	BRL	5.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	45.91	0	50.00		91.8	68	127				
Surr: Dibromofluoromethane	50.81	0	50.00		102	84.4	122				
Surr: Toluene-d8	51.04	0	50.00		102	80.1	116				

Sample ID: **LCS-256557** Client ID: Units: **ug/L** Prep Date: **02/27/2018** Run No: **364038**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256557** Analysis Date: **02/27/2018** Seq No: **8046383**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	46.13	5.0	50.00		92.3	73.7	126				
Toluene	46.86	5.0	50.00		93.7	76.8	125				
Surr: 4-Bromofluorobenzene	45.07	0	50.00		90.1	68	127				
Surr: Dibromofluoromethane	52.00	0	50.00		104	84.4	122				
Surr: Toluene-d8	51.30	0	50.00		103	80.1	116				

Sample ID: **1802K33-001AMS** Client ID: **MW-108-20180221-01** Units: **ug/L** Prep Date: **02/27/2018** Run No: **364038**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256557** Analysis Date: **02/27/2018** Seq No: **8046386**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	47.73	5.0	50.00	0.9500	93.6	66.1	137				
Toluene	47.43	5.0	50.00	0.4300	94.0	63.8	141				
Surr: 4-Bromofluorobenzene	45.74	0	50.00		91.5	68	127				
Surr: Dibromofluoromethane	50.01	0	50.00		100	84.4	122				
Surr: Toluene-d8	50.42	0	50.00		101	80.1	116				

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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: 256557

Sample ID: **1802K33-001AMSD** Client ID: **MW-108-20180221-01** Units: **ug/L** Prep Date: **02/27/2018** Run No: **364038**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256557** Analysis Date: **02/27/2018** Seq No: **8046387**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	49.01	5.0	50.00	0.9500	96.1	66.1	137	47.73	2.65	20	
Toluene	49.63	5.0	50.00	0.4300	98.4	63.8	141	47.43	4.53	20	
Surr: 4-Bromofluorobenzene	45.45	0	50.00		90.9	68	127	45.74	0	0	
Surr: Dibromofluoromethane	51.83	0	50.00		104	84.4	122	50.01	0	0	
Surr: Toluene-d8	50.44	0	50.00		101	80.1	116	50.42	0	0	

Client: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: 256591

Sample ID: **MB-256591**	Client ID:		Units: **mg/L**	Prep Date: **02/27/2018**	Run No: **364097**
SampleType: **MBLK**	TestCode: **Sulfide by SW9030B/9034**		BatchID: **256591**	Analysis Date: **02/27/2018**	Seq No: **8047123**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	2.00									

Sample ID: **LCS-256591**	Client ID:		Units: **mg/L**	Prep Date: **02/27/2018**	Run No: **364097**
SampleType: **LCS**	TestCode: **Sulfide by SW9030B/9034**		BatchID: **256591**	Analysis Date: **02/27/2018**	Seq No: **8047124**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	296.0	2.00	296.0		100	70	130				

Sample ID: **1802K33-001HMS**	Client ID: **MW-108-20180221-01**		Units: **mg/L**	Prep Date: **02/27/2018**	Run No: **364097**
SampleType: **MS**	TestCode: **Sulfide by SW9030B/9034**		BatchID: **256591**	Analysis Date: **02/27/2018**	Seq No: **8047146**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	15.40	2.00	14.80		104	62.8	125				

Sample ID: **1802K33-001HMSD**	Client ID: **MW-108-20180221-01**		Units: **mg/L**	Prep Date: **02/27/2018**	Run No: **364097**
SampleType: **MSD**	TestCode: **Sulfide by SW9030B/9034**		BatchID: **256591**	Analysis Date: **02/27/2018**	Seq No: **8047147**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	15.60	2.00	14.80		105	62.8	125	15.40	1.29	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: 256592

Sample ID: **MB-256592**	Client ID:			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364227**
SampleType: **MBLK**	TestCode: **Mercury, Total SW7470A**			BatchID: **256592**	Analysis Date: **03/01/2018**	Seq No: **8050447**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020									

Sample ID: **LCS-256592**	Client ID:			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364227**
SampleType: **LCS**	TestCode: **Mercury, Total SW7470A**			BatchID: **256592**	Analysis Date: **03/01/2018**	Seq No: **8050448**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003896	0.00020	0.0040		97.4	80	120				

Sample ID: **1802K33-002EMS**	Client ID: **MW-109-20180221-01**			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364227**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**			BatchID: **256592**	Analysis Date: **03/01/2018**	Seq No: **8050450**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003737	0.00020	0.0040		93.4	70	130				

Sample ID: **1802K33-002EMSD**	Client ID: **MW-109-20180221-01**			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364227**
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**			BatchID: **256592**	Analysis Date: **03/01/2018**	Seq No: **8050451**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004099	0.00020	0.0040		102	70	130	0.003737	9.24	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: R363915

Sample ID: **MB-R363915**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **MBLK**	TestCode: **Ferrous Iron**					BatchID: **R363915**		Analysis Date: **02/21/2018**		Seq No: **8042203**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R363915**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **LCS**	TestCode: **Ferrous Iron**					BatchID: **R363915**		Analysis Date: **02/21/2018**		Seq No: **8042204**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5060	0.100	0.5000		101	85	115				

Sample ID: **1802J52-001IMS**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **MS**	TestCode: **Ferrous Iron**					BatchID: **R363915**		Analysis Date: **02/21/2018**		Seq No: **8042224**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5170	0.100	0.5000		103	80	120				

Sample ID: **1802K30-002GMS**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **MS**	TestCode: **Ferrous Iron**					BatchID: **R363915**		Analysis Date: **02/22/2018**		Seq No: **8042229**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	9.820	1.00	5.000	4.480	107	80	120				

Sample ID: **1802J52-001IMSD**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **MSD**	TestCode: **Ferrous Iron**					BatchID: **R363915**		Analysis Date: **02/21/2018**		Seq No: **8042226**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.4970	0.100	0.5000		99.4	80	120	0.5170	3.94	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: R363915

Sample ID: **1802K30-002GMSD** Client ID:
SampleType: **MSD** TestCode: **Ferrous Iron**
Units: **mg/L** Prep Date: Run No: **363915**
BatchID: **R363915** Analysis Date: **02/22/2018** Seq No: **8042231**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	9.950	1.00	5.000	4.480	109	80	120	9.820	1.32	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: R363918

Sample ID: **MB-R363918**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363918**	
SampleType: **MBLK**	TestCode: **Ferrous Iron**					BatchID: **R363918**		Analysis Date: **02/22/2018**		Seq No: **8042242**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R363918**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363918**	
SampleType: **LCS**	TestCode: **Ferrous Iron**					BatchID: **R363918**		Analysis Date: **02/22/2018**		Seq No: **8042243**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.4860	0.100	0.5000		97.2	85	115				

Sample ID: **1802K33-001GMS**	Client ID: **MW-108-20180221-01**					Units: **mg/L**		Prep Date:		Run No: **363918**	
SampleType: **MS**	TestCode: **Ferrous Iron**					BatchID: **R363918**		Analysis Date: **02/22/2018**		Seq No: **8042260**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	11.62	1.00	5.000	6.400	104	80	120				

Sample ID: **1802K33-001GMSD**	Client ID: **MW-108-20180221-01**					Units: **mg/L**		Prep Date:		Run No: **363918**	
SampleType: **MSD**	TestCode: **Ferrous Iron**					BatchID: **R363918**		Analysis Date: **02/22/2018**		Seq No: **8042261**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	11.73	1.00	5.000	6.400	107	80	120	11.62	0.942	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: R363962

Sample ID: **MB-R363962**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **363962**
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**			BatchID: **R363962**	Analysis Date: **02/22/2018**		Seq No: **8043487**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R363962**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **363962**
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**			BatchID: **R363962**	Analysis Date: **02/22/2018**		Seq No: **8043486**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.868	0.25	5.000		97.4	90	110				
Sulfate	24.53	1.0	25.00		98.1	90	110				

Sample ID: **1802K30-002IMS**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **363962**
SampleType: **MS**	TestCode: **ION SCAN SW9056A**			BatchID: **R363962**	Analysis Date: **02/23/2018**		Seq No: **8043519**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	48.05	2.5	50.00		96.1	90	110				
Sulfate	229.5	10	250.0	3.740	90.3	90	110				

Sample ID: **1802K33-001IMS**	Client ID: **MW-108-20180221-01**			Units: **mg/L**	Prep Date:		Run No: **363962**
SampleType: **MS**	TestCode: **ION SCAN SW9056A**			BatchID: **R363962**	Analysis Date: **02/23/2018**		Seq No: **8043513**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	49.21	2.5	50.00	0.5841	97.2	90	110				
Sulfate	454.8	10	250.0	315.9	55.5	90	110				S

Sample ID: **1802K33-001IMSD**	Client ID: **MW-108-20180221-01**			Units: **mg/L**	Prep Date:		Run No: **363962**
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**			BatchID: **R363962**	Analysis Date: **02/23/2018**		Seq No: **8043514**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	49.77	2.5	50.00	0.5841	98.4	90	110	49.21	1.14	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K33

ANALYTICAL QC SUMMARY REPORT

BatchID: R363962

Sample ID: **1802K33-001IMSD** Client ID: **MW-108-20180221-01** Units: **mg/L** Prep Date: Run No: **363962**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R363962** Analysis Date: **02/23/2018** Seq No: **8043514**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	450.5	10	250.0	315.9	53.8	90	110	454.8	0.947	20	S

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.

March 13, 2018

Adria Reimer
ERM-Southeast

3200 Windy Hill Rd
Atlanta GA 30339

RE: AGLC Macon

Dear Adria Reimer: Order No: 1802K34

Analytical Environmental Services, Inc. received 3 samples on February 22, 2018 9:05 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's accreditations are as follows:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.
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.

Sincerely,

Mirzeta Kararic

Mirzeta Kararic

Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1802K34

Date: 2/21/18 Page 1 of 1

COMPANY: ERM

ADDRESS: 3200 WINDY HILL RD SE SUITE 1500W ATLANTA, GA 30339

PHONE: (678)-486-2700

EMAIL: alora.rehner@erm.com.

SAMPLED BY: A. ELLIS

SIGNATURE: [signature]

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

ANALYSIS REQUESTED: SVOC | VOC | dissolved gases | methane | nitrate/sulfate/chloride | ferrous iron | sulfide | total metals mercury | total cyanide

PRESERVATION (see codes): I | Zn | Zn | O | I | I | Zn SH | SH I | SH

#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX	SVOC	VOC	dissolved gases	methane	nitrate/sulfate/chloride	ferrous iron	sulfide	total metals mercury	total cyanide	REMARKS	Number of Containers
1	MW-304D-20180221-01	2/21/18	15:28	X		GW	2	2	2	2	1	1	1	1		O=benzalkonium	13
2	DUP-1-20180221-01	+/-	—			GW	2	2	2	2	1	1	1	1		chloride	13
3	TB-7-20180221-01					W		2								Zn= zinc acetate	2
4																SH= sodium	
5																hydroxide	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. [signature]	2-21-18 1918	1. MONIQUE A.	9:05am 2/22/18
2.		2.	
3.		3.	

PROJECT INFORMATION

PROJECT NAME: AGL MACON

PROJECT #: 0366660

SITE ADDRESS: 137 MALBERRY ST MACON, GA

SEND REPORT TO: alora.rehner@erm.com

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers: 28

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

STATE PROGRAM (if any): GA

E-mail? [x] Fax? [ ]

DATA PACKAGE: I ○ II ○ III ○ IV ○

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client (FedEx) UPS US mail courier Greyhound other:

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

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

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

Client: ERM-Southeast
Project: AGLC Macon
Lab ID: 1802K34

Case Narrative

Ferrous Iron by SM3500Fe-B:

Method 3500Fe-B as listed in Standard Methods for the Examination of Water and Wastewater 22nd Edition is applicable for analyzing Ferrous Iron in the field. Samples were analyzed in the laboratory which is a deviation from the method.

Ion Scan Analysis by Method 9056A:

Due to sample matrix, sample 1802K34-002I required dilution during preparation and/or analysis resulting in elevated reporting limits.

Ferrous Iron Analysis by Method SM3500-Fe D:

Due to sample matrix, sample 1802K34-001G required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc **Date:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-304D-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018 3:28:00 PM
Lab ID:	1802K34-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256437	1	02/23/2018 17:46	NP
Carbon disulfide	BRL	5.0		ug/L	256437	1	02/23/2018 17:46	NP
Ethylbenzene	BRL	5.0		ug/L	256437	1	02/23/2018 17:46	NP
Toluene	BRL	5.0		ug/L	256437	1	02/23/2018 17:46	NP
Xylenes, Total	BRL	5.0		ug/L	256437	1	02/23/2018 17:46	NP
Surr: 4-Bromofluorobenzene	97	68-127		%REC	256437	1	02/23/2018 17:46	NP
Surr: Dibromofluoromethane	103	84.4-122		%REC	256437	1	02/23/2018 17:46	NP
Surr: Toluene-d8	103	80.1-116		%REC	256437	1	02/23/2018 17:46	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256591	1	02/28/2018 11:20	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256355	1	02/26/2018 17:08	YH
Acenaphthylene	BRL	1.0		ug/L	256355	1	02/26/2018 17:08	YH
Acenaphthene	BRL	0.50		ug/L	256355	1	02/26/2018 17:08	YH
Fluorene	BRL	0.10		ug/L	256355	1	02/26/2018 17:08	YH
Phenanthrene	BRL	0.050		ug/L	256355	1	02/26/2018 17:08	YH
Anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 17:08	YH
Fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 17:08	YH
Pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 17:08	YH
Benz(a)anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 17:08	YH
Chrysene	BRL	0.050		ug/L	256355	1	02/26/2018 17:08	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 17:08	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256355	1	02/26/2018 17:08	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 17:08	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 17:08	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256355	1	02/26/2018 17:08	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256355	1	02/26/2018 17:08	YH
Surr: 4-Terphenyl-d14	165	59.9-128	S	%REC	256355	1	02/26/2018 17:08	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256350	1	02/23/2018 21:25	YH
2-Methylphenol	BRL	10		ug/L	256350	1	02/23/2018 21:25	YH
3,4-Methylphenol	BRL	10		ug/L	256350	1	02/23/2018 21:25	YH
Phenol	BRL	10		ug/L	256350	1	02/23/2018 21:25	YH
Surr: 2,4,6-Tribromophenol	80.7	51.4-138		%REC	256350	1	02/23/2018 21:25	YH
Surr: 2-Fluorobiphenyl	76.2	44.6-119		%REC	256350	1	02/23/2018 21:25	YH
Surr: 2-Fluorophenol	63.3	27.2-120		%REC	256350	1	02/23/2018 21:25	YH
Surr: 4-Terphenyl-d14	92.1	47.1-136		%REC	256350	1	02/23/2018 21:25	YH
Surr: Nitrobenzene-d5	74.6	40.7-119		%REC	256350	1	02/23/2018 21:25	YH

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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-304D-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018 3:28:00 PM
Lab ID:	1802K34-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	51.2	18.1-120		%REC	256350	1	02/23/2018 21:25	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256592	1	03/01/2018 03:50	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363962	1	02/22/2018 14:01	MP
Sulfate	1.3	1.0		mg/L	R363962	1	02/22/2018 14:01	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	16	4.0		ug/L	256463	1	02/26/2018 15:19	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.500		mg/L	R363915	5	02/22/2018 10:00	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	256541	1	02/27/2018 16:00	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256423	1	02/27/2018 17:43	JR
Arsenic	BRL	0.0500		mg/L	256423	1	02/27/2018 17:43	JR
Barium	3.65	0.0200		mg/L	256423	1	02/27/2018 17:43	JR
Beryllium	BRL	0.0100		mg/L	256423	1	02/27/2018 17:43	JR
Cadmium	BRL	0.0050		mg/L	256423	1	02/27/2018 17:43	JR
Chromium	BRL	0.0100		mg/L	256423	1	02/27/2018 17:43	JR
Copper	BRL	0.0100		mg/L	256423	1	02/27/2018 17:43	JR
Iron	3.19	0.100		mg/L	256423	1	02/27/2018 17:43	JR
Lead	BRL	0.0100		mg/L	256423	1	02/27/2018 17:43	JR
Nickel	0.0427	0.0200		mg/L	256423	1	02/27/2018 17:43	JR
Zinc	BRL	0.0200		mg/L	256423	1	02/27/2018 17:43	JR

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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	DUP-1-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018
Lab ID:	1802K34-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	8.4	5.0		ug/L	256437	1	02/23/2018 18:10	NP
Carbon disulfide	BRL	5.0		ug/L	256437	1	02/23/2018 18:10	NP
Ethylbenzene	BRL	5.0		ug/L	256437	1	02/23/2018 18:10	NP
Toluene	BRL	5.0		ug/L	256437	1	02/23/2018 18:10	NP
Xylenes, Total	BRL	5.0		ug/L	256437	1	02/23/2018 18:10	NP
Surr: 4-Bromofluorobenzene	97.6	68-127		%REC	256437	1	02/23/2018 18:10	NP
Surr: Dibromofluoromethane	99.9	84.4-122		%REC	256437	1	02/23/2018 18:10	NP
Surr: Toluene-d8	101	80.1-116		%REC	256437	1	02/23/2018 18:10	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256591	1	02/28/2018 11:20	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256355	1	02/26/2018 17:34	YH
Acenaphthylene	BRL	1.0		ug/L	256355	1	02/26/2018 17:34	YH
Acenaphthene	0.55	0.50		ug/L	256355	1	02/26/2018 17:34	YH
Fluorene	0.28	0.10		ug/L	256355	1	02/26/2018 17:34	YH
Phenanthrene	0.32	0.050		ug/L	256355	1	02/26/2018 17:34	YH
Anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 17:34	YH
Fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 17:34	YH
Pyrene	0.11	0.050		ug/L	256355	1	02/26/2018 17:34	YH
Benz(a)anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 17:34	YH
Chrysene	BRL	0.050		ug/L	256355	1	02/26/2018 17:34	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 17:34	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256355	1	02/26/2018 17:34	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 17:34	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 17:34	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256355	1	02/26/2018 17:34	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256355	1	02/26/2018 17:34	YH
Surr: 4-Terphenyl-d14	98.7	59.9-128		%REC	256355	1	02/26/2018 17:34	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256350	1	02/23/2018 21:51	YH
2-Methylphenol	BRL	10		ug/L	256350	1	02/23/2018 21:51	YH
3,4-Methylphenol	BRL	10		ug/L	256350	1	02/23/2018 21:51	YH
Phenol	BRL	10		ug/L	256350	1	02/23/2018 21:51	YH
Surr: 2,4,6-Tribromophenol	90.3	51.4-138		%REC	256350	1	02/23/2018 21:51	YH
Surr: 2-Fluorobiphenyl	83.6	44.6-119		%REC	256350	1	02/23/2018 21:51	YH
Surr: 2-Fluorophenol	73.3	27.2-120		%REC	256350	1	02/23/2018 21:51	YH
Surr: 4-Terphenyl-d14	98.7	47.1-136		%REC	256350	1	02/23/2018 21:51	YH
Surr: Nitrobenzene-d5	81.5	40.7-119		%REC	256350	1	02/23/2018 21:51	YH

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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	DUP-1-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018
Lab ID:	1802K34-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	58.4	18.1-120		%REC	256350	1	02/23/2018 21:51	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256592	1	03/01/2018 03:54	AS
ION SCAN SW9056A								
Nitrate	BRL	2.5		mg/L	R363962	10	02/22/2018 13:46	MP
Sulfate	BRL	10		mg/L	R363962	10	02/22/2018 13:46	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	18	4.0		ug/L	256463	1	02/26/2018 15:28	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363915	1	02/22/2018 10:00	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	BRL	0.010		mg/L	256541	1	02/27/2018 16:00	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256423	1	02/27/2018 17:47	JR
Arsenic	BRL	0.0500		mg/L	256423	1	02/27/2018 17:47	JR
Barium	0.103	0.0200		mg/L	256423	1	02/27/2018 17:47	JR
Beryllium	BRL	0.0100		mg/L	256423	1	02/27/2018 17:47	JR
Cadmium	BRL	0.0050		mg/L	256423	1	02/27/2018 17:47	JR
Chromium	0.0220	0.0100		mg/L	256423	1	02/27/2018 17:47	JR
Copper	0.0321	0.0100		mg/L	256423	1	02/27/2018 17:47	JR
Iron	BRL	0.100		mg/L	256423	1	02/27/2018 17:47	JR
Lead	BRL	0.0100		mg/L	256423	1	02/27/2018 17:47	JR
Nickel	0.0419	0.0200		mg/L	256423	1	02/27/2018 17:47	JR
Zinc	BRL	0.0200		mg/L	256423	1	02/27/2018 17:47	JR

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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-7-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018
Lab ID:	1802K34-003	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256437	1	02/23/2018 14:33	NP
Carbon disulfide	BRL	5.0		ug/L	256437	1	02/23/2018 14:33	NP
Ethylbenzene	BRL	5.0		ug/L	256437	1	02/23/2018 14:33	NP
Toluene	BRL	5.0		ug/L	256437	1	02/23/2018 14:33	NP
Xylenes, Total	BRL	5.0		ug/L	256437	1	02/23/2018 14:33	NP
Surr: 4-Bromofluorobenzene	97.7	68-127		%REC	256437	1	02/23/2018 14:33	NP
Surr: Dibromofluoromethane	104	84.4-122		%REC	256437	1	02/23/2018 14:33	NP
Surr: Toluene-d8	102	80.1-116		%REC	256437	1	02/23/2018 14:33	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

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

March 8, 2018

Mirzeta Kararic
Analytical Environmental Services, Inc.
3785 Presidential Parkway
Suite 111
Atlanta, GA 30340

RE: **1802K34**

Pace Workorder: 25815

Dear Mirzeta Kararic:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, February 28, 2018. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Ruth Welsh 03/08/2018
Ruth.Welsh@pacelabs.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email PAESfeedback@pacelabs.com.

Total Number of Pages 11

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water
Accreditor:	West Virginia Department of Environmental Protection, Division of Water and Waste Management
Accreditation ID:	395
Scope:	Non-Potable Water
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	State of Virginia
Accreditation ID:	460201
Scope:	Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

Pace Analytical Energy Services LLC
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SAMPLE SUMMARY

Workorder: 25815 1802K34

Lab ID	Sample ID	Matrix	Date Collected	Date Received
258150001	MW-304D-20180221-01	Water	2/21/2018 15:28	2/28/2018 11:45
258150002	DUP-1-20180221-01	Water	2/21/2018 00:00	2/28/2018 11:45

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ANALYTICAL RESULTS

Workorder: 25815 1802K34

Lab ID: **258150001** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **MW-304D-20180221-01** Date Collected: 2/21/2018 15:28

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**28**	mg/l	5.0	0.32	1	3/3/2018 09:09	TD	n
Oxygen	**4.0**	mg/l	0.50	0.12	1	3/3/2018 09:09	TD	n
Nitrogen	**17**	mg/l	2.0	0.34	1	3/3/2018 09:09	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/3/2018 09:09	TD	n

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ANALYTICAL RESULTS

Workorder: 25815 1802K34

Lab ID: **258150002** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **DUP-1-20180221-01** Date Collected: 2/21/2018 00:00

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**<5.0**	mg/l	5.0	0.32	1	3/3/2018 09:23	TD	n
Oxygen	**8.3**	mg/l	0.50	0.12	1	3/3/2018 09:23	TD	n
Nitrogen	**16**	mg/l	2.0	0.34	1	3/3/2018 09:23	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/3/2018 09:23	TD	n

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 25815 1802K34

DEFINITIONS/QUALIFIERS

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

Pace Analytical Energy Services LLC
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Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

QUALITY CONTROL DATA

Workorder: 25815 1802K34

QC Batch: DISG/6692 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 258150001, 258150002

METHOD BLANK: 54004

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Carbon Dioxide	mg/l	<5.0	5.0	n
Oxygen	mg/l	<0.50	0.50	n
Nitrogen	mg/l	<2.0	2.0	n
Carbon Monoxide	mg/l	<1.0	1.0	n

LABORATORY CONTROL SAMPLE & LCSD: 54006 54008

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Carbon Dioxide	mg/l	120	130	130	111	108	80-120	2.5	20	n
Oxygen	mg/l	11	12	11	103	101	80-120	2.4	20	n
Nitrogen	mg/l	140	120	120	91	90	80-120	0.61	20	n
Carbon Monoxide	mg/l	2	2.0	2.0	101	98	80-120	2.2	20	n

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Fax: (412) 826-3433

QUALITY CONTROL DATA QUALIFIERS

Workorder: 25815 1802K34

QUALITY CONTROL PARAMETER QUALIFIERS

n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 25815 1802K34

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
258150001	MW-304D-20180221-01			AM20GAX	DISG/6692
258150002	DUP-1-20180221-01			AM20GAX	DISG/6692

3

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
AES Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

25815

CHAIN OF CUSTODY

Work Order: _____

Date: _____ Page _____ of _____

COMPANY: ↓	ADDRESS: ↓
PHONE:	EMAIL:
SAMPLED BY:	SIGNATURE:

ANALYSIS REQUESTED: O2, H2, CO, CO2

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)	REMARKS	Number of Containers
1	MW-304D-20180221-01	2/21/18	15:28	X		GW	X		
2	DUP-1-20180221-01	-11-	—	X		GW	X		
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Andrea Stephens	2/27/18 5:00 pm	1. @ 2/27 Les	2.28.18 1145
2.		2.	
3.		3.	

PROJECT INFORMATION

PROJECT NAME: 1802K34

PROJECT #:

SITE ADDRESS:

SEND REPORT TO: MKARAKO@AESATLANTA.COM

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: _____ PO#: _____

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT: / / VIA:

IN: / / VIA:

client FedEx UPS US mail courier Greyhound

other: _____

RECEIPT

Total # of Containers

Turnaround Time (TAT) Request

- [X] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush (auth req.)
- [ ] Other _____

STATE PROGRAM (if any): _____

E-mail? ☐ Fax? ☐

DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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

Cooler Receipt Form

Client Name: AES Project: 1802K34 Lab Work Order: 25815

A. Shipping/Container Information (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other: ___ Air bill Present: (Yes) No

Tracking Number: 7249 3168 6734

Custody Seal on Cooler/Box Present: Yes (No) Seals Intact: Yes No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam Other: ___

Type of Ice: (Wet) Blue None Ice Intact: (Yes) Melted

Cooler Temperature: 1°C Radiation Screened: Yes (No) Chain of Custody Present: (Yes) No

Comments: ___

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC			✓	
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected	✓			
Sufficient volume provided	✓			
PAES containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	
Headspace present?	✓			

Comments: ___

Cooler contents examined/received by: ___ Date: 2.28.18

Project Manager Review: ___ Date: 2/28/18

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **ERM-Southeast** AES Work Order Number: **1802H80**

2. Carrier: FedEx ■ UPS ☐ USPS ☐ Client ☐ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	○	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	○	○		
5.	Custody seals intact on shipping container?	○	○	○		
6.	Temperature blanks present?	○	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	○	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	○	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	○	○	○		
10.	Sampler name and/or signature on COC?	○	○	○		
11.	Were all samples received within holding time?	○	○	○		
12.	TAT marked on the COC?	○	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 2.3 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). TD 2/20/18

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	○	○	○		
17.	Custody seals present on sample containers?	○	○	○		
18.	Custody seals intact on sample containers?	○	○	○		
19.	Do sample container labels match the COC?	○	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	○	○	○		
21.	Were all of the samples listed on the COC received?	○	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	○	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	○	○	○		
24.	Were samples received in appropriate containers?	○	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	○	○	○		
26.	Were trip blanks submitted?	○	○	○	listed on COC ■ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). MDP 2/20/18

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	○	○	○		
29.	Containers meet preservation guidelines?	○	○	○		
30.	Was pH adjusted at Sample Receipt?	○	○	○		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). MDP 2/20/18

Checklist 6.9.17 Rev 2

Locked

Analytical Environmental Services, Inc

Date: 13-Mar-18

Client: ERM-Southeast
Project Name: AGLC Macon
Lab Order: 1802K34

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802K34-001A	MW-304D-20180221-01	2/21/2018 3:28:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/23/2018 11:42:00 AM	02/23/2018
1802K34-001B	MW-304D-20180221-01	2/21/2018 3:28:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/23/2018 11:00:00 AM	02/26/2018
1802K34-001B	MW-304D-20180221-01	2/21/2018 3:28:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/23/2018 9:00:00 AM	02/23/2018
1802K34-001D	MW-304D-20180221-01	2/21/2018 3:28:00PM	Groundwater	GC Analysis of Gaseous Samples		2/26/2018 12:39:32 PM	02/26/2018
1802K34-001E	MW-304D-20180221-01	2/21/2018 3:28:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00 AM	02/27/2018
1802K34-001E	MW-304D-20180221-01	2/21/2018 3:28:00PM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00 PM	03/01/2018
1802K34-001F	MW-304D-20180221-01	2/21/2018 3:28:00PM	Groundwater	Cyanide		2/27/2018 2:30:00 PM	02/27/2018
1802K34-001G	MW-304D-20180221-01	2/21/2018 3:28:00PM	Groundwater	Ferrous Iron			02/22/2018
1802K34-001H	MW-304D-20180221-01	2/21/2018 3:28:00PM	Groundwater	Sulfide by SW9030/9034		2/28/2018 9:00:00 AM	02/28/2018
1802K34-001I	MW-304D-20180221-01	2/21/2018 3:28:00PM	Groundwater	ION SCAN			02/22/2018
1802K34-002A	DUP-1-20180221-01	2/21/2018 12:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		2/23/2018 11:42:00 AM	02/23/2018
1802K34-002B	DUP-1-20180221-01	2/21/2018 12:00:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/23/2018 11:00:00 AM	02/26/2018
1802K34-002B	DUP-1-20180221-01	2/21/2018 12:00:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/23/2018 9:00:00 AM	02/23/2018
1802K34-002D	DUP-1-20180221-01	2/21/2018 12:00:00AM	Groundwater	GC Analysis of Gaseous Samples		2/26/2018 12:39:32 PM	02/26/2018
1802K34-002E	DUP-1-20180221-01	2/21/2018 12:00:00AM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00 AM	02/27/2018
1802K34-002E	DUP-1-20180221-01	2/21/2018 12:00:00AM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00 PM	03/01/2018
1802K34-002F	DUP-1-20180221-01	2/21/2018 12:00:00AM	Groundwater	Cyanide		2/27/2018 2:30:00 PM	02/27/2018
1802K34-002G	DUP-1-20180221-01	2/21/2018 12:00:00AM	Groundwater	Ferrous Iron			02/22/2018
1802K34-002H	DUP-1-20180221-01	2/21/2018 12:00:00AM	Groundwater	Sulfide by SW9030/9034		2/28/2018 9:00:00 AM	02/28/2018
1802K34-002I	DUP-1-20180221-01	2/21/2018 12:00:00AM	Groundwater	ION SCAN			02/22/2018
1802K34-003A	TB-7-20180221-01	2/21/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		2/23/2018 11:42:00 AM	02/23/2018

Client: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K34

ANALYTICAL QC SUMMARY REPORT

BatchID: 256350

Sample ID: **MB-256350**	Client ID:		Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363818**
SampleType: **MBLK**	TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**		BatchID: **256350**	Analysis Date: **02/23/2018**	Seq No: **8041779**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,4-Dimethylphenol	BRL	10									
2-Methylphenol	BRL	10									
3,4-Methylphenol	BRL	10									
Phenol	BRL	10									
Surr: 2,4,6-Tribromophenol	99.05	0	100.0		99.0	51.4	138				
Surr: 2-Fluorobiphenyl	38.78	0	50.00		77.6	44.6	119				
Surr: 2-Fluorophenol	58.62	0	100.0		58.6	27.2	120				
Surr: 4-Terphenyl-d14	54.36	0	50.00		109	47.1	136				
Surr: Nitrobenzene-d5	43.38	0	50.00		86.8	40.7	119				
Surr: Phenol-d5	39.78	0	100.0		39.8	18.1	120				

Sample ID: **LCS-256350**	Client ID:		Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363818**
SampleType: **LCS**	TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**		BatchID: **256350**	Analysis Date: **02/23/2018**	Seq No: **8041780**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	37.20	10	100.0		37.2	26.4	120				
Surr: 2,4,6-Tribromophenol	102.6	0	100.0		103	51.4	138				
Surr: 2-Fluorobiphenyl	43.66	0	50.00		87.3	44.6	119				
Surr: 2-Fluorophenol	56.75	0	100.0		56.8	27.2	120				
Surr: 4-Terphenyl-d14	58.04	0	50.00		116	47.1	136				
Surr: Nitrobenzene-d5	44.87	0	50.00		89.7	40.7	119				
Surr: Phenol-d5	37.43	0	100.0		37.4	18.1	120				

Sample ID: **1802K30-002BMS**	Client ID:		Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363818**
SampleType: **MS**	TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**		BatchID: **256350**	Analysis Date: **02/24/2018**	Seq No: **8041817**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	48.59	10	100.0		48.6	31.5	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K34

ANALYTICAL QC SUMMARY REPORT

BatchID: 256350

Sample ID: **1802K30-002BMS** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363818**
SampleType: **MS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256350** Analysis Date: **02/24/2018** Seq No: **8041817**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 2,4,6-Tribromophenol	96.09	0	100.0		96.1	51.4	138				
Surr: 2-Fluorobiphenyl	41.02	0	50.00		82.0	44.6	119				
Surr: 2-Fluorophenol	63.41	0	100.0		63.4	27.2	120				
Surr: 4-Terphenyl-d14	54.12	0	50.00		108	47.1	136				
Surr: Nitrobenzene-d5	37.97	0	50.00		75.9	40.7	119				
Surr: Phenol-d5	52.75	0	100.0		52.8	18.1	120				

Sample ID: **1802K30-002BMSD** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363818**
SampleType: **MSD** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256350** Analysis Date: **02/24/2018** Seq No: **8041818**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	51.59	10	100.0		51.6	31.5	120	48.59	5.99	28.5	
Surr: 2,4,6-Tribromophenol	91.81	0	100.0		91.8	51.4	138	96.09	0	0	
Surr: 2-Fluorobiphenyl	40.08	0	50.00		80.2	44.6	119	41.02	0	0	
Surr: 2-Fluorophenol	65.71	0	100.0		65.7	27.2	120	63.41	0	0	
Surr: 4-Terphenyl-d14	51.75	0	50.00		104	47.1	136	54.12	0	0	
Surr: Nitrobenzene-d5	38.90	0	50.00		77.8	40.7	119	37.97	0	0	
Surr: Phenol-d5	52.94	0	100.0		52.9	18.1	120	52.75	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K34

ANALYTICAL QC SUMMARY REPORT

BatchID: 256355

Sample ID: **MB-256355** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363819**
SampleType: **MBLK** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256355** Analysis Date: **02/26/2018** Seq No: **8042065**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	BRL	0.50									
Acenaphthylene	BRL	1.0									
Anthracene	BRL	0.050									
Benz(a)anthracene	BRL	0.050									
Benzo(a)pyrene	BRL	0.050									
Benzo(b)fluoranthene	BRL	0.10									
Benzo(g,h,i)perylene	BRL	0.10									
Benzo(k)fluoranthene	BRL	0.050									
Chrysene	BRL	0.050									
Dibenz(a,h)anthracene	BRL	0.10									
Fluoranthene	BRL	0.10									
Fluorene	BRL	0.10									
Indeno(1,2,3-cd)pyrene	BRL	0.050									
Naphthalene	BRL	0.50									
Phenanthrene	BRL	0.050									
Pyrene	BRL	0.050									
Surr: 4-Terphenyl-d14	1.800	0	2.000		90.0	59.9	128				

Sample ID: **LCS-256355** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363819**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256355** Analysis Date: **02/26/2018** Seq No: **8042066**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.715	0.50	2.000		85.7	64.7	120				
Acenaphthylene	1.751	1.0	2.000		87.5	63.2	120				
Anthracene	1.785	0.050	2.000		89.2	69.3	125				
Benz(a)anthracene	1.972	0.050	2.000		98.6	71.1	141				
Benzo(a)pyrene	1.993	0.050	2.000		99.7	67.2	131				
Benzo(b)fluoranthene	1.888	0.10	2.000		94.4	66.1	134				

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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K34

ANALYTICAL QC SUMMARY REPORT

BatchID: 256355

Sample ID: **LCS-256355**	Client ID:		Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363819**
SampleType: **LCS**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**		BatchID: **256355**	Analysis Date: **02/26/2018**	Seq No: **8042066**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(g,h,i)perylene	1.568	0.10	2.000		78.4	66.1	128				
Benzo(k)fluoranthene	1.982	0.050	2.000		99.1	67.7	133				
Chrysene	2.163	0.050	2.000		108	71.3	137				
Dibenz(a,h)anthracene	1.442	0.10	2.000		72.1	59.7	125				
Fluoranthene	1.885	0.10	2.000		94.3	72.3	129				
Fluorene	1.736	0.10	2.000		86.8	69.2	120				
Indeno(1,2,3-cd)pyrene	1.585	0.050	2.000		79.2	66.4	127				
Naphthalene	1.466	0.50	2.000		73.3	56.8	120				
Phenanthrene	1.700	0.050	2.000		85.0	70.9	120				
Pyrene	2.159	0.050	2.000		108	68.4	138				
Surr: 4-Terphenyl-d14	2.000	0	2.000		100.0	59.9	128				

Sample ID: **1802K30-002BMS**	Client ID:		Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363819**
SampleType: **MS**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**		BatchID: **256355**	Analysis Date: **02/26/2018**	Seq No: **8044377**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.434	0.50	2.000		71.7	61.4	120				
Acenaphthylene	1.468	1.0	2.000		73.4	63.9	120				
Anthracene	1.460	0.050	2.000		73.0	65.3	120				
Benz(a)anthracene	1.637	0.050	2.000		81.8	76.7	124				
Benzo(a)pyrene	1.647	0.050	2.000		82.3	58.5	120				
Benzo(b)fluoranthene	1.469	0.10	2.000		73.4	52.6	121				
Benzo(g,h,i)perylene	1.297	0.10	2.000		64.9	44.2	120				
Benzo(k)fluoranthene	1.604	0.050	2.000		80.2	59	120				
Chrysene	1.785	0.050	2.000		89.2	65	122				
Dibenz(a,h)anthracene	1.183	0.10	2.000		59.2	38.2	120				
Fluoranthene	1.570	0.10	2.000		78.5	71.7	118				
Fluorene	1.465	0.10	2.000		73.3	65.6	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K34

ANALYTICAL QC SUMMARY REPORT

BatchID: 256355

Sample ID: **1802K30-002BMS** Client ID:
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**
Units: **ug/L** Prep Date: **02/23/2018** Run No: **363819**
BatchID: **256355** Analysis Date: **02/26/2018** Seq No: **8044377**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Indeno(1,2,3-cd)pyrene	1.261	0.050	2.000		63.0	46.6	120				
Naphthalene	1.316	0.50	2.000		65.8	57.3	120				
Phenanthrene	1.387	0.050	2.000		69.3	65.6	120				
Pyrene	1.776	0.050	2.000		88.8	69	121				
Surr: 4-Terphenyl-d14	1.659	0	2.000		83.0	59.9	128				

Sample ID: **1802K30-002BMSD** Client ID:
SampleType: **MSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**
Units: **ug/L** Prep Date: **02/23/2018** Run No: **363819**
BatchID: **256355** Analysis Date: **02/26/2018** Seq No: **8044378**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.709	0.50	2.000		85.5	61.4	120	1.434	17.5	24.4	
Acenaphthylene	1.734	1.0	2.000		86.7	63.9	120	1.468	16.6	27.9	
Anthracene	1.660	0.050	2.000		83.0	65.3	120	1.460	12.8	26.3	
Benz(a)anthracene	1.885	0.050	2.000		94.3	76.7	124	1.637	14.1	25	
Benzo(a)pyrene	1.889	0.050	2.000		94.5	58.5	120	1.647	13.7	23.5	
Benzo(b)fluoranthene	1.733	0.10	2.000		86.7	52.6	121	1.469	16.5	24	
Benzo(g,h,i)perylene	1.526	0.10	2.000		76.3	44.2	120	1.297	16.2	32.1	
Benzo(k)fluoranthene	1.853	0.050	2.000		92.7	59	120	1.604	14.4	19.6	
Chrysene	2.053	0.050	2.000		103	65	122	1.785	14.0	23	
Dibenz(a,h)anthracene	1.468	0.10	2.000		73.4	38.2	120	1.183	21.5	31.7	
Fluoranthene	1.846	0.10	2.000		92.3	71.7	118	1.570	16.2	23	
Fluorene	1.731	0.10	2.000		86.6	65.6	120	1.465	16.7	25	
Indeno(1,2,3-cd)pyrene	1.517	0.050	2.000		75.8	46.6	120	1.261	18.4	32.4	
Naphthalene	1.573	0.50	2.000		78.6	57.3	120	1.316	17.7	27.2	
Phenanthrene	1.644	0.050	2.000		82.2	65.6	120	1.387	17.0	23.5	
Pyrene	2.085	0.050	2.000		104	69	121	1.776	16.0	23.8	
Surr: 4-Terphenyl-d14	1.873	0	2.000		93.7	59.9	128	1.659	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K34

ANALYTICAL QC SUMMARY REPORT

BatchID: 256423

Sample ID: **MB-256423** Client ID: Units: **mg/L** Prep Date: **02/26/2018** Run No: **364064**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010D** BatchID: **256423** Analysis Date: **02/27/2018** Seq No: **8046178**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	0.0200									
Arsenic	BRL	0.0500									
Barium	BRL	0.0200									
Beryllium	BRL	0.0100									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Copper	BRL	0.0100									
Iron	BRL	0.100									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Zinc	BRL	0.0200									

Sample ID: **LCS-256423** Client ID: Units: **mg/L** Prep Date: **02/26/2018** Run No: **364064**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010D** BatchID: **256423** Analysis Date: **02/27/2018** Seq No: **8046179**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9497	0.0200	1.000		95.0	80	120				
Arsenic	0.9334	0.0500	1.000		93.3	80	120				
Barium	0.9502	0.0200	1.000		95.0	80	120				
Beryllium	0.9026	0.0100	1.000		90.3	80	120				
Cadmium	0.9369	0.0050	1.000		93.7	80	120				
Chromium	0.9127	0.0100	1.000		91.3	80	120				
Copper	0.9025	0.0100	1.000		90.3	80	120				
Iron	8.968	0.100	10.00		89.7	80	120				
Lead	0.9051	0.0100	1.000		90.5	80	120				
Nickel	0.9489	0.0200	1.000		94.9	80	120				
Zinc	0.9454	0.0200	1.000		94.5	80	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K34

ANALYTICAL QC SUMMARY REPORT

BatchID: 256423

Sample ID: **1802K30-002EMS** Client ID:
SampleType: **MS** TestCode: **METALS, TOTAL SW6010D**
Units: **mg/L** Prep Date: **02/26/2018** Run No: **364064**
BatchID: **256423** Analysis Date: **02/27/2018** Seq No: **8046181**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9333	0.0200	1.000		93.3	75	125				
Arsenic	0.9202	0.0500	1.000		92.0	75	125				
Barium	2.265	0.0200	1.000	1.383	88.2	75	125				
Beryllium	0.8801	0.0100	1.000		88.0	75	125				
Cadmium	0.9145	0.0050	1.000		91.4	75	125				
Chromium	0.8908	0.0100	1.000		89.1	75	125				
Copper	0.8816	0.0100	1.000		88.2	75	125				
Iron	15.89	0.100	10.00	7.610	82.8	75	125				
Lead	0.8637	0.0100	1.000		86.4	75	125				
Nickel	0.9026	0.0200	1.000	0.02962	87.3	75	125				
Zinc	0.9085	0.0200	1.000	0.009270	89.9	75	125				

Sample ID: **1802K30-002EMSD** Client ID:
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010D**
Units: **mg/L** Prep Date: **02/26/2018** Run No: **364064**
BatchID: **256423** Analysis Date: **02/27/2018** Seq No: **8046182**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9338	0.0200	1.000		93.4	75	125	0.9333	0.045	20	
Arsenic	0.9252	0.0500	1.000		92.5	75	125	0.9202	0.544	20	
Barium	2.251	0.0200	1.000	1.383	86.7	75	125	2.265	0.644	20	
Beryllium	0.8878	0.0100	1.000		88.8	75	125	0.8801	0.862	20	
Cadmium	0.9244	0.0050	1.000		92.4	75	125	0.9145	1.07	20	
Chromium	0.9010	0.0100	1.000		90.1	75	125	0.8908	1.13	20	
Copper	0.8944	0.0100	1.000		89.4	75	125	0.8816	1.44	20	
Iron	15.88	0.100	10.00	7.610	82.7	75	125	15.89	0.045	20	
Lead	0.8758	0.0100	1.000		87.6	75	125	0.8637	1.38	20	
Nickel	0.9143	0.0200	1.000	0.02962	88.5	75	125	0.9026	1.28	20	
Zinc	0.9228	0.0200	1.000	0.009270	91.4	75	125	0.9085	1.57	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K34

ANALYTICAL QC SUMMARY REPORT

BatchID: 256437

Sample ID: **MB-256437** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363806**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256437** Analysis Date: **02/23/2018** Seq No: **8041568**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	5.0									
Carbon disulfide	BRL	5.0									
Ethylbenzene	BRL	5.0									
Toluene	BRL	5.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	48.87	0	50.00		97.7	68	127				
Surr: Dibromofluoromethane	53.88	0	50.00		108	84.4	122				
Surr: Toluene-d8	52.64	0	50.00		105	80.1	116				

Sample ID: **LCS-256437** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363806**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256437** Analysis Date: **02/23/2018** Seq No: **8041567**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	39.54	5.0	50.00		79.1	73.7	126				
Toluene	39.86	5.0	50.00		79.7	76.8	125				
Surr: 4-Bromofluorobenzene	48.97	0	50.00		97.9	68	127				
Surr: Dibromofluoromethane	52.50	0	50.00		105	84.4	122				
Surr: Toluene-d8	50.96	0	50.00		102	80.1	116				

Sample ID: **1802H80-001AMS** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363806**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256437** Analysis Date: **02/23/2018** Seq No: **8041574**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	58.11	5.0	50.00	4.900	106	66.1	137				
Toluene	54.56	5.0	50.00		109	63.8	141				
Surr: 4-Bromofluorobenzene	48.40	0	50.00		96.8	68	127				
Surr: Dibromofluoromethane	51.55	0	50.00		103	84.4	122				
Surr: Toluene-d8	51.30	0	50.00		103	80.1	116				

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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K34

ANALYTICAL QC SUMMARY REPORT

BatchID: 256437

Sample ID: **1802H80-001AMSD** Client ID:
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **ug/L** Prep Date: **02/23/2018** Run No: **363806**
BatchID: **256437** Analysis Date: **02/23/2018** Seq No: **8041576**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	58.30	5.0	50.00	4.900	107	66.1	137	58.11	0.326	20	
Toluene	55.64	5.0	50.00		111	63.8	141	54.56	1.96	20	
Surr: 4-Bromofluorobenzene	48.53	0	50.00		97.1	68	127	48.40	0	0	
Surr: Dibromofluoromethane	51.55	0	50.00		103	84.4	122	51.55	0	0	
Surr: Toluene-d8	51.78	0	50.00		104	80.1	116	51.30	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K34

ANALYTICAL QC SUMMARY REPORT

BatchID: 256463

Sample ID: **MB-256463**	Client ID:				Units: **ug/L**		Prep Date: **02/26/2018**		Run No: **363983**	
SampleType: **MBLK**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256463**		Analysis Date: **02/26/2018**		Seq No: **8044004**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	BRL	4.0									

Sample ID: **LCS-256463**	Client ID:				Units: **ug/L**		Prep Date: **02/26/2018**		Run No: **363983**	
SampleType: **LCS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256463**		Analysis Date: **02/26/2018**		Seq No: **8044005**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	110.6	4.0	200.0		55.3	45.1	115				

Sample ID: **LCSD-256463**	Client ID:				Units: **ug/L**		Prep Date: **02/26/2018**		Run No: **363983**	
SampleType: **LCSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256463**		Analysis Date: **02/26/2018**		Seq No: **8044006**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	104.7	4.0	200.0		52.3	45.1	115	110.6	5.47	20	

Sample ID: **1802K30-002DMS**	Client ID:				Units: **ug/L**		Prep Date: **02/26/2018**		Run No: **363983**	
SampleType: **MS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256463**		Analysis Date: **02/26/2018**		Seq No: **8044010**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	140.4	4.0	200.0	40.40	50.0	42	115				

Sample ID: **1802K30-002DMSD**	Client ID:				Units: **ug/L**		Prep Date: **02/26/2018**		Run No: **363983**	
SampleType: **MSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256463**		Analysis Date: **02/26/2018**		Seq No: **8044011**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	135.5	4.0	200.0	40.40	47.5	42	115	140.4	3.55	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K34

ANALYTICAL QC SUMMARY REPORT

BatchID: 256541

Sample ID: **MB-256541**	Client ID:				Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364052**
SampleType: **MBLK**	TestCode: **Cyanide SW9014**				BatchID: **256541**		Analysis Date: **02/27/2018**		Seq No: **8045709**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	BRL	0.010									

Sample ID: **LCS-256541**	Client ID:				Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364052**
SampleType: **LCS**	TestCode: **Cyanide SW9014**				BatchID: **256541**		Analysis Date: **02/27/2018**		Seq No: **8045710**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2690	0.010	0.2500		108	85	115				

Sample ID: **1802K33-001FMS**	Client ID:				Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364052**
SampleType: **MS**	TestCode: **Cyanide SW9014**				BatchID: **256541**		Analysis Date: **02/27/2018**		Seq No: **8045742**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.3220	0.010	0.2500	0.05950	105	70	130				

Sample ID: **1802K33-001FMSD**	Client ID:				Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364052**
SampleType: **MSD**	TestCode: **Cyanide SW9014**				BatchID: **256541**		Analysis Date: **02/27/2018**		Seq No: **8045743**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.3240	0.010	0.2500	0.05950	106	70	130	0.3220	0.619	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K34

ANALYTICAL QC SUMMARY REPORT

BatchID: 256591

Sample ID: **MB-256591**	Client ID:				Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364097**
SampleType: **MBLK**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **256591**		Analysis Date: **02/27/2018**		Seq No: **8047123**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	2.00									

Sample ID: **LCS-256591**	Client ID:				Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364097**
SampleType: **LCS**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **256591**		Analysis Date: **02/27/2018**		Seq No: **8047124**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	296.0	2.00	296.0		100	70	130				

Sample ID: **1802K33-001HMS**	Client ID:				Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364097**
SampleType: **MS**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **256591**		Analysis Date: **02/27/2018**		Seq No: **8047146**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	15.40	2.00	14.80		104	62.8	125				

Sample ID: **1802K33-001HMSD**	Client ID:				Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364097**
SampleType: **MSD**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **256591**		Analysis Date: **02/27/2018**		Seq No: **8047147**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	15.60	2.00	14.80		105	62.8	125	15.40	1.29	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K34

ANALYTICAL QC SUMMARY REPORT

BatchID: 256592

Sample ID: **MB-256592**	Client ID:				Units: **mg/L**		Prep Date: **02/28/2018**		Run No: **364227**
SampleType: **MBLK**	TestCode: **Mercury, Total SW7470A**				BatchID: **256592**		Analysis Date: **03/01/2018**		Seq No: **8050447**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020									

Sample ID: **LCS-256592**	Client ID:				Units: **mg/L**		Prep Date: **02/28/2018**		Run No: **364227**
SampleType: **LCS**	TestCode: **Mercury, Total SW7470A**				BatchID: **256592**		Analysis Date: **03/01/2018**		Seq No: **8050448**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003896	0.00020	0.0040		97.4	80	120				

Sample ID: **1802K33-002EMS**	Client ID:				Units: **mg/L**		Prep Date: **02/28/2018**		Run No: **364227**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**				BatchID: **256592**		Analysis Date: **03/01/2018**		Seq No: **8050450**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003737	0.00020	0.0040		93.4	70	130				

Sample ID: **1802K33-002EMSD**	Client ID:				Units: **mg/L**		Prep Date: **02/28/2018**		Run No: **364227**
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**				BatchID: **256592**		Analysis Date: **03/01/2018**		Seq No: **8050451**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004099	0.00020	0.0040		102	70	130	0.003737	9.24	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K34

ANALYTICAL QC SUMMARY REPORT

BatchID: R363915

Sample ID: **MB-R363915**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **MBLK**	TestCode: **Ferrous Iron**					BatchID: **R363915**		Analysis Date: **02/21/2018**		Seq No: **8042203**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R363915**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **LCS**	TestCode: **Ferrous Iron**					BatchID: **R363915**		Analysis Date: **02/21/2018**		Seq No: **8042204**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5060	0.100	0.5000		101	85	115				

Sample ID: **1802J52-001IMS**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **MS**	TestCode: **Ferrous Iron**					BatchID: **R363915**		Analysis Date: **02/21/2018**		Seq No: **8042224**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5170	0.100	0.5000		103	80	120				

Sample ID: **1802K30-002GMS**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **MS**	TestCode: **Ferrous Iron**					BatchID: **R363915**		Analysis Date: **02/22/2018**		Seq No: **8042229**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	9.820	1.00	5.000	4.480	107	80	120				

Sample ID: **1802J52-001IMSD**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363915**	
SampleType: **MSD**	TestCode: **Ferrous Iron**					BatchID: **R363915**		Analysis Date: **02/21/2018**		Seq No: **8042226**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.4970	0.100	0.5000		99.4	80	120	0.5170	3.94	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K34

ANALYTICAL QC SUMMARY REPORT

BatchID: R363915

Sample ID: **1802K30-002GMSD** Client ID:
SampleType: **MSD** TestCode: **Ferrous Iron**
Units: **mg/L** Prep Date: Run No: **363915**
BatchID: **R363915** Analysis Date: **02/22/2018** Seq No: **8042231**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	9.950	1.00	5.000	4.480	109	80	120	9.820	1.32	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K34

ANALYTICAL QC SUMMARY REPORT

BatchID: R363962

Sample ID: **MB-R363962**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363962**	
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**				BatchID: **R363962**		Analysis Date: **02/22/2018**		Seq No: **8043487**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R363962**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363962**	
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**				BatchID: **R363962**		Analysis Date: **02/22/2018**		Seq No: **8043486**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.868	0.25	5.000		97.4	90	110				
Sulfate	24.53	1.0	25.00		98.1	90	110				

Sample ID: **1802K30-002IMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363962**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R363962**		Analysis Date: **02/23/2018**		Seq No: **8043519**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	48.05	2.5	50.00		96.1	90	110				
Sulfate	229.5	10	250.0	3.740	90.3	90	110				

Sample ID: **1802K33-001IMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363962**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R363962**		Analysis Date: **02/23/2018**		Seq No: **8043513**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	49.21	2.5	50.00	0.5841	97.2	90	110				
Sulfate	454.8	10	250.0	315.9	55.5	90	110				S

Sample ID: **1802K33-001IMSD**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363962**	
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**				BatchID: **R363962**		Analysis Date: **02/23/2018**		Seq No: **8043514**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	49.77	2.5	50.00	0.5841	98.4	90	110	49.21	1.14	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K34

ANALYTICAL QC SUMMARY REPORT

BatchID: R363962

Sample ID: **1802K33-001IMSD** Client ID:
SampleType: **MSD** TestCode: **ION SCAN SW9056A**
Units: **mg/L** Prep Date: Run No: **363962**
BatchID: **R363962** Analysis Date: **02/23/2018** Seq No: **8043514**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	450.5	10	250.0	315.9	53.8	90	110	454.8	0.947	20	S

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.

March 14, 2018

Adria Reimer
ERM-Southeast

3200 Windy Hill Rd
Atlanta GA 30339

RE: AGLC Macon

Dear Adria Reimer: Order No: 1802K99

Analytical Environmental Services, Inc. received 19 samples on 2/22/2018 3:17:00 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's accreditations are as follows:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.
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.

Sincerely,

Mirzeta Kararic

Mirzeta Kararic

Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
AES Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1802K99

Date: 2/22/18 Page 1 of 2

COMPANY: ERM

ADDRESS: 3200 WINDY HILL RD SE SUITE 1500W ATLANTA, GA 30339

PHONE: (678) 486-2700

EMAIL: adria.romer@erm.com

SAMPLED BY: HANNAH BEAUCH, TAYLOR PAYNE, ANDREAS SHOPEDITS, ELIZABETH GANT

SIGNATURE:

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	SVOC	VOC	Dissolved gases	Methane	Total cyanide	sulfide	Total Metals + mercury	Nitrate / Sulfate	Ferrous iron					REMARKS	Number of Containers
							PRESERVATION (see codes)														
							NA	H+I	O	H+I	S+I	S/M+I	N+I	I	I						
1	MW-205-20180221-01	2/21/18	15:30	X		GW	2	2	2	2	1	1	1	1	1					O = benzalkonium chloride S+I = Sodium hydroxide Zn = Zinc acetate	15
2	MW-12IR-20180222-01	2/22/18	08:55																		
3	MW-12R-20180222-01	"	10:15																		
4	MW-301D-20180222-01	"	09:50																		
5	MW-207D-20180222-01	"	09:40																		
6	AMW-2-20180222-01	"	10:15																		
7	MW-400-20180222-01	"	10:40																		
8	MW-302DD-20180222-01	"	12:00																		
9	MW-102-20180222-01	"	12:10																		
10	DUP-3-20180222-01	"	—																		
11	DUP-4-20180222-01	"	—																		
12	MW-204D-20180222-01	"	11:45																		
13	MW-103-20180222-01	"	12:35																		
14	TB-1-20180222-01	NA	—			W		2													2

ANALYSIS REQUESTED

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1.	2/22/2018 15:10	1. Monique R	2/22/18 3:17pm
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT: / / VIA:

IN: / / VIA:

(client) FedEx UPS US mail courier Greyhound

other: _____

PROJECT INFORMATION

PROJECT NAME: AGL MACON

PROJECT #: 0366660

SITE ADDRESS: 137 MULBERRY ST MACON, GA

SEND REPORT TO: adria.romer@erm.com

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: _____ PO#: _____

RECEIPT

Total # of Containers: 171

Turnaround Time (TAT) Request

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

STATE PROGRAM (if any): GA

E-mail? [x] Fax? [ ]

DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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.
3080 Presidential Drive Atlanta, GA 30340-3704
AES Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1802K99

Date: 2/22/18 Page 2 of 2

COMPANY: ERM	ADDRESS: 3200 WINDY HILL RD SE SUITE 1500W ATLANTA, GA 30339
PHONE: (678) 486-2700	EMAIL: adrian.reimer@erm.com
SAMPLED BY: NA	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	GRAB	COMPOSITE	MATRIX (see codes)	VOC	PRESERVATION (see codes) H+I	REMARKS	Number of Containers
1	TB-2 - 20180222-01	NA	—			W	2			2
2	TB-3 - 20180222-01	-11-	—							2
3	TB-4 - 20180222-01	-11-	—							2
4	TB-5 - 20180222-01	-11-	—							2
5	TB-6 - 20180222-01	-11-	—							2
6										
7										
8										
9										
10										
11										
12										
13										
14										

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1.	2/22/18 15:10	1 MONIQUE A.	2/22/18 3:17pm
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:
6 coolers submitted.

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client FedEx UPS US mail courier Greyhound
other: _____

PROJECT INFORMATION
PROJECT NAME: AGL MACON
PROJECT #: 0366660
SITE ADDRESS: 137 MULBERRY RD MACON GA
SEND REPORT TO: adrian.reimer@erm.com
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers: 10

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

STATE PROGRAM (if any): GA
E-mail? [x] Fax? [ ]
DATA PACKAGE: I ○ II ○ III ○ IV ○

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

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

Client: ERM-Southeast
Project: AGLC Macon
Lab ID: 1802K99

Case Narrative

Sample Receiving Nonconformance:

1802K99-0014, -015, -016, -017, -018 and 019 were changed to a collection date/time of 02-22-18@00:01 at the request of Andrea Brazell via email 02-27-18.

1802K99-011 was updated to a collection date of 02-22-18 at the request of Andrea Brazell via email 02-27-18

Ion Scan Analysis by Method 9056A:

Samples 1802K99-010I and -011I were extracted and/or analyzed outside holding time of 48 hours for Nitrate due to no collection time provided.

Ferrous Iron by SM3500Fe-B:

Method 3500Fe-B as listed in Standard Methods for the Examination of Water and Wastewater 22nd Edition is applicable for analyzing Ferrous Iron in the field. Samples were analyzed in the laboratory which is a deviation from the method.

Analytical Environmental Services, Inc **Date:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-205-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018 3:30:00 PM
Lab ID:	1802K99-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	31	5.0		ug/L	256558	1	02/27/2018 20:21	NP
Carbon disulfide	BRL	5.0		ug/L	256558	1	02/27/2018 20:21	NP
Ethylbenzene	34	5.0		ug/L	256558	1	02/27/2018 20:21	NP
Toluene	BRL	5.0		ug/L	256558	1	02/27/2018 20:21	NP
Xylenes, Total	28	5.0		ug/L	256558	1	02/27/2018 20:21	NP
Surr: 4-Bromofluorobenzene	93.7	68-127		%REC	256558	1	02/27/2018 20:21	NP
Surr: Dibromofluoromethane	104	84.4-122		%REC	256558	1	02/27/2018 20:21	NP
Surr: Toluene-d8	101	80.1-116		%REC	256558	1	02/27/2018 20:21	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256591	1	02/28/2018 11:20	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	38	5.0		ug/L	256355	10	02/28/2018 12:05	YH
Acenaphthylene	2.5	1.0		ug/L	256355	1	02/26/2018 18:01	YH
Acenaphthene	32	5.0		ug/L	256355	10	02/28/2018 12:05	YH
Fluorene	13	1.0		ug/L	256355	10	02/28/2018 12:05	YH
Phenanthrene	3.7	0.050		ug/L	256355	1	02/26/2018 18:01	YH
Anthracene	0.97	0.050		ug/L	256355	1	02/26/2018 18:01	YH
Fluoranthene	2.0	0.10		ug/L	256355	1	02/26/2018 18:01	YH
Pyrene	2.7	0.050		ug/L	256355	1	02/26/2018 18:01	YH
Benz(a)anthracene	0.15	0.050		ug/L	256355	1	02/26/2018 18:01	YH
Chrysene	0.20	0.050		ug/L	256355	1	02/26/2018 18:01	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 18:01	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256355	1	02/26/2018 18:01	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 18:01	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 18:01	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256355	1	02/26/2018 18:01	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256355	1	02/26/2018 18:01	YH
Surr: 4-Terphenyl-d14	112	59.9-128		%REC	256355	1	02/26/2018 18:01	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256350	1	02/23/2018 22:17	YH
2-Methylphenol	BRL	10		ug/L	256350	1	02/23/2018 22:17	YH
3,4-Methylphenol	BRL	10		ug/L	256350	1	02/23/2018 22:17	YH
Phenol	BRL	10		ug/L	256350	1	02/23/2018 22:17	YH
Surr: 2,4,6-Tribromophenol	90.4	51.4-138		%REC	256350	1	02/23/2018 22:17	YH
Surr: 2-Fluorobiphenyl	86.2	44.6-119		%REC	256350	1	02/23/2018 22:17	YH
Surr: 2-Fluorophenol	71.7	27.2-120		%REC	256350	1	02/23/2018 22:17	YH
Surr: 4-Terphenyl-d14	99.5	47.1-136		%REC	256350	1	02/23/2018 22:17	YH
Surr: Nitrobenzene-d5	83.5	40.7-119		%REC	256350	1	02/23/2018 22:17	YH

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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-205-20180221-01
Project Name:	AGLC Macon	**Collection Date:**	2/21/2018 3:30:00 PM
Lab ID:	1802K99-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	58	18.1-120		%REC	256350	1	02/23/2018 22:17	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256592	1	03/01/2018 03:58	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363962	1	02/23/2018 09:41	MP
Sulfate	14	1.0		mg/L	R363962	1	02/23/2018 09:41	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	130	4.0		ug/L	256463	1	02/26/2018 15:32	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	7.10	2.50		mg/L	R363918	25	02/22/2018 09:30	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	256541	1	02/27/2018 16:00	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256426	1	02/28/2018 15:16	JR
Arsenic	BRL	0.0500		mg/L	256426	1	02/28/2018 15:16	JR
Barium	0.0941	0.0200		mg/L	256426	1	02/28/2018 15:16	JR
Beryllium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:16	JR
Cadmium	BRL	0.0050		mg/L	256426	1	02/28/2018 15:16	JR
Chromium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:16	JR
Copper	BRL	0.0100		mg/L	256426	1	02/28/2018 15:16	JR
Iron	28.7	0.100		mg/L	256426	1	02/28/2018 15:16	JR
Lead	BRL	0.0100		mg/L	256426	1	02/28/2018 15:16	JR
Nickel	BRL	0.0200		mg/L	256426	1	02/28/2018 15:16	JR
Zinc	0.0203	0.0200		mg/L	256426	1	02/28/2018 15:16	JR

Qualifiers:

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- > 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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-12IR-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 8:55:00 AM
Lab ID:	1802K99-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256558	1	02/28/2018 05:12	NP
Carbon disulfide	BRL	5.0		ug/L	256558	1	02/28/2018 05:12	NP
Ethylbenzene	BRL	5.0		ug/L	256558	1	02/28/2018 05:12	NP
Toluene	BRL	5.0		ug/L	256558	1	02/28/2018 05:12	NP
Xylenes, Total	BRL	5.0		ug/L	256558	1	02/28/2018 05:12	NP
Surr: 4-Bromofluorobenzene	86.1	68-127		%REC	256558	1	02/28/2018 05:12	NP
Surr: Dibromofluoromethane	106	84.4-122		%REC	256558	1	02/28/2018 05:12	NP
Surr: Toluene-d8	103	80.1-116		%REC	256558	1	02/28/2018 05:12	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256591	1	02/28/2018 11:20	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	3.2	0.50		ug/L	256355	1	02/26/2018 18:28	YH
Acenaphthylene	2.2	1.0		ug/L	256355	1	02/26/2018 18:28	YH
Acenaphthene	3.8	0.50		ug/L	256355	1	02/26/2018 18:28	YH
Fluorene	6.6	0.10		ug/L	256355	1	02/26/2018 18:28	YH
Phenanthrene	0.19	0.050		ug/L	256355	1	02/26/2018 18:28	YH
Anthracene	0.20	0.050		ug/L	256355	1	02/26/2018 18:28	YH
Fluoranthene	4.9	0.10		ug/L	256355	1	02/26/2018 18:28	YH
Pyrene	8.5	0.050		ug/L	256355	1	02/26/2018 18:28	YH
Benz(a)anthracene	0.40	0.050		ug/L	256355	1	02/26/2018 18:28	YH
Chrysene	0.33	0.050		ug/L	256355	1	02/26/2018 18:28	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 18:28	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256355	1	02/26/2018 18:28	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 18:28	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 18:28	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256355	1	02/26/2018 18:28	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256355	1	02/26/2018 18:28	YH
Surr: 4-Terphenyl-d14	101	59.9-128		%REC	256355	1	02/26/2018 18:28	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256391	1	02/26/2018 17:04	YH
2-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 17:04	YH
3,4-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 17:04	YH
Phenol	BRL	10		ug/L	256391	1	02/26/2018 17:04	YH
Surr: 2,4,6-Tribromophenol	79.9	51.4-138		%REC	256391	1	02/26/2018 17:04	YH
Surr: 2-Fluorobiphenyl	81.8	44.6-119		%REC	256391	1	02/26/2018 17:04	YH
Surr: 2-Fluorophenol	58.9	27.2-120		%REC	256391	1	02/26/2018 17:04	YH
Surr: 4-Terphenyl-d14	108	47.1-136		%REC	256391	1	02/26/2018 17:04	YH
Surr: Nitrobenzene-d5	80.5	40.7-119		%REC	256391	1	02/26/2018 17:04	YH

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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-12IR-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 8:55:00 AM
Lab ID:	1802K99-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	53.7	18.1-120		%REC	256391	1	02/26/2018 17:04	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256592	1	03/01/2018 04:02	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363997	1	02/23/2018 21:25	MP
Sulfate	270	10		mg/L	R363997	10	02/23/2018 21:40	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	120	4.0		ug/L	256463	1	02/26/2018 15:37	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	7.88	0.500		mg/L	R363918	5	02/22/2018 09:30	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	0.035	0.010		mg/L	256541	1	02/27/2018 16:00	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256426	1	02/28/2018 15:19	JR
Arsenic	BRL	0.0500		mg/L	256426	1	02/28/2018 15:19	JR
Barium	0.0213	0.0200		mg/L	256426	1	02/28/2018 15:19	JR
Beryllium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:19	JR
Cadmium	BRL	0.0050		mg/L	256426	1	02/28/2018 15:19	JR
Chromium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:19	JR
Copper	BRL	0.0100		mg/L	256426	1	02/28/2018 15:19	JR
Iron	10.9	0.100		mg/L	256426	1	02/28/2018 15:19	JR
Lead	BRL	0.0100		mg/L	256426	1	02/28/2018 15:19	JR
Nickel	BRL	0.0200		mg/L	256426	1	02/28/2018 15:19	JR
Zinc	0.0463	0.0200		mg/L	256426	1	02/28/2018 15:19	JR

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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-12R-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 10:15:00 AM
Lab ID:	1802K99-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256558	1	02/28/2018 05:36	NP
Carbon disulfide	BRL	5.0		ug/L	256558	1	02/28/2018 05:36	NP
Ethylbenzene	BRL	5.0		ug/L	256558	1	02/28/2018 05:36	NP
Toluene	BRL	5.0		ug/L	256558	1	02/28/2018 05:36	NP
Xylenes, Total	BRL	5.0		ug/L	256558	1	02/28/2018 05:36	NP
Surr: 4-Bromofluorobenzene	85.4	68-127		%REC	256558	1	02/28/2018 05:36	NP
Surr: Dibromofluoromethane	105	84.4-122		%REC	256558	1	02/28/2018 05:36	NP
Surr: Toluene-d8	105	80.1-116		%REC	256558	1	02/28/2018 05:36	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256591	1	02/28/2018 11:20	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256355	1	02/26/2018 18:54	YH
Acenaphthylene	BRL	1.0		ug/L	256355	1	02/26/2018 18:54	YH
Acenaphthene	BRL	0.50		ug/L	256355	1	02/26/2018 18:54	YH
Fluorene	BRL	0.10		ug/L	256355	1	02/26/2018 18:54	YH
Phenanthrene	BRL	0.050		ug/L	256355	1	02/26/2018 18:54	YH
Anthracene	0.076	0.050		ug/L	256355	1	02/26/2018 18:54	YH
Fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 18:54	YH
Pyrene	0.29	0.050		ug/L	256355	1	02/26/2018 18:54	YH
Benz(a)anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 18:54	YH
Chrysene	BRL	0.050		ug/L	256355	1	02/26/2018 18:54	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 18:54	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256355	1	02/26/2018 18:54	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 18:54	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 18:54	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256355	1	02/26/2018 18:54	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256355	1	02/26/2018 18:54	YH
Surr: 4-Terphenyl-d14	102	59.9-128		%REC	256355	1	02/26/2018 18:54	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256391	1	02/26/2018 17:32	YH
2-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 17:32	YH
3,4-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 17:32	YH
Phenol	BRL	10		ug/L	256391	1	02/26/2018 17:32	YH
Surr: 2,4,6-Tribromophenol	78.9	51.4-138		%REC	256391	1	02/26/2018 17:32	YH
Surr: 2-Fluorobiphenyl	91.8	44.6-119		%REC	256391	1	02/26/2018 17:32	YH
Surr: 2-Fluorophenol	65.2	27.2-120		%REC	256391	1	02/26/2018 17:32	YH
Surr: 4-Terphenyl-d14	102	47.1-136		%REC	256391	1	02/26/2018 17:32	YH
Surr: Nitrobenzene-d5	89	40.7-119		%REC	256391	1	02/26/2018 17:32	YH

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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-12R-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 10:15:00 AM
Lab ID:	1802K99-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	56.9	18.1-120		%REC	256391	1	02/26/2018 17:32	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256592	1	03/01/2018 04:06	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363997	1	02/23/2018 23:24	MP
Sulfate	370	10		mg/L	R363997	10	02/23/2018 23:39	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	33	4.0		ug/L	256463	1	02/26/2018 15:41	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	13.4	5.00		mg/L	R363918	50	02/22/2018 09:30	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	0.024	0.010		mg/L	256541	1	02/27/2018 16:00	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256426	1	02/28/2018 15:22	JR
Arsenic	BRL	0.0500		mg/L	256426	1	02/28/2018 15:22	JR
Barium	BRL	0.0200		mg/L	256426	1	02/28/2018 15:22	JR
Beryllium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:22	JR
Cadmium	BRL	0.0050		mg/L	256426	1	02/28/2018 15:22	JR
Chromium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:22	JR
Copper	BRL	0.0100		mg/L	256426	1	02/28/2018 15:22	JR
Iron	13.3	0.100		mg/L	256426	1	02/28/2018 15:22	JR
Lead	BRL	0.0100		mg/L	256426	1	02/28/2018 15:22	JR
Nickel	0.0258	0.0200		mg/L	256426	1	02/28/2018 15:22	JR
Zinc	0.112	0.0200		mg/L	256426	1	02/28/2018 15:22	JR

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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-301D-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 9:50:00 AM
Lab ID:	1802K99-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256558	1	02/28/2018 06:00	NP
Carbon disulfide	BRL	5.0		ug/L	256558	1	02/28/2018 06:00	NP
Ethylbenzene	BRL	5.0		ug/L	256558	1	02/28/2018 06:00	NP
Toluene	BRL	5.0		ug/L	256558	1	02/28/2018 06:00	NP
Xylenes, Total	BRL	5.0		ug/L	256558	1	02/28/2018 06:00	NP
Surr: 4-Bromofluorobenzene	90.3	68-127		%REC	256558	1	02/28/2018 06:00	NP
Surr: Dibromofluoromethane	103	84.4-122		%REC	256558	1	02/28/2018 06:00	NP
Surr: Toluene-d8	102	80.1-116		%REC	256558	1	02/28/2018 06:00	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256591	1	02/28/2018 11:20	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	2.6	0.50		ug/L	256355	1	02/26/2018 19:22	YH
Acenaphthylene	BRL	1.0		ug/L	256355	1	02/26/2018 19:22	YH
Acenaphthene	0.78	0.50		ug/L	256355	1	02/26/2018 19:22	YH
Fluorene	3.8	0.10		ug/L	256355	1	02/26/2018 19:22	YH
Phenanthrene	0.24	0.050		ug/L	256355	1	02/26/2018 19:22	YH
Anthracene	0.21	0.050		ug/L	256355	1	02/26/2018 19:22	YH
Fluoranthene	0.15	0.10		ug/L	256355	1	02/26/2018 19:22	YH
Pyrene	0.13	0.050		ug/L	256355	1	02/26/2018 19:22	YH
Benz(a)anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 19:22	YH
Chrysene	BRL	0.050		ug/L	256355	1	02/26/2018 19:22	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 19:22	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256355	1	02/26/2018 19:22	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 19:22	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 19:22	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256355	1	02/26/2018 19:22	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256355	1	02/26/2018 19:22	YH
Surr: 4-Terphenyl-d14	104	59.9-128		%REC	256355	1	02/26/2018 19:22	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256391	1	02/26/2018 18:00	YH
2-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 18:00	YH
3,4-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 18:00	YH
Phenol	BRL	10		ug/L	256391	1	02/26/2018 18:00	YH
Surr: 2,4,6-Tribromophenol	67.2	51.4-138		%REC	256391	1	02/26/2018 18:00	YH
Surr: 2-Fluorobiphenyl	81.8	44.6-119		%REC	256391	1	02/26/2018 18:00	YH
Surr: 2-Fluorophenol	51	27.2-120		%REC	256391	1	02/26/2018 18:00	YH
Surr: 4-Terphenyl-d14	92.1	47.1-136		%REC	256391	1	02/26/2018 18:00	YH
Surr: Nitrobenzene-d5	80.6	40.7-119		%REC	256391	1	02/26/2018 18:00	YH

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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-301D-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 9:50:00 AM
Lab ID:	1802K99-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	46.8	18.1-120		%REC	256391	1	02/26/2018 18:00	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256592	1	03/01/2018 04:10	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363997	1	02/23/2018 22:54	MP
Sulfate	87	1.0		mg/L	R363997	1	02/23/2018 22:54	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	96	4.0		ug/L	256463	1	02/26/2018 15:46	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	3.82	2.50		mg/L	R363918	25	02/22/2018 09:30	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	0.064	0.010		mg/L	256541	1	02/27/2018 16:00	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256426	1	02/28/2018 15:25	JR
Arsenic	BRL	0.0500		mg/L	256426	1	02/28/2018 15:25	JR
Barium	0.188	0.0200		mg/L	256426	1	02/28/2018 15:25	JR
Beryllium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:25	JR
Cadmium	BRL	0.0050		mg/L	256426	1	02/28/2018 15:25	JR
Chromium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:25	JR
Copper	BRL	0.0100		mg/L	256426	1	02/28/2018 15:25	JR
Iron	4.64	0.100		mg/L	256426	1	02/28/2018 15:25	JR
Lead	BRL	0.0100		mg/L	256426	1	02/28/2018 15:25	JR
Nickel	0.0406	0.0200		mg/L	256426	1	02/28/2018 15:25	JR
Zinc	0.0203	0.0200		mg/L	256426	1	02/28/2018 15:25	JR

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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-207D-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 9:40:00 AM
Lab ID:	1802K99-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256558	1	02/28/2018 06:24	NP
Carbon disulfide	BRL	5.0		ug/L	256558	1	02/28/2018 06:24	NP
Ethylbenzene	BRL	5.0		ug/L	256558	1	02/28/2018 06:24	NP
Toluene	BRL	5.0		ug/L	256558	1	02/28/2018 06:24	NP
Xylenes, Total	BRL	5.0		ug/L	256558	1	02/28/2018 06:24	NP
Surr: 4-Bromofluorobenzene	87	68-127		%REC	256558	1	02/28/2018 06:24	NP
Surr: Dibromofluoromethane	104	84.4-122		%REC	256558	1	02/28/2018 06:24	NP
Surr: Toluene-d8	105	80.1-116		%REC	256558	1	02/28/2018 06:24	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	2.00	2.00		mg/L	256591	1	02/28/2018 11:20	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256355	1	02/26/2018 19:48	YH
Acenaphthylene	BRL	1.0		ug/L	256355	1	02/26/2018 19:48	YH
Acenaphthene	1.7	0.50		ug/L	256355	1	02/26/2018 19:48	YH
Fluorene	0.49	0.10		ug/L	256355	1	02/26/2018 19:48	YH
Phenanthrene	BRL	0.050		ug/L	256355	1	02/26/2018 19:48	YH
Anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 19:48	YH
Fluoranthene	1.1	0.10		ug/L	256355	1	02/26/2018 19:48	YH
Pyrene	2.3	0.050		ug/L	256355	1	02/26/2018 19:48	YH
Benz(a)anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 19:48	YH
Chrysene	BRL	0.050		ug/L	256355	1	02/26/2018 19:48	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 19:48	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256355	1	02/26/2018 19:48	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 19:48	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 19:48	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256355	1	02/26/2018 19:48	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256355	1	02/26/2018 19:48	YH
Surr: 4-Terphenyl-d14	108	59.9-128		%REC	256355	1	02/26/2018 19:48	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256391	1	02/26/2018 18:30	YH
2-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 18:30	YH
3,4-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 18:30	YH
Phenol	BRL	10		ug/L	256391	1	02/26/2018 18:30	YH
Surr: 2,4,6-Tribromophenol	70	51.4-138		%REC	256391	1	02/26/2018 18:30	YH
Surr: 2-Fluorobiphenyl	81.6	44.6-119		%REC	256391	1	02/26/2018 18:30	YH
Surr: 2-Fluorophenol	56.2	27.2-120		%REC	256391	1	02/26/2018 18:30	YH
Surr: 4-Terphenyl-d14	89.8	47.1-136		%REC	256391	1	02/26/2018 18:30	YH
Surr: Nitrobenzene-d5	78	40.7-119		%REC	256391	1	02/26/2018 18:30	YH

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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-207D-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 9:40:00 AM
Lab ID:	1802K99-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	50.8	18.1-120		%REC	256391	1	02/26/2018 18:30	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256592	1	03/01/2018 04:14	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363997	1	02/23/2018 21:55	MP
Sulfate	3.9	1.0		mg/L	R363997	1	02/23/2018 21:55	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	690	20		ug/L	256463	5	02/26/2018 16:05	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	0.560	0.500		mg/L	R363918	5	02/22/2018 09:30	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	0.017	0.010		mg/L	256541	1	02/27/2018 16:00	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256426	1	02/28/2018 15:29	JR
Arsenic	BRL	0.0500		mg/L	256426	1	02/28/2018 15:29	JR
Barium	2.74	0.0200		mg/L	256426	1	02/28/2018 15:29	JR
Beryllium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:29	JR
Cadmium	BRL	0.0050		mg/L	256426	1	02/28/2018 15:29	JR
Chromium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:29	JR
Copper	BRL	0.0100		mg/L	256426	1	02/28/2018 15:29	JR
Iron	6.52	0.100		mg/L	256426	1	02/28/2018 15:29	JR
Lead	BRL	0.0100		mg/L	256426	1	02/28/2018 15:29	JR
Nickel	0.0490	0.0200		mg/L	256426	1	02/28/2018 15:29	JR
Zinc	BRL	0.0200		mg/L	256426	1	02/28/2018 15:29	JR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- 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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	AMW-2-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 10:15:00 AM
Lab ID:	1802K99-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256558	1	02/28/2018 06:48	NP
Carbon disulfide	BRL	5.0		ug/L	256558	1	02/28/2018 06:48	NP
Ethylbenzene	BRL	5.0		ug/L	256558	1	02/28/2018 06:48	NP
Toluene	BRL	5.0		ug/L	256558	1	02/28/2018 06:48	NP
Xylenes, Total	BRL	5.0		ug/L	256558	1	02/28/2018 06:48	NP
Surr: 4-Bromofluorobenzene	87.4	68-127		%REC	256558	1	02/28/2018 06:48	NP
Surr: Dibromofluoromethane	106	84.4-122		%REC	256558	1	02/28/2018 06:48	NP
Surr: Toluene-d8	102	80.1-116		%REC	256558	1	02/28/2018 06:48	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256591	1	02/28/2018 11:20	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256355	1	02/26/2018 20:13	YH
Acenaphthylene	BRL	1.0		ug/L	256355	1	02/26/2018 20:13	YH
Acenaphthene	BRL	0.50		ug/L	256355	1	02/26/2018 20:13	YH
Fluorene	BRL	0.10		ug/L	256355	1	02/26/2018 20:13	YH
Phenanthrene	BRL	0.050		ug/L	256355	1	02/26/2018 20:13	YH
Anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 20:13	YH
Fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 20:13	YH
Pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 20:13	YH
Benz(a)anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 20:13	YH
Chrysene	BRL	0.050		ug/L	256355	1	02/26/2018 20:13	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 20:13	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256355	1	02/26/2018 20:13	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 20:13	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 20:13	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256355	1	02/26/2018 20:13	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256355	1	02/26/2018 20:13	YH
Surr: 4-Terphenyl-d14	98.5	59.9-128		%REC	256355	1	02/26/2018 20:13	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256391	1	02/26/2018 18:56	YH
2-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 18:56	YH
3,4-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 18:56	YH
Phenol	BRL	10		ug/L	256391	1	02/26/2018 18:56	YH
Surr: 2,4,6-Tribromophenol	68	51.4-138		%REC	256391	1	02/26/2018 18:56	YH
Surr: 2-Fluorobiphenyl	89.2	44.6-119		%REC	256391	1	02/26/2018 18:56	YH
Surr: 2-Fluorophenol	60.1	27.2-120		%REC	256391	1	02/26/2018 18:56	YH
Surr: 4-Terphenyl-d14	99.1	47.1-136		%REC	256391	1	02/26/2018 18:56	YH
Surr: Nitrobenzene-d5	86	40.7-119		%REC	256391	1	02/26/2018 18:56	YH

Qualifiers:

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- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
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Analytical Environmental Services, Inc **Date:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	AMW-2-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 10:15:00 AM
Lab ID:	1802K99-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	53.6	18.1-120		%REC	256391	1	02/26/2018 18:56	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256592	1	03/01/2018 04:18	AS
ION SCAN SW9056A								
Nitrate	2.7	0.25		mg/L	R363997	1	02/24/2018 00:38	MP
Sulfate	38	1.0		mg/L	R363997	1	02/24/2018 00:38	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	6.0	4.0		ug/L	256509	1	02/27/2018 11:32	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363918	1	02/22/2018 09:30	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	BRL	0.010		mg/L	256541	1	02/27/2018 16:00	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256426	1	02/28/2018 15:38	JR
Arsenic	BRL	0.0500		mg/L	256426	1	02/28/2018 15:38	JR
Barium	0.0958	0.0200		mg/L	256426	1	02/28/2018 15:38	JR
Beryllium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:38	JR
Cadmium	BRL	0.0050		mg/L	256426	1	02/28/2018 15:38	JR
Chromium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:38	JR
Copper	BRL	0.0100		mg/L	256426	1	02/28/2018 15:38	JR
Iron	BRL	0.100		mg/L	256426	1	02/28/2018 15:38	JR
Lead	BRL	0.0100		mg/L	256426	1	02/28/2018 15:38	JR
Nickel	BRL	0.0200		mg/L	256426	1	02/28/2018 15:38	JR
Zinc	0.0292	0.0200		mg/L	256426	1	02/28/2018 15:38	JR

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- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-400-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 10:40:00 AM
Lab ID:	1802K99-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256558	1	02/28/2018 07:13	NP
Carbon disulfide	BRL	5.0		ug/L	256558	1	02/28/2018 07:13	NP
Ethylbenzene	BRL	5.0		ug/L	256558	1	02/28/2018 07:13	NP
Toluene	BRL	5.0		ug/L	256558	1	02/28/2018 07:13	NP
Xylenes, Total	BRL	5.0		ug/L	256558	1	02/28/2018 07:13	NP
Surr: 4-Bromofluorobenzene	85.8	68-127		%REC	256558	1	02/28/2018 07:13	NP
Surr: Dibromofluoromethane	105	84.4-122		%REC	256558	1	02/28/2018 07:13	NP
Surr: Toluene-d8	101	80.1-116		%REC	256558	1	02/28/2018 07:13	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256591	1	02/28/2018 11:20	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256355	1	02/26/2018 20:40	YH
Acenaphthylene	BRL	1.0		ug/L	256355	1	02/26/2018 20:40	YH
Acenaphthene	0.52	0.50		ug/L	256355	1	02/26/2018 20:40	YH
Fluorene	BRL	0.10		ug/L	256355	1	02/26/2018 20:40	YH
Phenanthrene	BRL	0.050		ug/L	256355	1	02/26/2018 20:40	YH
Anthracene	0.11	0.050		ug/L	256355	1	02/26/2018 20:40	YH
Fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 20:40	YH
Pyrene	0.13	0.050		ug/L	256355	1	02/26/2018 20:40	YH
Benz(a)anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 20:40	YH
Chrysene	BRL	0.050		ug/L	256355	1	02/26/2018 20:40	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 20:40	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256355	1	02/26/2018 20:40	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 20:40	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 20:40	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256355	1	02/26/2018 20:40	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256355	1	02/26/2018 20:40	YH
Surr: 4-Terphenyl-d14	128	59.9-128		%REC	256355	1	02/26/2018 20:40	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256391	1	02/26/2018 19:25	YH
2-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 19:25	YH
3,4-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 19:25	YH
Phenol	BRL	10		ug/L	256391	1	02/26/2018 19:25	YH
Surr: 2,4,6-Tribromophenol	78.4	51.4-138		%REC	256391	1	02/26/2018 19:25	YH
Surr: 2-Fluorobiphenyl	93	44.6-119		%REC	256391	1	02/26/2018 19:25	YH
Surr: 2-Fluorophenol	69.4	27.2-120		%REC	256391	1	02/26/2018 19:25	YH
Surr: 4-Terphenyl-d14	102	47.1-136		%REC	256391	1	02/26/2018 19:25	YH
Surr: Nitrobenzene-d5	93.9	40.7-119		%REC	256391	1	02/26/2018 19:25	YH

Qualifiers:

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- Narr See case narrative
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Analytical Environmental Services, Inc **Date:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-400-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 10:40:00 AM
Lab ID:	1802K99-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	60.8	18.1-120		%REC	256391	1	02/26/2018 19:25	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256592	1	03/01/2018 04:22	AS
ION SCAN SW9056A								
Nitrate	2.2	0.25		mg/L	R363997	1	02/24/2018 01:07	MP
Sulfate	370	10		mg/L	R363997	10	02/24/2018 01:22	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	47	4.0		ug/L	256509	1	02/27/2018 11:38	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	2.27	0.500		mg/L	R363918	5	02/22/2018 09:30	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	0.075	0.010		mg/L	256541	1	02/27/2018 16:00	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256426	1	02/28/2018 15:42	JR
Arsenic	BRL	0.0500		mg/L	256426	1	02/28/2018 15:42	JR
Barium	0.0404	0.0200		mg/L	256426	1	02/28/2018 15:42	JR
Beryllium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:42	JR
Cadmium	BRL	0.0050		mg/L	256426	1	02/28/2018 15:42	JR
Chromium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:42	JR
Copper	BRL	0.0100		mg/L	256426	1	02/28/2018 15:42	JR
Iron	2.44	0.100		mg/L	256426	1	02/28/2018 15:42	JR
Lead	BRL	0.0100		mg/L	256426	1	02/28/2018 15:42	JR
Nickel	BRL	0.0200		mg/L	256426	1	02/28/2018 15:42	JR
Zinc	0.0551	0.0200		mg/L	256426	1	02/28/2018 15:42	JR

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- 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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-302DD-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 12:00:00 PM
Lab ID:	1802K99-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	26	5.0		ug/L	256558	1	02/28/2018 07:37	NP
Carbon disulfide	BRL	5.0		ug/L	256558	1	02/28/2018 07:37	NP
Ethylbenzene	26	5.0		ug/L	256558	1	02/28/2018 07:37	NP
Toluene	BRL	5.0		ug/L	256558	1	02/28/2018 07:37	NP
Xylenes, Total	BRL	5.0		ug/L	256558	1	02/28/2018 07:37	NP
Surr: 4-Bromofluorobenzene	87.3	68-127		%REC	256558	1	02/28/2018 07:37	NP
Surr: Dibromofluoromethane	102	84.4-122		%REC	256558	1	02/28/2018 07:37	NP
Surr: Toluene-d8	102	80.1-116		%REC	256558	1	02/28/2018 07:37	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	4.40	2.00		mg/L	256591	1	02/28/2018 11:20	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	30	5.0		ug/L	256355	10	02/28/2018 12:59	YH
Acenaphthylene	2.2	1.0		ug/L	256355	1	02/26/2018 21:06	YH
Acenaphthene	2.7	0.50		ug/L	256355	1	02/26/2018 21:06	YH
Fluorene	1.2	0.10		ug/L	256355	1	02/26/2018 21:06	YH
Phenanthrene	0.14	0.050		ug/L	256355	1	02/26/2018 21:06	YH
Anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 21:06	YH
Fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 21:06	YH
Pyrene	0.15	0.050		ug/L	256355	1	02/26/2018 21:06	YH
Benz(a)anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 21:06	YH
Chrysene	BRL	0.050		ug/L	256355	1	02/26/2018 21:06	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 21:06	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256355	1	02/26/2018 21:06	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 21:06	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 21:06	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256355	1	02/26/2018 21:06	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256355	1	02/26/2018 21:06	YH
Surr: 4-Terphenyl-d14	102	59.9-128		%REC	256355	1	02/26/2018 21:06	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256391	1	02/26/2018 19:53	YH
2-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 19:53	YH
3,4-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 19:53	YH
Phenol	BRL	10		ug/L	256391	1	02/26/2018 19:53	YH
Surr: 2,4,6-Tribromophenol	76.9	51.4-138		%REC	256391	1	02/26/2018 19:53	YH
Surr: 2-Fluorobiphenyl	90.4	44.6-119		%REC	256391	1	02/26/2018 19:53	YH
Surr: 2-Fluorophenol	60.1	27.2-120		%REC	256391	1	02/26/2018 19:53	YH
Surr: 4-Terphenyl-d14	93.4	47.1-136		%REC	256391	1	02/26/2018 19:53	YH
Surr: Nitrobenzene-d5	90.2	40.7-119		%REC	256391	1	02/26/2018 19:53	YH

Qualifiers:

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- 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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-302DD-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 12:00:00 PM
Lab ID:	1802K99-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	53.7	18.1-120		%REC	256391	1	02/26/2018 19:53	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256592	1	03/01/2018 04:26	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363997	1	02/24/2018 02:36	MP
Sulfate	BRL	1.0		mg/L	R363997	1	02/24/2018 02:36	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	2000	80		ug/L	256509	20	02/27/2018 13:29	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363918	1	02/22/2018 09:30	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	256541	1	02/27/2018 16:00	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256426	1	02/28/2018 15:45	JR
Arsenic	BRL	0.0500		mg/L	256426	1	02/28/2018 15:45	JR
Barium	0.879	0.0200		mg/L	256426	1	02/28/2018 15:45	JR
Beryllium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:45	JR
Cadmium	BRL	0.0050		mg/L	256426	1	02/28/2018 15:45	JR
Chromium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:45	JR
Copper	BRL	0.0100		mg/L	256426	1	02/28/2018 15:45	JR
Iron	BRL	0.100		mg/L	256426	1	02/28/2018 15:45	JR
Lead	BRL	0.0100		mg/L	256426	1	02/28/2018 15:45	JR
Nickel	0.0346	0.0200		mg/L	256426	1	02/28/2018 15:45	JR
Zinc	BRL	0.0200		mg/L	256426	1	02/28/2018 15:45	JR

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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-102-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 12:10:00 PM
Lab ID:	1802K99-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256558	1	02/28/2018 08:01	NP
Carbon disulfide	BRL	5.0		ug/L	256558	1	02/28/2018 08:01	NP
Ethylbenzene	BRL	5.0		ug/L	256558	1	02/28/2018 08:01	NP
Toluene	BRL	5.0		ug/L	256558	1	02/28/2018 08:01	NP
Xylenes, Total	BRL	5.0		ug/L	256558	1	02/28/2018 08:01	NP
Surr: 4-Bromofluorobenzene	85.8	68-127		%REC	256558	1	02/28/2018 08:01	NP
Surr: Dibromofluoromethane	107	84.4-122		%REC	256558	1	02/28/2018 08:01	NP
Surr: Toluene-d8	105	80.1-116		%REC	256558	1	02/28/2018 08:01	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256629	1	02/28/2018 16:15	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256355	1	02/26/2018 21:33	YH
Acenaphthylene	BRL	1.0		ug/L	256355	1	02/26/2018 21:33	YH
Acenaphthene	BRL	0.50		ug/L	256355	1	02/26/2018 21:33	YH
Fluorene	BRL	0.10		ug/L	256355	1	02/26/2018 21:33	YH
Phenanthrene	BRL	0.050		ug/L	256355	1	02/26/2018 21:33	YH
Anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 21:33	YH
Fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 21:33	YH
Pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 21:33	YH
Benz(a)anthracene	BRL	0.050		ug/L	256355	1	02/26/2018 21:33	YH
Chrysene	BRL	0.050		ug/L	256355	1	02/26/2018 21:33	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256355	1	02/26/2018 21:33	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256355	1	02/26/2018 21:33	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 21:33	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256355	1	02/26/2018 21:33	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256355	1	02/26/2018 21:33	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256355	1	02/26/2018 21:33	YH
Surr: 4-Terphenyl-d14	106	59.9-128		%REC	256355	1	02/26/2018 21:33	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256391	1	02/26/2018 20:20	YH
2-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 20:20	YH
3,4-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 20:20	YH
Phenol	BRL	10		ug/L	256391	1	02/26/2018 20:20	YH
Surr: 2,4,6-Tribromophenol	67.7	51.4-138		%REC	256391	1	02/26/2018 20:20	YH
Surr: 2-Fluorobiphenyl	80.4	44.6-119		%REC	256391	1	02/26/2018 20:20	YH
Surr: 2-Fluorophenol	53.9	27.2-120		%REC	256391	1	02/26/2018 20:20	YH
Surr: 4-Terphenyl-d14	90.4	47.1-136		%REC	256391	1	02/26/2018 20:20	YH
Surr: Nitrobenzene-d5	78.1	40.7-119		%REC	256391	1	02/26/2018 20:20	YH

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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-102-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 12:10:00 PM
Lab ID:	1802K99-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	50.9	18.1-120		%REC	256391	1	02/26/2018 20:20	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256592	1	03/01/2018 04:38	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363997	1	02/24/2018 03:50	MP
Sulfate	220	10		mg/L	R363997	10	02/24/2018 10:44	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	BRL	4.0		ug/L	256509	1	02/27/2018 11:53	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363918	1	02/22/2018 09:30	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	BRL	0.010		mg/L	256614	1	02/28/2018 15:45	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256426	1	02/28/2018 15:48	JR
Arsenic	BRL	0.0500		mg/L	256426	1	02/28/2018 15:48	JR
Barium	0.0916	0.0200		mg/L	256426	1	02/28/2018 15:48	JR
Beryllium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:48	JR
Cadmium	BRL	0.0050		mg/L	256426	1	02/28/2018 15:48	JR
Chromium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:48	JR
Copper	0.0145	0.0100		mg/L	256426	1	02/28/2018 15:48	JR
Iron	BRL	0.100		mg/L	256426	1	02/28/2018 15:48	JR
Lead	BRL	0.0100		mg/L	256426	1	02/28/2018 15:48	JR
Nickel	0.0644	0.0200		mg/L	256426	1	02/28/2018 15:48	JR
Zinc	1.29	0.0200		mg/L	256426	1	02/28/2018 15:48	JR

Qualifiers:

- * Value exceeds maximum contaminant level
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- 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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	DUP-3-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018
Lab ID:	1802K99-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256558	1	02/28/2018 08:49	NP
Carbon disulfide	BRL	5.0		ug/L	256558	1	02/28/2018 08:49	NP
Ethylbenzene	BRL	5.0		ug/L	256558	1	02/28/2018 08:49	NP
Toluene	BRL	5.0		ug/L	256558	1	02/28/2018 08:49	NP
Xylenes, Total	BRL	5.0		ug/L	256558	1	02/28/2018 08:49	NP
Surr: 4-Bromofluorobenzene	88	68-127		%REC	256558	1	02/28/2018 08:49	NP
Surr: Dibromofluoromethane	107	84.4-122		%REC	256558	1	02/28/2018 08:49	NP
Surr: Toluene-d8	103	80.1-116		%REC	256558	1	02/28/2018 08:49	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256629	1	02/28/2018 16:15	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256410	1	02/27/2018 12:42	YH
Acenaphthylene	BRL	1.0		ug/L	256410	1	02/27/2018 12:42	YH
Acenaphthene	0.52	0.50		ug/L	256410	1	02/27/2018 12:42	YH
Fluorene	0.11	0.10		ug/L	256410	1	02/27/2018 12:42	YH
Phenanthrene	BRL	0.050		ug/L	256410	1	02/27/2018 12:42	YH
Anthracene	0.15	0.050		ug/L	256410	1	02/27/2018 12:42	YH
Fluoranthene	0.10	0.10		ug/L	256410	1	02/27/2018 12:42	YH
Pyrene	0.17	0.050		ug/L	256410	1	02/27/2018 12:42	YH
Benz(a)anthracene	BRL	0.050		ug/L	256410	1	02/27/2018 12:42	YH
Chrysene	BRL	0.050		ug/L	256410	1	02/27/2018 12:42	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 12:42	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256410	1	02/27/2018 12:42	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 12:42	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 12:42	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256410	1	02/27/2018 12:42	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256410	1	02/27/2018 12:42	YH
Surr: 4-Terphenyl-d14	112	59.9-128		%REC	256410	1	02/27/2018 12:42	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256391	1	02/26/2018 20:46	YH
2-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 20:46	YH
3,4-Methylphenol	BRL	10		ug/L	256391	1	02/26/2018 20:46	YH
Phenol	BRL	10		ug/L	256391	1	02/26/2018 20:46	YH
Surr: 2,4,6-Tribromophenol	74.2	51.4-138		%REC	256391	1	02/26/2018 20:46	YH
Surr: 2-Fluorobiphenyl	84.5	44.6-119		%REC	256391	1	02/26/2018 20:46	YH
Surr: 2-Fluorophenol	61.2	27.2-120		%REC	256391	1	02/26/2018 20:46	YH
Surr: 4-Terphenyl-d14	95.1	47.1-136		%REC	256391	1	02/26/2018 20:46	YH
Surr: Nitrobenzene-d5	82	40.7-119		%REC	256391	1	02/26/2018 20:46	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
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- > 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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	DUP-3-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018
Lab ID:	1802K99-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	54	18.1-120		%REC	256391	1	02/26/2018 20:46	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256592	1	03/01/2018 04:42	AS
ION SCAN SW9056A								
Nitrate	2.2	0.25	H	mg/L	R363997	1	02/24/2018 01:37	MP
Sulfate	480	10		mg/L	R363997	10	02/24/2018 01:52	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	41	4.0		ug/L	256509	1	02/27/2018 11:58	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	2.35	0.500		mg/L	R363918	5	02/22/2018 09:30	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	0.081	0.010		mg/L	256614	1	02/28/2018 15:45	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256426	1	02/28/2018 15:52	JR
Arsenic	BRL	0.0500		mg/L	256426	1	02/28/2018 15:52	JR
Barium	0.0421	0.0200		mg/L	256426	1	02/28/2018 15:52	JR
Beryllium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:52	JR
Cadmium	BRL	0.0050		mg/L	256426	1	02/28/2018 15:52	JR
Chromium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:52	JR
Copper	BRL	0.0100		mg/L	256426	1	02/28/2018 15:52	JR
Iron	2.65	0.100		mg/L	256426	1	02/28/2018 15:52	JR
Lead	BRL	0.0100		mg/L	256426	1	02/28/2018 15:52	JR
Nickel	BRL	0.0200		mg/L	256426	1	02/28/2018 15:52	JR
Zinc	0.0567	0.0200		mg/L	256426	1	02/28/2018 15:52	JR

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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	DUP-4-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018
Lab ID:	1802K99-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	550	50		ug/L	256558	10	02/28/2018 09:39	NP
Carbon disulfide	BRL	5.0		ug/L	256558	1	02/28/2018 09:14	NP
Ethylbenzene	570	50		ug/L	256558	10	02/28/2018 09:39	NP
Toluene	BRL	5.0		ug/L	256558	1	02/28/2018 09:14	NP
Xylenes, Total	42	5.0		ug/L	256558	1	02/28/2018 09:14	NP
Surr: 4-Bromofluorobenzene	91.6	68-127		%REC	256558	10	02/28/2018 09:39	NP
Surr: 4-Bromofluorobenzene	95	68-127		%REC	256558	1	02/28/2018 09:14	NP
Surr: Dibromofluoromethane	99.7	84.4-122		%REC	256558	1	02/28/2018 09:14	NP
Surr: Dibromofluoromethane	105	84.4-122		%REC	256558	10	02/28/2018 09:39	NP
Surr: Toluene-d8	98.8	80.1-116		%REC	256558	1	02/28/2018 09:14	NP
Surr: Toluene-d8	101	80.1-116		%REC	256558	10	02/28/2018 09:39	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256629	1	02/28/2018 16:15	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	2300	500		ug/L	256410	1000	02/28/2018 21:00	YH
Acenaphthylene	3.7	1.0		ug/L	256410	1	02/27/2018 13:09	YH
Acenaphthene	67	50		ug/L	256410	100	02/28/2018 14:19	YH
Fluorene	20	10		ug/L	256410	100	02/28/2018 14:19	YH
Phenanthrene	18	5.0		ug/L	256410	100	02/28/2018 14:19	YH
Anthracene	3.7	0.050		ug/L	256410	1	02/27/2018 13:09	YH
Fluoranthene	4.2	0.10		ug/L	256410	1	02/27/2018 13:09	YH
Pyrene	5.7	0.050		ug/L	256410	1	02/27/2018 13:09	YH
Benz(a)anthracene	0.11	0.050		ug/L	256410	1	02/27/2018 13:09	YH
Chrysene	0.096	0.050		ug/L	256410	1	02/27/2018 13:09	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 13:09	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256410	1	02/27/2018 13:09	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 13:09	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 13:09	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256410	1	02/27/2018 13:09	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256410	1	02/27/2018 13:09	YH
Surr: 4-Terphenyl-d14	96.9	59.9-128		%REC	256410	1	02/27/2018 13:09	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256391	1	02/27/2018 19:55	YH
2-Methylphenol	BRL	10		ug/L	256391	1	02/27/2018 19:55	YH
3,4-Methylphenol	BRL	10		ug/L	256391	1	02/27/2018 19:55	YH
Phenol	BRL	10		ug/L	256391	1	02/27/2018 19:55	YH
Surr: 2,4,6-Tribromophenol	70.2	51.4-138		%REC	256391	1	02/27/2018 19:55	YH
Surr: 2-Fluorobiphenyl	80.4	44.6-119		%REC	256391	1	02/27/2018 19:55	YH

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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	DUP-4-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018
Lab ID:	1802K99-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: 2-Fluorophenol	59.1	27.2-120		%REC	256391	1	02/27/2018 19:55	YH
Surr: 4-Terphenyl-d14	83	47.1-136		%REC	256391	1	02/27/2018 19:55	YH
Surr: Nitrobenzene-d5	94.1	40.7-119		%REC	256391	1	02/27/2018 19:55	YH
Surr: Phenol-d5	59.2	18.1-120		%REC	256391	1	02/27/2018 19:55	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256592	1	03/01/2018 04:45	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25	H	mg/L	R364010	1	02/24/2018 06:48	MP
Sulfate	BRL	1.0		mg/L	R364010	1	02/24/2018 06:48	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	840	40		ug/L	256509	10	02/27/2018 13:37	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	0.703	0.100		mg/L	R363918	1	02/22/2018 09:30	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	256614	1	02/28/2018 15:45	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256426	1	02/28/2018 15:55	JR
Arsenic	BRL	0.0500		mg/L	256426	1	02/28/2018 15:55	JR
Barium	5.28	0.0200		mg/L	256426	1	02/28/2018 15:55	JR
Beryllium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:55	JR
Cadmium	BRL	0.0050		mg/L	256426	1	02/28/2018 15:55	JR
Chromium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:55	JR
Copper	BRL	0.0100		mg/L	256426	1	02/28/2018 15:55	JR
Iron	2.82	0.100		mg/L	256426	1	02/28/2018 15:55	JR
Lead	BRL	0.0100		mg/L	256426	1	02/28/2018 15:55	JR
Nickel	0.0803	0.0200		mg/L	256426	1	02/28/2018 15:55	JR
Zinc	BRL	0.0200		mg/L	256426	1	02/28/2018 15:55	JR

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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-204D-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 11:45:00 AM
Lab ID:	1802K99-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	500	50		ug/L	256558	10	02/28/2018 10:26	NP
Carbon disulfide	BRL	5.0		ug/L	256558	1	02/28/2018 10:02	NP
Ethylbenzene	520	50		ug/L	256558	10	02/28/2018 10:26	NP
Toluene	BRL	5.0		ug/L	256558	1	02/28/2018 10:02	NP
Xylenes, Total	41	5.0		ug/L	256558	1	02/28/2018 10:02	NP
Surr: 4-Bromofluorobenzene	89.9	68-127		%REC	256558	10	02/28/2018 10:26	NP
Surr: 4-Bromofluorobenzene	96.8	68-127		%REC	256558	1	02/28/2018 10:02	NP
Surr: Dibromofluoromethane	101	84.4-122		%REC	256558	1	02/28/2018 10:02	NP
Surr: Dibromofluoromethane	101	84.4-122		%REC	256558	10	02/28/2018 10:26	NP
Surr: Toluene-d8	99.3	80.1-116		%REC	256558	10	02/28/2018 10:26	NP
Surr: Toluene-d8	101	80.1-116		%REC	256558	1	02/28/2018 10:02	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	16.4	2.00		mg/L	256629	1	02/28/2018 16:15	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	1300	500		ug/L	256410	1000	02/28/2018 21:27	YH
Acenaphthylene	2.3	1.0		ug/L	256410	1	02/27/2018 13:36	YH
Acenaphthene	40	10		ug/L	256410	100	02/28/2018 14:46	YH
Fluorene	12	10		ug/L	256410	100	02/28/2018 14:46	YH
Phenanthrene	11	5.0		ug/L	256410	100	02/28/2018 14:46	YH
Anthracene	2.2	0.050		ug/L	256410	1	02/27/2018 13:36	YH
Fluoranthene	2.6	0.10		ug/L	256410	1	02/27/2018 13:36	YH
Pyrene	3.4	0.050		ug/L	256410	1	02/27/2018 13:36	YH
Benz(a)anthracene	0.067	0.050		ug/L	256410	1	02/27/2018 13:36	YH
Chrysene	0.056	0.050		ug/L	256410	1	02/27/2018 13:36	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 13:36	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256410	1	02/27/2018 13:36	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 13:36	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 13:36	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256410	1	02/27/2018 13:36	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256410	1	02/27/2018 13:36	YH
Surr: 4-Terphenyl-d14	56.9	59.9-128	S	%REC	256410	1	02/27/2018 13:36	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256391	1	02/27/2018 20:21	YH
2-Methylphenol	BRL	10		ug/L	256391	1	02/27/2018 20:21	YH
3,4-Methylphenol	BRL	10		ug/L	256391	1	02/27/2018 20:21	YH
Phenol	BRL	10		ug/L	256391	1	02/27/2018 20:21	YH
Surr: 2,4,6-Tribromophenol	83.2	51.4-138		%REC	256391	1	02/27/2018 20:21	YH
Surr: 2-Fluorobiphenyl	92.5	44.6-119		%REC	256391	1	02/27/2018 20:21	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
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- 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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-204D-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 11:45:00 AM
Lab ID:	1802K99-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: 2-Fluorophenol	63.1	27.2-120		%REC	256391	1	02/27/2018 20:21	YH
Surr: 4-Terphenyl-d14	102	47.1-136		%REC	256391	1	02/27/2018 20:21	YH
Surr: Nitrobenzene-d5	117	40.7-119		%REC	256391	1	02/27/2018 20:21	YH
Surr: Phenol-d5	60.3	18.1-120		%REC	256391	1	02/27/2018 20:21	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256592	1	03/01/2018 04:49	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363997	1	02/24/2018 02:06	MP
Sulfate	BRL	1.0		mg/L	R363997	1	02/24/2018 02:06	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	950	40		ug/L	256509	10	02/27/2018 13:49	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	1.04	0.100		mg/L	R363918	1	02/22/2018 09:30	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	256614	1	02/28/2018 15:45	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256426	1	02/28/2018 15:58	JR
Arsenic	BRL	0.0500		mg/L	256426	1	02/28/2018 15:58	JR
Barium	5.34	0.0200		mg/L	256426	1	02/28/2018 15:58	JR
Beryllium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:58	JR
Cadmium	BRL	0.0050		mg/L	256426	1	02/28/2018 15:58	JR
Chromium	BRL	0.0100		mg/L	256426	1	02/28/2018 15:58	JR
Copper	BRL	0.0100		mg/L	256426	1	02/28/2018 15:58	JR
Iron	2.83	0.100		mg/L	256426	1	02/28/2018 15:58	JR
Lead	BRL	0.0100		mg/L	256426	1	02/28/2018 15:58	JR
Nickel	0.0777	0.0200		mg/L	256426	1	02/28/2018 15:58	JR
Zinc	BRL	0.0200		mg/L	256426	1	02/28/2018 15:58	JR

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- 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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-103-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 12:35:00 PM
Lab ID:	1802K99-013	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256558	1	02/28/2018 08:25	NP
Carbon disulfide	BRL	5.0		ug/L	256558	1	02/28/2018 08:25	NP
Ethylbenzene	BRL	5.0		ug/L	256558	1	02/28/2018 08:25	NP
Toluene	BRL	5.0		ug/L	256558	1	02/28/2018 08:25	NP
Xylenes, Total	BRL	5.0		ug/L	256558	1	02/28/2018 08:25	NP
Surr: 4-Bromofluorobenzene	83.1	68-127		%REC	256558	1	02/28/2018 08:25	NP
Surr: Dibromofluoromethane	106	84.4-122		%REC	256558	1	02/28/2018 08:25	NP
Surr: Toluene-d8	103	80.1-116		%REC	256558	1	02/28/2018 08:25	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	24.8	2.00		mg/L	256629	1	02/28/2018 16:15	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256410	1	02/27/2018 14:03	YH
Acenaphthylene	BRL	1.0		ug/L	256410	1	02/27/2018 14:03	YH
Acenaphthene	BRL	0.50		ug/L	256410	1	02/27/2018 14:03	YH
Fluorene	BRL	0.10		ug/L	256410	1	02/27/2018 14:03	YH
Phenanthrene	BRL	0.050		ug/L	256410	1	02/27/2018 14:03	YH
Anthracene	BRL	0.050		ug/L	256410	1	02/27/2018 14:03	YH
Fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 14:03	YH
Pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 14:03	YH
Benz(a)anthracene	BRL	0.050		ug/L	256410	1	02/27/2018 14:03	YH
Chrysene	BRL	0.050		ug/L	256410	1	02/27/2018 14:03	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 14:03	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256410	1	02/27/2018 14:03	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 14:03	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 14:03	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256410	1	02/27/2018 14:03	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256410	1	02/27/2018 14:03	YH
Surr: 4-Terphenyl-d14	63.8	59.9-128		%REC	256410	1	02/27/2018 14:03	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256391	1	02/27/2018 20:46	YH
2-Methylphenol	BRL	10		ug/L	256391	1	02/27/2018 20:46	YH
3,4-Methylphenol	BRL	10		ug/L	256391	1	02/27/2018 20:46	YH
Phenol	BRL	10		ug/L	256391	1	02/27/2018 20:46	YH
Surr: 2,4,6-Tribromophenol	62.9	51.4-138		%REC	256391	1	02/27/2018 20:46	YH
Surr: 2-Fluorobiphenyl	77.5	44.6-119		%REC	256391	1	02/27/2018 20:46	YH
Surr: 2-Fluorophenol	57	27.2-120		%REC	256391	1	02/27/2018 20:46	YH
Surr: 4-Terphenyl-d14	84.7	47.1-136		%REC	256391	1	02/27/2018 20:46	YH
Surr: Nitrobenzene-d5	75.5	40.7-119		%REC	256391	1	02/27/2018 20:46	YH

Qualifiers:

- * Value exceeds maximum contaminant level
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- N Analyte not NELAC certified
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- > 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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-103-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 12:35:00 PM
Lab ID:	1802K99-013	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	54.2	18.1-120		%REC	256391	1	02/27/2018 20:46	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256493	1	02/27/2018 19:27	AS
ION SCAN SW9056A								
Nitrate	2.1	0.25		mg/L	R363997	1	02/24/2018 04:05	MP
Sulfate	14	1.0		mg/L	R363997	1	02/24/2018 04:05	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	BRL	4.0		ug/L	256509	1	02/27/2018 12:17	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363918	1	02/22/2018 09:30	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	BRL	0.010		mg/L	256614	1	02/28/2018 15:45	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256426	1	02/28/2018 16:01	JR
Arsenic	BRL	0.0500		mg/L	256426	1	02/28/2018 16:01	JR
Barium	0.0356	0.0200		mg/L	256426	1	02/28/2018 16:01	JR
Beryllium	BRL	0.0100		mg/L	256426	1	02/28/2018 16:01	JR
Cadmium	BRL	0.0050		mg/L	256426	1	02/28/2018 16:01	JR
Chromium	BRL	0.0100		mg/L	256426	1	02/28/2018 16:01	JR
Copper	BRL	0.0100		mg/L	256426	1	02/28/2018 16:01	JR
Iron	BRL	0.100		mg/L	256426	1	02/28/2018 16:01	JR
Lead	BRL	0.0100		mg/L	256426	1	02/28/2018 16:01	JR
Nickel	BRL	0.0200		mg/L	256426	1	02/28/2018 16:01	JR
Zinc	BRL	0.0200		mg/L	256426	1	02/28/2018 16:01	JR

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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-1-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 12:01:00 AM
Lab ID:	1802K99-014	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256558	1	02/28/2018 00:46	NP
Carbon disulfide	BRL	5.0		ug/L	256558	1	02/28/2018 00:46	NP
Ethylbenzene	BRL	5.0		ug/L	256558	1	02/28/2018 00:46	NP
Toluene	BRL	5.0		ug/L	256558	1	02/28/2018 00:46	NP
Xylenes, Total	BRL	5.0		ug/L	256558	1	02/28/2018 00:46	NP
Surr: 4-Bromofluorobenzene	89.4	68-127		%REC	256558	1	02/28/2018 00:46	NP
Surr: Dibromofluoromethane	105	84.4-122		%REC	256558	1	02/28/2018 00:46	NP
Surr: Toluene-d8	103	80.1-116		%REC	256558	1	02/28/2018 00:46	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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-2-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 12:01:01 AM
Lab ID:	1802K99-015	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256558	1	02/28/2018 01:10	NP
Carbon disulfide	BRL	5.0		ug/L	256558	1	02/28/2018 01:10	NP
Ethylbenzene	BRL	5.0		ug/L	256558	1	02/28/2018 01:10	NP
Toluene	BRL	5.0		ug/L	256558	1	02/28/2018 01:10	NP
Xylenes, Total	BRL	5.0		ug/L	256558	1	02/28/2018 01:10	NP
Surr: 4-Bromofluorobenzene	88.7	68-127		%REC	256558	1	02/28/2018 01:10	NP
Surr: Dibromofluoromethane	108	84.4-122		%REC	256558	1	02/28/2018 01:10	NP
Surr: Toluene-d8	109	80.1-116		%REC	256558	1	02/28/2018 01:10	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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-3-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 12:01:00 AM
Lab ID:	1802K99-016	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256558	1	02/28/2018 01:34	NP
Carbon disulfide	BRL	5.0		ug/L	256558	1	02/28/2018 01:34	NP
Ethylbenzene	BRL	5.0		ug/L	256558	1	02/28/2018 01:34	NP
Toluene	BRL	5.0		ug/L	256558	1	02/28/2018 01:34	NP
Xylenes, Total	BRL	5.0		ug/L	256558	1	02/28/2018 01:34	NP
Surr: 4-Bromofluorobenzene	88.5	68-127		%REC	256558	1	02/28/2018 01:34	NP
Surr: Dibromofluoromethane	108	84.4-122		%REC	256558	1	02/28/2018 01:34	NP
Surr: Toluene-d8	105	80.1-116		%REC	256558	1	02/28/2018 01:34	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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-4-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 12:01:00 AM
Lab ID:	1802K99-017	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256558	1	02/28/2018 01:59	NP
Carbon disulfide	BRL	5.0		ug/L	256558	1	02/28/2018 01:59	NP
Ethylbenzene	BRL	5.0		ug/L	256558	1	02/28/2018 01:59	NP
Toluene	BRL	5.0		ug/L	256558	1	02/28/2018 01:59	NP
Xylenes, Total	BRL	5.0		ug/L	256558	1	02/28/2018 01:59	NP
Surr: 4-Bromofluorobenzene	89.4	68-127		%REC	256558	1	02/28/2018 01:59	NP
Surr: Dibromofluoromethane	106	84.4-122		%REC	256558	1	02/28/2018 01:59	NP
Surr: Toluene-d8	104	80.1-116		%REC	256558	1	02/28/2018 01:59	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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-5-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 12:01:00 AM
Lab ID:	1802K99-018	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256558	1	02/28/2018 02:23	NP
Carbon disulfide	BRL	5.0		ug/L	256558	1	02/28/2018 02:23	NP
Ethylbenzene	BRL	5.0		ug/L	256558	1	02/28/2018 02:23	NP
Toluene	BRL	5.0		ug/L	256558	1	02/28/2018 02:23	NP
Xylenes, Total	BRL	5.0		ug/L	256558	1	02/28/2018 02:23	NP
Surr: 4-Bromofluorobenzene	87.7	68-127		%REC	256558	1	02/28/2018 02:23	NP
Surr: Dibromofluoromethane	107	84.4-122		%REC	256558	1	02/28/2018 02:23	NP
Surr: Toluene-d8	106	80.1-116		%REC	256558	1	02/28/2018 02:23	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:** 14-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-6-20180222-01
Project Name:	AGLC Macon	**Collection Date:**	2/22/2018 12:01:00 AM
Lab ID:	1802K99-019	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256558	1	02/28/2018 02:47	NP
Carbon disulfide	BRL	5.0		ug/L	256558	1	02/28/2018 02:47	NP
Ethylbenzene	BRL	5.0		ug/L	256558	1	02/28/2018 02:47	NP
Toluene	BRL	5.0		ug/L	256558	1	02/28/2018 02:47	NP
Xylenes, Total	BRL	5.0		ug/L	256558	1	02/28/2018 02:47	NP
Surr: 4-Bromofluorobenzene	88.4	68-127		%REC	256558	1	02/28/2018 02:47	NP
Surr: Dibromofluoromethane	109	84.4-122		%REC	256558	1	02/28/2018 02:47	NP
Surr: Toluene-d8	104	80.1-116		%REC	256558	1	02/28/2018 02:47	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

Pace Analytical Energy Services LLC
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March 8, 2018

Mirzeta Kararic
Analytical Environmental Services, Inc.
3785 Presidential Parkway
Suite 111
Atlanta, GA 30340

RE: **1802K99**

Pace Workorder: 25821

Dear Mirzeta Kararic:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, February 28, 2018. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Ruth Welsh 03/08/2018
Ruth.Welsh@pacelabs.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email PAESfeedback@pacelabs.com.

Total Number of Pages 22

CERTIFICATE OF ANALYSIS

Pace Analytical Energy Services LLC
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LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water
Accreditor:	West Virginia Department of Environmental Protection, Division of Water and Waste Management
Accreditation ID:	395
Scope:	Non-Potable Water
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	State of Virginia
Accreditation ID:	460201
Scope:	Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

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SAMPLE SUMMARY

Workorder: 25821 1802K99

Lab ID	Sample ID	Matrix	Date Collected	Date Received
258210001	MW-20S-20180221-01	Water	2/21/2018 15:30	2/28/2018 12:00
258210002	MW-12IR-20180222-01	Water	2/22/2018 08:55	2/28/2018 12:00
258210003	MW-12R-20180222-01	Water	2/22/2018 10:15	2/28/2018 12:00
258210004	MW-301D-20180222-01	Water	2/22/2018 09:50	2/28/2018 12:00
258210005	MW-207D-20180222-01	Water	2/22/2018 09:40	2/28/2018 12:00
258210006	AMW-2-20180222-01	Water	2/22/2018 10:15	2/28/2018 12:00
258210007	MW-400-20180222-01	Water	2/22/2018 10:40	2/28/2018 12:00
258210008	MW-302DD-20180222-01	Water	2/22/2018 12:00	2/28/2018 12:00
258210009	MW-102-20180222-01	Water	2/22/2018 12:10	2/28/2018 12:00
258210010	DUP-3-20180222-01	Water	2/22/2018 00:00	2/28/2018 12:00
258210011	DUP-4-20180222-01	Water	2/22/2018 00:00	2/28/2018 12:00
258210012	MW-204D-20180222-01	Water	2/22/2018 11:45	2/28/2018 12:00
258210013	MW-103-20180222-01	Water	2/22/2018 12:35	2/28/2018 12:00

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ANALYTICAL RESULTS

Workorder: 25821 1802K99

Lab ID: **258210001** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **MW-20S-20180221-01** Date Collected: 2/21/2018 15:30

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**92**	mg/l	5.0	0.32	1	3/5/2018 05:49	TD	n
Oxygen	**1.6**	mg/l	0.50	0.12	1	3/5/2018 05:49	TD	n
Nitrogen	**17**	mg/l	2.0	0.34	1	3/5/2018 05:49	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 05:49	TD	n

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ANALYTICAL RESULTS

Workorder: 25821 1802K99

Lab ID: **258210002** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **MW-12IR-20180222-01** Date Collected: 2/22/2018 08:55

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**62**	mg/l	5.0	0.32	1	3/5/2018 06:01	TD	n
Oxygen	**5.6**	mg/l	0.50	0.12	1	3/5/2018 06:01	TD	n
Nitrogen	**16**	mg/l	2.0	0.34	1	3/5/2018 06:01	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 06:01	TD	n

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ANALYTICAL RESULTS

Workorder: 25821 1802K99

Lab ID: **258210003** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **MW-12R-20180222-01** Date Collected: 2/22/2018 10:15

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**75**	mg/l	5.0	0.32	1	3/5/2018 06:14	TD	n
Oxygen	**5.3**	mg/l	0.50	0.12	1	3/5/2018 06:14	TD	n
Nitrogen	**16**	mg/l	2.0	0.34	1	3/5/2018 06:14	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 06:14	TD	n

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ANALYTICAL RESULTS

Workorder: 25821 1802K99

Lab ID: **258210004** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **MW-301D-20180222-01** Date Collected: 2/22/2018 09:50

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**130**	mg/l	5.0	0.32	1	3/5/2018 06:26	TD	n
Oxygen	**2.2**	mg/l	0.50	0.12	1	3/5/2018 06:26	TD	n
Nitrogen	**16**	mg/l	2.0	0.34	1	3/5/2018 06:26	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 06:26	TD	n

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ANALYTICAL RESULTS

Workorder: 25821 1802K99

Lab ID: **258210005** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **MW-207D-20180222-01** Date Collected: 2/22/2018 09:40

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**61**	mg/l	5.0	0.32	1	3/5/2018 06:38	TD	n
Oxygen	**6.6**	mg/l	0.50	0.12	1	3/5/2018 06:38	TD	n
Nitrogen	**21**	mg/l	2.0	0.34	1	3/5/2018 06:38	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 06:38	TD	n

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ANALYTICAL RESULTS

Workorder: 25821 1802K99

Lab ID: **258210006** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **AMW-2-20180222-01** Date Collected: 2/22/2018 10:15

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**62**	mg/l	5.0	0.32	1	3/5/2018 06:51	TD	n
Oxygen	**3.1**	mg/l	0.50	0.12	1	3/5/2018 06:51	TD	n
Nitrogen	**14**	mg/l	2.0	0.34	1	3/5/2018 06:51	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 06:51	TD	n

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ANALYTICAL RESULTS

Workorder: 25821 1802K99

Lab ID: **258210007** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **MW-400-20180222-01** Date Collected: 2/22/2018 10:40

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**210**	mg/l	5.0	0.32	1	3/5/2018 07:03	TD	n
Oxygen	**4.5**	mg/l	0.50	0.12	1	3/5/2018 07:03	TD	n
Nitrogen	**16**	mg/l	2.0	0.34	1	3/5/2018 07:03	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 07:03	TD	n

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ANALYTICAL RESULTS

Workorder: 25821 1802K99

Lab ID: **258210008** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **MW-302DD-20180222-01** Date Collected: 2/22/2018 12:00

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**11**	mg/l	5.0	0.32	1	3/5/2018 07:15	TD	n
Oxygen	**2.6**	mg/l	0.50	0.12	1	3/5/2018 07:15	TD	n
Nitrogen	**19**	mg/l	2.0	0.34	1	3/5/2018 07:15	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 07:15	TD	n

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ANALYTICAL RESULTS

Workorder: 25821 1802K99

Lab ID: **258210009** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **MW-102-20180222-01** Date Collected: 2/22/2018 12:10

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**110**	mg/l	5.0	0.32	1	3/5/2018 07:31	TD	n
Oxygen	**5.0**	mg/l	0.50	0.12	1	3/5/2018 07:31	TD	n
Nitrogen	**16**	mg/l	2.0	0.34	1	3/5/2018 07:31	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 07:31	TD	n

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ANALYTICAL RESULTS

Workorder: 25821 1802K99

Lab ID: **258210010** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **DUP-3-20180222-01** Date Collected: 2/22/2018 00:00

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**200**	mg/l	5.0	0.32	1	3/5/2018 07:43	TD	n
Oxygen	**3.7**	mg/l	0.50	0.12	1	3/5/2018 07:43	TD	n
Nitrogen	**17**	mg/l	2.0	0.34	1	3/5/2018 07:43	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 07:43	TD	n

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ANALYTICAL RESULTS

Workorder: 25821 1802K99

Lab ID: **258210011** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **DUP-4-20180222-01** Date Collected: 2/22/2018 00:00

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**140**	mg/l	5.0	0.32	1	3/5/2018 08:01	TD	n
Oxygen	**4.5**	mg/l	0.50	0.12	1	3/5/2018 08:01	TD	n
Nitrogen	**17**	mg/l	2.0	0.34	1	3/5/2018 08:01	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 08:01	TD	n

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ANALYTICAL RESULTS

Workorder: 25821 1802K99

Lab ID: **258210012** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **MW-204D-20180222-01** Date Collected: 2/22/2018 11:45

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**130**	mg/l	5.0	0.32	1	3/5/2018 08:13	TD	n
Oxygen	**5.9**	mg/l	0.50	0.12	1	3/5/2018 08:13	TD	n
Nitrogen	**15**	mg/l	2.0	0.34	1	3/5/2018 08:13	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 08:13	TD	n

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ANALYTICAL RESULTS

Workorder: 25821 1802K99

Lab ID: **258210013** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **MW-103-20180222-01** Date Collected: 2/22/2018 12:35

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**51**	mg/l	5.0	0.32	1	3/5/2018 08:26	TD	n
Oxygen	**5.3**	mg/l	0.50	0.12	1	3/5/2018 08:26	TD	n
Nitrogen	**18**	mg/l	2.0	0.34	1	3/5/2018 08:26	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 08:26	TD	n

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 25821 1802K99

DEFINITIONS/QUALIFIERS

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA

Workorder: 25821 1802K99

QC Batch: DISG/6694 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 258210001, 258210002, 258210003, 258210004, 258210005, 258210006, 258210007, 258210008, 258210009, 258210010, 258210011, 258210012, 258210013

METHOD BLANK: 54020

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Carbon Dioxide	mg/l	<5.0	5.0	n
Oxygen	mg/l	<0.50	0.50	n
Nitrogen	mg/l	<2.0	2.0	n
Carbon Monoxide	mg/l	<1.0	1.0	n

LABORATORY CONTROL SAMPLE & LCSD: 54022 54024

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Carbon Dioxide	mg/l	120	130	130	112	113	80-120	0.82	20	n
Oxygen	mg/l	11	11	11	95	97	80-120	2.1	20	n
Nitrogen	mg/l	140	120	120	89	90	80-120	1.1	20	n
Carbon Monoxide	mg/l	2	2.1	2.0	104	100	80-120	4.7	20	n

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 25821 1802K99

QUALITY CONTROL PARAMETER QUALIFIERS

n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

Pace Analytical Energy Services LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 25821 1802K99

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
258210001	MW-20S-20180221-01			AM20GAX	DISG/6694
258210002	MW-12IR-20180222-01			AM20GAX	DISG/6694
258210003	MW-12R-20180222-01			AM20GAX	DISG/6694
258210004	MW-301D-20180222-01			AM20GAX	DISG/6694
258210005	MW-207D-20180222-01			AM20GAX	DISG/6694
258210006	AMW-2-20180222-01			AM20GAX	DISG/6694
258210007	MW-400-20180222-01			AM20GAX	DISG/6694
258210008	MW-302DD-20180222-01			AM20GAX	DISG/6694
258210009	MW-102-20180222-01			AM20GAX	DISG/6694
258210010	DUP-3-20180222-01			AM20GAX	DISG/6694
258210011	DUP-4-20180222-01			AM20GAX	DISG/6694
258210012	MW-204D-20180222-01			AM20GAX	DISG/6694
258210013	MW-103-20180222-01			AM20GAX	DISG/6694

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

25821

CHAIN OF CUSTODY

Work Order: _____

Date: _____ Page _____ of _____

COMPANY: ↓ | ADDRESS: ↓

PHONE: | EMAIL:

SAMPLED BY: | SIGNATURE:

ANALYSIS REQUESTED: O2, N2, CO2, CO

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)	REMARKS	Number of Containers
1	MW-20S-20180221-01	2/21/18	15:30	X		GW	N		
2	MW-12IR-20180222-01	2/22/18	08:55	X		↓	N		
3	MW-12R-20180222-01	-11-	10:15	X			N		
4	MW-30ID-20180222-01	-11-	09:50	X			N		
5	MW-20ID-20180222-01	-11-	09:40	X			N		
6	AMW-2-20180222-01	-11-	10:15	X			N		
7	MW-400-20180222-01	-11-	10:40	X			N		
8	MW-30DD-20180222-01	-11-	12:00	X			N		
9	MW-102-20180222-01	-11-	12:10	X			N		
10	DUP-3-20180222-01	-11-	—	X			N		
11	DUP-4-20180222-01	-11-	—	X			N		
12	MW-20D-20180222-01	-11-	11:45	X			N		
13	MW-2103-20180222-01	-11-	12:35	X		↓	N		
14									

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Andrea Steele	2/26/18 5:00pm	1. [illegible]	2.28.18 12:00
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client FedEx UPS US mail courier Greyhound
other: _____

PROJECT INFORMATION
PROJECT NAME: 180ZK99
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: MEARLEY@AESATLANTA.COM
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

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

STATE PROGRAM (if any): _____
E-mail? ☐ Fax? ☐
DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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

Cooler Receipt Form

Client Name: AES Project: 1802K99 Lab Work Order: 25821

A. **Shipping/Container Information** (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other:_____ Air bill Present: (Yes) No

Tracking Number: 224931686583

Custody Seal on Cooler/Box Present: Yes (No) Seals Intact: Yes No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam Other:_____

Type of Ice: (Wet) Blue None Ice Intact: (Yes) Melted

Cooler Temperature: 1.4°C Radiation Screened: Yes (No) Chain of Custody Present: (Yes) No

Comments:_____

B. **Laboratory Assignment/Log-in** (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC			✓	
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected	✓			
Sufficient volume provided	✓			
PAES containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	
Headspace present?	✓			

Comments:_____

Cooler contents examined/received by: LG Date: 2.28.18

Project Manager Review: _____ Date: 2/28/18

Clear Save as

AES ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **ERM-Southeast** AES Work Order Number: **1802H80**

2. Carrier: FedEx ■ UPS ☐ USPS ☐ Client ☐ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	○	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	○	○		
5.	Custody seals intact on shipping container?	○	○	○		
6.	Temperature blanks present?	○	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	○	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	○	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	○	○	○		
10.	Sampler name and/or signature on COC?	○	○	○		
11.	Were all samples received within holding time?	○	○	○		
12.	TAT marked on the COC?	○	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 2.3 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). TD 2/20/18

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	○	○	○		
17.	Custody seals present on sample containers?	○	○	○		
18.	Custody seals intact on sample containers?	○	○	○		
19.	Do sample container labels match the COC?	○	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	○	○	○		
21.	Were all of the samples listed on the COC received?	○	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	○	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	○	○	○		
24.	Were samples received in appropriate containers?	○	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	○	○	○		
26.	Were trip blanks submitted?	○	○	○	listed on COC ■ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). MDP 2/20/18

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	○	○	○		
29.	Containers meet preservation guidelines?	○	○	○		
30.	Was pH adjusted at Sample Receipt?	○	○	○		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). MDP 2/20/18

Checklist 6.9.17 Rev 2

Locked

Analytical Environmental Services, Inc

Date: 14-Mar-18

Client: ERM-Southeast
Project Name: AGLC Macon
Lab Order: 1802K99

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802K99-001A	MW-205-20180221-01	2/21/2018 3:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:56:00 PM	02/27/2018
1802K99-001B	MW-205-20180221-01	2/21/2018 3:30:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/23/2018 11:00:00 AM	02/26/2018
1802K99-001B	MW-205-20180221-01	2/21/2018 3:30:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/23/2018 11:00:00 AM	02/28/2018
1802K99-001B	MW-205-20180221-01	2/21/2018 3:30:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/23/2018 9:00:00 AM	02/23/2018
1802K99-001D	MW-205-20180221-01	2/21/2018 3:30:00PM	Groundwater	GC Analysis of Gaseous Samples		2/26/2018 12:39:32 PM	02/26/2018
1802K99-001E	MW-205-20180221-01	2/21/2018 3:30:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00 AM	02/28/2018
1802K99-001E	MW-205-20180221-01	2/21/2018 3:30:00PM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00 PM	03/01/2018
1802K99-001F	MW-205-20180221-01	2/21/2018 3:30:00PM	Groundwater	Cyanide		2/27/2018 2:30:00 PM	02/27/2018
1802K99-001G	MW-205-20180221-01	2/21/2018 3:30:00PM	Groundwater	Ferrous Iron			02/22/2018
1802K99-001H	MW-205-20180221-01	2/21/2018 3:30:00PM	Groundwater	Sulfide by SW9030/9034		2/28/2018 10:50:00 AM	02/28/2018
1802K99-001I	MW-205-20180221-01	2/21/2018 3:30:00PM	Groundwater	ION SCAN			02/23/2018
1802K99-002A	MW-12IR-20180222-01	2/22/2018 8:55:00AM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:56:00 PM	02/28/2018
1802K99-002B	MW-12IR-20180222-01	2/22/2018 8:55:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/23/2018 11:00:00 AM	02/26/2018
1802K99-002B	MW-12IR-20180222-01	2/22/2018 8:55:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/24/2018 6:00:00 PM	02/26/2018
1802K99-002D	MW-12IR-20180222-01	2/22/2018 8:55:00AM	Groundwater	GC Analysis of Gaseous Samples		2/26/2018 12:39:32 PM	02/26/2018
1802K99-002E	MW-12IR-20180222-01	2/22/2018 8:55:00AM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00 AM	02/28/2018
1802K99-002E	MW-12IR-20180222-01	2/22/2018 8:55:00AM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00 PM	03/01/2018
1802K99-002F	MW-12IR-20180222-01	2/22/2018 8:55:00AM	Groundwater	Cyanide		2/27/2018 2:30:00 PM	02/27/2018
1802K99-002G	MW-12IR-20180222-01	2/22/2018 8:55:00AM	Groundwater	Ferrous Iron			02/22/2018
1802K99-002H	MW-12IR-20180222-01	2/22/2018 8:55:00AM	Groundwater	Sulfide by SW9030/9034		2/28/2018 10:50:00 AM	02/28/2018
1802K99-002I	MW-12IR-20180222-01	2/22/2018 8:55:00AM	Groundwater	ION SCAN			02/23/2018
1802K99-003A	MW-12R-20180222-01	2/22/2018 10:15:00AM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:56:00 PM	02/28/2018
1802K99-003B	MW-12R-20180222-01	2/22/2018 10:15:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/23/2018 11:00:00 AM	02/26/2018
1802K99-003B	MW-12R-20180222-01	2/22/2018 10:15:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/24/2018 6:00:00 PM	02/26/2018
1802K99-003D	MW-12R-20180222-01	2/22/2018 10:15:00AM	Groundwater	GC Analysis of Gaseous Samples		2/26/2018 12:39:32 PM	02/26/2018
1802K99-003E	MW-12R-20180222-01	2/22/2018 10:15:00AM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00 AM	02/28/2018
1802K99-003E	MW-12R-20180222-01	2/22/2018 10:15:00AM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00 PM	03/01/2018
1802K99-003F	MW-12R-20180222-01	2/22/2018 10:15:00AM	Groundwater	Cyanide		2/27/2018 2:30:00 PM	02/27/2018
1802K99-003G	MW-12R-20180222-01	2/22/2018 10:15:00AM	Groundwater	Ferrous Iron			02/22/2018

Analytical Environmental Services, Inc

Date: 14-Mar-18

Client: ERM-Southeast
Project Name: AGLC Macon
Lab Order: 1802K99

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802K99-003H	MW-12R-20180222-01	2/22/2018 10:15:00AM	Groundwater	Sulfide by SW9030/9034		2/28/2018 10:50:00 AM	02/28/2018
1802K99-003I	MW-12R-20180222-01	2/22/2018 10:15:00AM	Groundwater	ION SCAN			02/23/2018
1802K99-004A	MW-301D-20180222-01	2/22/2018 9:50:00AM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:56:00 PM	02/28/2018
1802K99-004B	MW-301D-20180222-01	2/22/2018 9:50:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/23/2018 11:00:00 AM	02/26/2018
1802K99-004B	MW-301D-20180222-01	2/22/2018 9:50:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/24/2018 6:00:00 PM	02/26/2018
1802K99-004D	MW-301D-20180222-01	2/22/2018 9:50:00AM	Groundwater	GC Analysis of Gaseous Samples		2/26/2018 12:39:32 PM	02/26/2018
1802K99-004E	MW-301D-20180222-01	2/22/2018 9:50:00AM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00 AM	02/28/2018
1802K99-004E	MW-301D-20180222-01	2/22/2018 9:50:00AM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00 PM	03/01/2018
1802K99-004F	MW-301D-20180222-01	2/22/2018 9:50:00AM	Groundwater	Cyanide		2/27/2018 2:30:00 PM	02/27/2018
1802K99-004G	MW-301D-20180222-01	2/22/2018 9:50:00AM	Groundwater	Ferrous Iron			02/22/2018
1802K99-004H	MW-301D-20180222-01	2/22/2018 9:50:00AM	Groundwater	Sulfide by SW9030/9034		2/28/2018 10:50:00 AM	02/28/2018
1802K99-004I	MW-301D-20180222-01	2/22/2018 9:50:00AM	Groundwater	ION SCAN			02/23/2018
1802K99-005A	MW-207D-20180222-01	2/22/2018 9:40:00AM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:56:00 PM	02/28/2018
1802K99-005B	MW-207D-20180222-01	2/22/2018 9:40:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/23/2018 11:00:00 AM	02/26/2018
1802K99-005B	MW-207D-20180222-01	2/22/2018 9:40:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/24/2018 6:00:00 PM	02/26/2018
1802K99-005D	MW-207D-20180222-01	2/22/2018 9:40:00AM	Groundwater	GC Analysis of Gaseous Samples		2/26/2018 12:39:32 PM	02/26/2018
1802K99-005E	MW-207D-20180222-01	2/22/2018 9:40:00AM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00 AM	02/28/2018
1802K99-005E	MW-207D-20180222-01	2/22/2018 9:40:00AM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00 PM	03/01/2018
1802K99-005F	MW-207D-20180222-01	2/22/2018 9:40:00AM	Groundwater	Cyanide		2/27/2018 2:30:00 PM	02/27/2018
1802K99-005G	MW-207D-20180222-01	2/22/2018 9:40:00AM	Groundwater	Ferrous Iron			02/22/2018
1802K99-005H	MW-207D-20180222-01	2/22/2018 9:40:00AM	Groundwater	Sulfide by SW9030/9034		2/28/2018 10:50:00 AM	02/28/2018
1802K99-005I	MW-207D-20180222-01	2/22/2018 9:40:00AM	Groundwater	ION SCAN			02/23/2018
1802K99-006A	AMW-2-20180222-01	2/22/2018 10:15:00AM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:56:00 PM	02/28/2018
1802K99-006B	AMW-2-20180222-01	2/22/2018 10:15:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/23/2018 11:00:00 AM	02/26/2018
1802K99-006B	AMW-2-20180222-01	2/22/2018 10:15:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/24/2018 6:00:00 PM	02/26/2018
1802K99-006D	AMW-2-20180222-01	2/22/2018 10:15:00AM	Groundwater	GC Analysis of Gaseous Samples		2/27/2018 10:17:27 AM	02/27/2018
1802K99-006E	AMW-2-20180222-01	2/22/2018 10:15:00AM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00 AM	02/28/2018
1802K99-006E	AMW-2-20180222-01	2/22/2018 10:15:00AM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00 PM	03/01/2018
1802K99-006F	AMW-2-20180222-01	2/22/2018 10:15:00AM	Groundwater	Cyanide		2/27/2018 2:30:00 PM	02/27/2018

Analytical Environmental Services, Inc

Date: 14-Mar-18

Client: ERM-Southeast
Project Name: AGLC Macon
Lab Order: 1802K99

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802K99-006G	AMW-2-20180222-01	2/22/2018 10:15:00AM	Groundwater	Ferrous Iron			02/22/2018
1802K99-006H	AMW-2-20180222-01	2/22/2018 10:15:00AM	Groundwater	Sulfide by SW9030/9034		2/28/2018 10:50:00 AM	02/28/2018
1802K99-006I	AMW-2-20180222-01	2/22/2018 10:15:00AM	Groundwater	ION SCAN			02/24/2018
1802K99-007A	MW-400-20180222-01	2/22/2018 10:40:00AM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:56:00 PM	02/28/2018
1802K99-007B	MW-400-20180222-01	2/22/2018 10:40:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/23/2018 11:00:00 AM	02/26/2018
1802K99-007B	MW-400-20180222-01	2/22/2018 10:40:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/24/2018 6:00:00 PM	02/26/2018
1802K99-007D	MW-400-20180222-01	2/22/2018 10:40:00AM	Groundwater	GC Analysis of Gaseous Samples		2/27/2018 10:17:27 AM	02/27/2018
1802K99-007E	MW-400-20180222-01	2/22/2018 10:40:00AM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00 AM	02/28/2018
1802K99-007E	MW-400-20180222-01	2/22/2018 10:40:00AM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00 PM	03/01/2018
1802K99-007F	MW-400-20180222-01	2/22/2018 10:40:00AM	Groundwater	Cyanide		2/27/2018 2:30:00 PM	02/27/2018
1802K99-007G	MW-400-20180222-01	2/22/2018 10:40:00AM	Groundwater	Ferrous Iron			02/22/2018
1802K99-007H	MW-400-20180222-01	2/22/2018 10:40:00AM	Groundwater	Sulfide by SW9030/9034		2/28/2018 10:50:00 AM	02/28/2018
1802K99-007I	MW-400-20180222-01	2/22/2018 10:40:00AM	Groundwater	ION SCAN			02/24/2018
1802K99-008A	MW-302DD-20180222-01	2/22/2018 12:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:56:00 PM	02/28/2018
1802K99-008B	MW-302DD-20180222-01	2/22/2018 12:00:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/23/2018 11:00:00 AM	02/26/2018
1802K99-008B	MW-302DD-20180222-01	2/22/2018 12:00:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/23/2018 11:00:00 AM	02/28/2018
1802K99-008B	MW-302DD-20180222-01	2/22/2018 12:00:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/24/2018 6:00:00 PM	02/26/2018
1802K99-008D	MW-302DD-20180222-01	2/22/2018 12:00:00PM	Groundwater	GC Analysis of Gaseous Samples		2/27/2018 10:17:27 AM	02/27/2018
1802K99-008E	MW-302DD-20180222-01	2/22/2018 12:00:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00 AM	02/28/2018
1802K99-008E	MW-302DD-20180222-01	2/22/2018 12:00:00PM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00 PM	03/01/2018
1802K99-008F	MW-302DD-20180222-01	2/22/2018 12:00:00PM	Groundwater	Cyanide		2/27/2018 2:30:00 PM	02/27/2018
1802K99-008G	MW-302DD-20180222-01	2/22/2018 12:00:00PM	Groundwater	Ferrous Iron			02/22/2018
1802K99-008H	MW-302DD-20180222-01	2/22/2018 12:00:00PM	Groundwater	Sulfide by SW9030/9034		2/28/2018 10:50:00 AM	02/28/2018
1802K99-008I	MW-302DD-20180222-01	2/22/2018 12:00:00PM	Groundwater	ION SCAN			02/24/2018
1802K99-009A	MW-102-20180222-01	2/22/2018 12:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:56:00 PM	02/28/2018
1802K99-009B	MW-102-20180222-01	2/22/2018 12:10:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/23/2018 11:00:00 AM	02/26/2018
1802K99-009B	MW-102-20180222-01	2/22/2018 12:10:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/24/2018 6:00:00 PM	02/26/2018
1802K99-009D	MW-102-20180222-01	2/22/2018 12:10:00PM	Groundwater	GC Analysis of Gaseous Samples		2/27/2018 10:17:27 AM	02/27/2018
1802K99-009E	MW-102-20180222-01	2/22/2018 12:10:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00 AM	02/28/2018

Analytical Environmental Services, Inc

Date: 14-Mar-18

Client: ERM-Southeast
Project Name: AGLC Macon
Lab Order: 1802K99

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802K99-009E	MW-102-20180222-01	2/22/2018 12:10:00PM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00 PM	03/01/2018
1802K99-009F	MW-102-20180222-01	2/22/2018 12:10:00PM	Groundwater	Cyanide		2/28/2018 1:30:00 PM	02/28/2018
1802K99-009G	MW-102-20180222-01	2/22/2018 12:10:00PM	Groundwater	Ferrous Iron			02/22/2018
1802K99-009H	MW-102-20180222-01	2/22/2018 12:10:00PM	Groundwater	Sulfide by SW9030/9034		2/28/2018 2:00:00 PM	02/28/2018
1802K99-009I	MW-102-20180222-01	2/22/2018 12:10:00PM	Groundwater	ION SCAN			02/24/2018
1802K99-010A	DUP-3-20180222-01	2/22/2018 12:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:56:00 PM	02/28/2018
1802K99-010B	DUP-3-20180222-01	2/22/2018 12:00:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00 AM	02/27/2018
1802K99-010B	DUP-3-20180222-01	2/22/2018 12:00:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/24/2018 6:00:00 PM	02/26/2018
1802K99-010D	DUP-3-20180222-01	2/22/2018 12:00:00AM	Groundwater	GC Analysis of Gaseous Samples		2/27/2018 10:17:27 AM	02/27/2018
1802K99-010E	DUP-3-20180222-01	2/22/2018 12:00:00AM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00 AM	02/28/2018
1802K99-010E	DUP-3-20180222-01	2/22/2018 12:00:00AM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00 PM	03/01/2018
1802K99-010F	DUP-3-20180222-01	2/22/2018 12:00:00AM	Groundwater	Cyanide		2/28/2018 1:30:00 PM	02/28/2018
1802K99-010G	DUP-3-20180222-01	2/22/2018 12:00:00AM	Groundwater	Ferrous Iron			02/22/2018
1802K99-010H	DUP-3-20180222-01	2/22/2018 12:00:00AM	Groundwater	Sulfide by SW9030/9034		2/28/2018 2:00:00 PM	02/28/2018
1802K99-010I	DUP-3-20180222-01	2/22/2018 12:00:00AM	Groundwater	ION SCAN			02/24/2018
1802K99-011A	DUP-4-20180222-01	2/22/2018 12:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:56:00 PM	02/28/2018
1802K99-011B	DUP-4-20180222-01	2/22/2018 12:00:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00 AM	02/27/2018
1802K99-011B	DUP-4-20180222-01	2/22/2018 12:00:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00 AM	02/28/2018
1802K99-011B	DUP-4-20180222-01	2/22/2018 12:00:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/24/2018 6:00:00 PM	02/27/2018
1802K99-011D	DUP-4-20180222-01	2/22/2018 12:00:00AM	Groundwater	GC Analysis of Gaseous Samples		2/27/2018 10:17:27 AM	02/27/2018
1802K99-011E	DUP-4-20180222-01	2/22/2018 12:00:00AM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00 AM	02/28/2018
1802K99-011E	DUP-4-20180222-01	2/22/2018 12:00:00AM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00 PM	03/01/2018
1802K99-011F	DUP-4-20180222-01	2/22/2018 12:00:00AM	Groundwater	Cyanide		2/28/2018 1:30:00 PM	02/28/2018
1802K99-011G	DUP-4-20180222-01	2/22/2018 12:00:00AM	Groundwater	Ferrous Iron			02/22/2018
1802K99-011H	DUP-4-20180222-01	2/22/2018 12:00:00AM	Groundwater	Sulfide by SW9030/9034		2/28/2018 2:00:00 PM	02/28/2018
1802K99-011I	DUP-4-20180222-01	2/22/2018 12:00:00AM	Groundwater	ION SCAN			02/24/2018
1802K99-012A	MW-204D-20180222-01	2/22/2018 11:45:00AM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:56:00 PM	02/28/2018
1802K99-012B	MW-204D-20180222-01	2/22/2018 11:45:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00 AM	02/27/2018
1802K99-012B	MW-204D-20180222-01	2/22/2018 11:45:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00 AM	02/28/2018

Analytical Environmental Services, Inc

Date: 14-Mar-18

Client: ERM-Southeast
Project Name: AGLC Macon
Lab Order: 1802K99

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802K99-012B	MW-204D-20180222-01	2/22/2018 11:45:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/24/2018 6:00:00 PM	02/27/2018
1802K99-012D	MW-204D-20180222-01	2/22/2018 11:45:00AM	Groundwater	GC Analysis of Gaseous Samples		2/27/2018 10:17:27 AM	02/27/2018
1802K99-012E	MW-204D-20180222-01	2/22/2018 11:45:00AM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00 AM	02/28/2018
1802K99-012E	MW-204D-20180222-01	2/22/2018 11:45:00AM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00 PM	03/01/2018
1802K99-012F	MW-204D-20180222-01	2/22/2018 11:45:00AM	Groundwater	Cyanide		2/28/2018 1:30:00 PM	02/28/2018
1802K99-012G	MW-204D-20180222-01	2/22/2018 11:45:00AM	Groundwater	Ferrous Iron			02/22/2018
1802K99-012H	MW-204D-20180222-01	2/22/2018 11:45:00AM	Groundwater	Sulfide by SW9030/9034		2/28/2018 2:00:00 PM	02/28/2018
1802K99-012I	MW-204D-20180222-01	2/22/2018 11:45:00AM	Groundwater	ION SCAN			02/24/2018
1802K99-013A	MW-103-20180222-01	2/22/2018 12:35:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:56:00 PM	02/28/2018
1802K99-013B	MW-103-20180222-01	2/22/2018 12:35:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00 AM	02/27/2018
1802K99-013B	MW-103-20180222-01	2/22/2018 12:35:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/24/2018 6:00:00 PM	02/27/2018
1802K99-013D	MW-103-20180222-01	2/22/2018 12:35:00PM	Groundwater	GC Analysis of Gaseous Samples		2/27/2018 10:17:27 AM	02/27/2018
1802K99-013E	MW-103-20180222-01	2/22/2018 12:35:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 11:15:00 AM	02/28/2018
1802K99-013E	MW-103-20180222-01	2/22/2018 12:35:00PM	Groundwater	TOTAL MERCURY		2/27/2018 1:42:00 PM	02/27/2018
1802K99-013F	MW-103-20180222-01	2/22/2018 12:35:00PM	Groundwater	Cyanide		2/28/2018 1:30:00 PM	02/28/2018
1802K99-013G	MW-103-20180222-01	2/22/2018 12:35:00PM	Groundwater	Ferrous Iron			02/22/2018
1802K99-013H	MW-103-20180222-01	2/22/2018 12:35:00PM	Groundwater	Sulfide by SW9030/9034		2/28/2018 3:15:00 PM	02/28/2018
1802K99-013I	MW-103-20180222-01	2/22/2018 12:35:00PM	Groundwater	ION SCAN			02/24/2018
1802K99-014A	TB-1-20180222-01	2/22/2018 12:01:00AM	Aqueous	Volatile Organic Compounds by GC/MS		2/27/2018 5:56:00 PM	02/28/2018
1802K99-015A	TB-2-20180222-01	2/22/2018 12:01:01AM	Aqueous	Volatile Organic Compounds by GC/MS		2/27/2018 5:56:00 PM	02/28/2018
1802K99-016A	TB-3-20180222-01	2/22/2018 12:01:00AM	Aqueous	Volatile Organic Compounds by GC/MS		2/27/2018 5:56:00 PM	02/28/2018
1802K99-017A	TB-4-20180222-01	2/22/2018 12:01:00AM	Aqueous	Volatile Organic Compounds by GC/MS		2/27/2018 5:56:00 PM	02/28/2018
1802K99-018A	TB-5-20180222-01	2/22/2018 12:01:00AM	Aqueous	Volatile Organic Compounds by GC/MS		2/27/2018 5:56:00 PM	02/28/2018
1802K99-019A	TB-6-20180222-01	2/22/2018 12:01:00AM	Aqueous	Volatile Organic Compounds by GC/MS		2/27/2018 5:56:00 PM	02/28/2018

Client: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: 256350

Sample ID: **MB-256350**	Client ID:		Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363818**
SampleType: **MBLK**	TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**		BatchID: **256350**	Analysis Date: **02/23/2018**	Seq No: **8041779**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,4-Dimethylphenol	BRL	10									
2-Methylphenol	BRL	10									
3,4-Methylphenol	BRL	10									
Phenol	BRL	10									
Surr: 2,4,6-Tribromophenol	99.05	0	100.0		99.0	51.4	138				
Surr: 2-Fluorobiphenyl	38.78	0	50.00		77.6	44.6	119				
Surr: 2-Fluorophenol	58.62	0	100.0		58.6	27.2	120				
Surr: 4-Terphenyl-d14	54.36	0	50.00		109	47.1	136				
Surr: Nitrobenzene-d5	43.38	0	50.00		86.8	40.7	119				
Surr: Phenol-d5	39.78	0	100.0		39.8	18.1	120				

Sample ID: **LCS-256350**	Client ID:		Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363818**
SampleType: **LCS**	TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**		BatchID: **256350**	Analysis Date: **02/23/2018**	Seq No: **8041780**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	37.20	10	100.0		37.2	26.4	120				
Surr: 2,4,6-Tribromophenol	102.6	0	100.0		103	51.4	138				
Surr: 2-Fluorobiphenyl	43.66	0	50.00		87.3	44.6	119				
Surr: 2-Fluorophenol	56.75	0	100.0		56.8	27.2	120				
Surr: 4-Terphenyl-d14	58.04	0	50.00		116	47.1	136				
Surr: Nitrobenzene-d5	44.87	0	50.00		89.7	40.7	119				
Surr: Phenol-d5	37.43	0	100.0		37.4	18.1	120				

Sample ID: **1802K30-002BMS**	Client ID:		Units: **ug/L**	Prep Date: **02/23/2018**	Run No: **363818**
SampleType: **MS**	TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**		BatchID: **256350**	Analysis Date: **02/24/2018**	Seq No: **8041817**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	48.59	10	100.0		48.6	31.5	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: 256350

Sample ID: **1802K30-002BMS** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363818**
SampleType: **MS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256350** Analysis Date: **02/24/2018** Seq No: **8041817**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 2,4,6-Tribromophenol	96.09	0	100.0		96.1	51.4	138				
Surr: 2-Fluorobiphenyl	41.02	0	50.00		82.0	44.6	119				
Surr: 2-Fluorophenol	63.41	0	100.0		63.4	27.2	120				
Surr: 4-Terphenyl-d14	54.12	0	50.00		108	47.1	136				
Surr: Nitrobenzene-d5	37.97	0	50.00		75.9	40.7	119				
Surr: Phenol-d5	52.75	0	100.0		52.8	18.1	120				

Sample ID: **1802K30-002BMSD** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363818**
SampleType: **MSD** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256350** Analysis Date: **02/24/2018** Seq No: **8041818**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	51.59	10	100.0		51.6	31.5	120	48.59	5.99	28.5	
Surr: 2,4,6-Tribromophenol	91.81	0	100.0		91.8	51.4	138	96.09	0	0	
Surr: 2-Fluorobiphenyl	40.08	0	50.00		80.2	44.6	119	41.02	0	0	
Surr: 2-Fluorophenol	65.71	0	100.0		65.7	27.2	120	63.41	0	0	
Surr: 4-Terphenyl-d14	51.75	0	50.00		104	47.1	136	54.12	0	0	
Surr: Nitrobenzene-d5	38.90	0	50.00		77.8	40.7	119	37.97	0	0	
Surr: Phenol-d5	52.94	0	100.0		52.9	18.1	120	52.75	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: 256355

Sample ID: **MB-256355** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363819**
SampleType: **MBLK** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256355** Analysis Date: **02/26/2018** Seq No: **8042065**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	BRL	0.50									
Acenaphthylene	BRL	1.0									
Anthracene	BRL	0.050									
Benz(a)anthracene	BRL	0.050									
Benzo(a)pyrene	BRL	0.050									
Benzo(b)fluoranthene	BRL	0.10									
Benzo(g,h,i)perylene	BRL	0.10									
Benzo(k)fluoranthene	BRL	0.050									
Chrysene	BRL	0.050									
Dibenz(a,h)anthracene	BRL	0.10									
Fluoranthene	BRL	0.10									
Fluorene	BRL	0.10									
Indeno(1,2,3-cd)pyrene	BRL	0.050									
Naphthalene	BRL	0.50									
Phenanthrene	BRL	0.050									
Pyrene	BRL	0.050									
Surr: 4-Terphenyl-d14	1.800	0	2.000		90.0	59.9	128				

Sample ID: **LCS-256355** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363819**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256355** Analysis Date: **02/26/2018** Seq No: **8042066**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.715	0.50	2.000		85.7	64.7	120				
Acenaphthylene	1.751	1.0	2.000		87.5	63.2	120				
Anthracene	1.785	0.050	2.000		89.2	69.3	125				
Benz(a)anthracene	1.972	0.050	2.000		98.6	71.1	141				
Benzo(a)pyrene	1.993	0.050	2.000		99.7	67.2	131				
Benzo(b)fluoranthene	1.888	0.10	2.000		94.4	66.1	134				

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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: 256355

Sample ID: **LCS-256355** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363819**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256355** Analysis Date: **02/26/2018** Seq No: **8042066**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(g,h,i)perylene	1.568	0.10	2.000		78.4	66.1	128				
Benzo(k)fluoranthene	1.982	0.050	2.000		99.1	67.7	133				
Chrysene	2.163	0.050	2.000		108	71.3	137				
Dibenz(a,h)anthracene	1.442	0.10	2.000		72.1	59.7	125				
Fluoranthene	1.885	0.10	2.000		94.3	72.3	129				
Fluorene	1.736	0.10	2.000		86.8	69.2	120				
Indeno(1,2,3-cd)pyrene	1.585	0.050	2.000		79.2	66.4	127				
Naphthalene	1.466	0.50	2.000		73.3	56.8	120				
Phenanthrene	1.700	0.050	2.000		85.0	70.9	120				
Pyrene	2.159	0.050	2.000		108	68.4	138				
Surr: 4-Terphenyl-d14	2.000	0	2.000		100.0	59.9	128				

Sample ID: **1802K30-002BMS** Client ID: Units: **ug/L** Prep Date: **02/23/2018** Run No: **363819**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256355** Analysis Date: **02/26/2018** Seq No: **8044377**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.434	0.50	2.000		71.7	61.4	120				
Acenaphthylene	1.468	1.0	2.000		73.4	63.9	120				
Anthracene	1.460	0.050	2.000		73.0	65.3	120				
Benz(a)anthracene	1.637	0.050	2.000		81.8	76.7	124				
Benzo(a)pyrene	1.647	0.050	2.000		82.3	58.5	120				
Benzo(b)fluoranthene	1.469	0.10	2.000		73.4	52.6	121				
Benzo(g,h,i)perylene	1.297	0.10	2.000		64.9	44.2	120				
Benzo(k)fluoranthene	1.604	0.050	2.000		80.2	59	120				
Chrysene	1.785	0.050	2.000		89.2	65	122				
Dibenz(a,h)anthracene	1.183	0.10	2.000		59.2	38.2	120				
Fluoranthene	1.570	0.10	2.000		78.5	71.7	118				
Fluorene	1.465	0.10	2.000		73.3	65.6	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: 256355

Sample ID: **1802K30-002BMS** Client ID:
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D**
Units: **ug/L** Prep Date: **02/23/2018** Run No: **363819**
BatchID: **256355** Analysis Date: **02/26/2018** Seq No: **8044377**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Indeno(1,2,3-cd)pyrene	1.261	0.050	2.000		63.0	46.6	120				
Naphthalene	1.316	0.50	2.000		65.8	57.3	120				
Phenanthrene	1.387	0.050	2.000		69.3	65.6	120				
Pyrene	1.776	0.050	2.000		88.8	69	121				
Surr: 4-Terphenyl-d14	1.659	0	2.000		83.0	59.9	128				

Sample ID: **1802K30-002BMSD** Client ID:
SampleType: **MSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D**
Units: **ug/L** Prep Date: **02/23/2018** Run No: **363819**
BatchID: **256355** Analysis Date: **02/26/2018** Seq No: **8044378**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.709	0.50	2.000		85.5	61.4	120	1.434	17.5	24.4	
Acenaphthylene	1.734	1.0	2.000		86.7	63.9	120	1.468	16.6	27.9	
Anthracene	1.660	0.050	2.000		83.0	65.3	120	1.460	12.8	26.3	
Benz(a)anthracene	1.885	0.050	2.000		94.3	76.7	124	1.637	14.1	25	
Benzo(a)pyrene	1.889	0.050	2.000		94.5	58.5	120	1.647	13.7	23.5	
Benzo(b)fluoranthene	1.733	0.10	2.000		86.7	52.6	121	1.469	16.5	24	
Benzo(g,h,i)perylene	1.526	0.10	2.000		76.3	44.2	120	1.297	16.2	32.1	
Benzo(k)fluoranthene	1.853	0.050	2.000		92.7	59	120	1.604	14.4	19.6	
Chrysene	2.053	0.050	2.000		103	65	122	1.785	14.0	23	
Dibenz(a,h)anthracene	1.468	0.10	2.000		73.4	38.2	120	1.183	21.5	31.7	
Fluoranthene	1.846	0.10	2.000		92.3	71.7	118	1.570	16.2	23	
Fluorene	1.731	0.10	2.000		86.6	65.6	120	1.465	16.7	25	
Indeno(1,2,3-cd)pyrene	1.517	0.050	2.000		75.8	46.6	120	1.261	18.4	32.4	
Naphthalene	1.573	0.50	2.000		78.6	57.3	120	1.316	17.7	27.2	
Phenanthrene	1.644	0.050	2.000		82.2	65.6	120	1.387	17.0	23.5	
Pyrene	2.085	0.050	2.000		104	69	121	1.776	16.0	23.8	
Surr: 4-Terphenyl-d14	1.873	0	2.000		93.7	59.9	128	1.659	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: 256391

Sample ID: **MB-256391** Client ID: Units: **ug/L** Prep Date: **02/24/2018** Run No: **363923**
SampleType: **MBLK** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256391** Analysis Date: **02/26/2018** Seq No: **8044966**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,4-Dimethylphenol	BRL	10									
2-Methylphenol	BRL	10									
3,4-Methylphenol	BRL	10									
Phenol	BRL	10									
Surr: 2,4,6-Tribromophenol	67.17	0	100.0		67.2	51.4	138				
Surr: 2-Fluorobiphenyl	34.25	0	50.00		68.5	44.6	119				
Surr: 2-Fluorophenol	36.78	0	100.0		36.8	27.2	120				
Surr: 4-Terphenyl-d14	42.29	0	50.00		84.6	47.1	136				
Surr: Nitrobenzene-d5	38.08	0	50.00		76.2	40.7	119				
Surr: Phenol-d5	27.45	0	100.0		27.4	18.1	120				

Sample ID: **LCS-256391** Client ID: Units: **ug/L** Prep Date: **02/24/2018** Run No: **363923**
SampleType: **LCS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256391** Analysis Date: **02/26/2018** Seq No: **8044967**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	32.54	10	100.0		32.5	26.4	120				
Surr: 2,4,6-Tribromophenol	84.49	0	100.0		84.5	51.4	138				
Surr: 2-Fluorobiphenyl	42.18	0	50.00		84.4	44.6	119				
Surr: 2-Fluorophenol	41.21	0	100.0		41.2	27.2	120				
Surr: 4-Terphenyl-d14	56.26	0	50.00		113	47.1	136				
Surr: Nitrobenzene-d5	41.46	0	50.00		82.9	40.7	119				
Surr: Phenol-d5	32.04	0	100.0		32.0	18.1	120				

Sample ID: **1802K33-001BMS** Client ID: Units: **ug/L** Prep Date: **02/24/2018** Run No: **363923**
SampleType: **MS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256391** Analysis Date: **02/26/2018** Seq No: **8044969**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	59.28	10	100.0		59.3	31.5	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: 256391

Sample ID: **1802K33-001BMS** Client ID: Units: **ug/L** Prep Date: **02/24/2018** Run No: **363923**
SampleType: **MS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256391** Analysis Date: **02/26/2018** Seq No: **8044969**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 2,4,6-Tribromophenol	83.21	0	100.0		83.2	51.4	138				
Surr: 2-Fluorobiphenyl	36.15	0	50.00		72.3	44.6	119				
Surr: 2-Fluorophenol	61.40	0	100.0		61.4	27.2	120				
Surr: 4-Terphenyl-d14	51.41	0	50.00		103	47.1	136				
Surr: Nitrobenzene-d5	42.08	0	50.00		84.2	40.7	119				
Surr: Phenol-d5	57.72	0	100.0		57.7	18.1	120				

Sample ID: **1802K33-001BMSD** Client ID: Units: **ug/L** Prep Date: **02/24/2018** Run No: **363923**
SampleType: **MSD** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256391** Analysis Date: **02/26/2018** Seq No: **8044970**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	49.01	10	100.0		49.0	31.5	120	59.28	19.0	28.5	
Surr: 2,4,6-Tribromophenol	82.43	0	100.0		82.4	51.4	138	83.21	0	0	
Surr: 2-Fluorobiphenyl	39.68	0	50.00		79.4	44.6	119	36.15	0	0	
Surr: 2-Fluorophenol	54.95	0	100.0		55.0	27.2	120	61.40	0	0	
Surr: 4-Terphenyl-d14	50.93	0	50.00		102	47.1	136	51.41	0	0	
Surr: Nitrobenzene-d5	39.80	0	50.00		79.6	40.7	119	42.08	0	0	
Surr: Phenol-d5	49.64	0	100.0		49.6	18.1	120	57.72	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: 256410

Sample ID: **MB-256410**	Client ID:		Units: **ug/L**	Prep Date: **02/26/2018**	Run No: **364040**
SampleType: **MBLK**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**		BatchID: **256410**	Analysis Date: **02/27/2018**	Seq No: **8045666**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	BRL	0.50									
Acenaphthylene	BRL	1.0									
Anthracene	BRL	0.050									
Benz(a)anthracene	BRL	0.050									
Benzo(a)pyrene	BRL	0.050									
Benzo(b)fluoranthene	BRL	0.10									
Benzo(g,h,i)perylene	BRL	0.10									
Benzo(k)fluoranthene	BRL	0.050									
Chrysene	BRL	0.050									
Dibenz(a,h)anthracene	BRL	0.10									
Fluoranthene	BRL	0.10									
Fluorene	BRL	0.10									
Indeno(1,2,3-cd)pyrene	BRL	0.050									
Naphthalene	BRL	0.50									
Phenanthrene	BRL	0.050									
Pyrene	BRL	0.050									
Surr: 4-Terphenyl-d14	1.540	0	2.000		77.0	59.9	128				

Sample ID: **LCS-256410**	Client ID:		Units: **ug/L**	Prep Date: **02/26/2018**	Run No: **364040**
SampleType: **LCS**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**		BatchID: **256410**	Analysis Date: **02/27/2018**	Seq No: **8045667**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.768	0.50	2.000		88.4	64.7	120				
Acenaphthylene	1.825	1.0	2.000		91.2	63.2	120				
Anthracene	1.962	0.050	2.000		98.1	69.3	125				
Benz(a)anthracene	2.099	0.050	2.000		105	71.1	141				
Benzo(a)pyrene	2.012	0.050	2.000		101	67.2	131				
Benzo(b)fluoranthene	2.025	0.10	2.000		101	66.1	134				

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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: 256410

Sample ID: **LCS-256410** Client ID: Units: **ug/L** Prep Date: **02/26/2018** Run No: **364040**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256410** Analysis Date: **02/27/2018** Seq No: **8045667**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(g,h,i)perylene	1.893	0.10	2.000		94.7	66.1	128				
Benzo(k)fluoranthene	1.674	0.050	2.000		83.7	67.7	133				
Chrysene	1.939	0.050	2.000		97.0	71.3	137				
Dibenz(a,h)anthracene	1.862	0.10	2.000		93.1	59.7	125				
Fluoranthene	1.928	0.10	2.000		96.4	72.3	129				
Fluorene	1.976	0.10	2.000		98.8	69.2	120				
Indeno(1,2,3-cd)pyrene	1.972	0.050	2.000		98.6	66.4	127				
Naphthalene	1.655	0.50	2.000		82.7	56.8	120				
Phenanthrene	1.815	0.050	2.000		90.7	70.9	120				
Pyrene	2.001	0.050	2.000		100	68.4	138				
Surr: 4-Terphenyl-d14	2.318	0	2.000		116	59.9	128				

Sample ID: **1802K33-001BMS** Client ID: Units: **ug/L** Prep Date: **02/26/2018** Run No: **364040**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256410** Analysis Date: **02/27/2018** Seq No: **8045669**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.715	0.50	2.000	1.325	19.5	61.4	120				S
Acenaphthylene	BRL	1.0	2.000	0.2342	23.6	63.9	120				S
Anthracene	0.6195	0.050	2.000	0.1266	24.6	65.3	120				S
Benz(a)anthracene	0.6018	0.050	2.000		30.1	76.7	124				S
Benzo(a)pyrene	0.5077	0.050	2.000		25.4	58.5	120				S
Benzo(b)fluoranthene	0.5167	0.10	2.000		25.8	52.6	121				S
Benzo(g,h,i)perylene	0.4576	0.10	2.000		22.9	44.2	120				S
Benzo(k)fluoranthene	0.3880	0.050	2.000		19.4	59	120				S
Chrysene	0.4964	0.050	2.000		24.8	65	122				S
Dibenz(a,h)anthracene	0.4416	0.10	2.000		22.1	38.2	120				S
Fluoranthene	0.5587	0.10	2.000		27.9	71.7	118				S
Fluorene	0.7478	0.10	2.000	0.2399	25.4	65.6	120				S

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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: 256410

Sample ID: **1802K33-001BMS** Client ID:
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**
Units: **ug/L** Prep Date: **02/26/2018** Run No: **364040**
BatchID: **256410** Analysis Date: **02/27/2018** Seq No: **8045669**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Indeno(1,2,3-cd)pyrene	0.4621	0.050	2.000		23.1	46.6	120				S
Naphthalene	0.7957	0.50	2.000	0.06525	36.5	57.3	120				S
Phenanthrene	0.5065	0.050	2.000		25.3	65.6	120				S
Pyrene	0.7673	0.050	2.000	0.2614	25.3	69	121				S
Surr: 4-Terphenyl-d14	0.6217	0	2.000		31.1	59.9	128				S

Sample ID: **1802K33-001BMSD** Client ID:
SampleType: **MSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**
Units: **ug/L** Prep Date: **02/26/2018** Run No: **364040**
BatchID: **256410** Analysis Date: **02/27/2018** Seq No: **8045670**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	2.423	0.50	2.000	1.325	54.9	61.4	120	1.715	34.2	24.4	SR
Acenaphthylene	1.015	1.0	2.000	0.2342	39.0	63.9	120	0.7056	36.0	27.9	SR
Anthracene	0.9040	0.050	2.000	0.1266	38.9	65.3	120	0.6195	37.4	26.3	SR
Benz(a)anthracene	0.8962	0.050	2.000		44.8	76.7	124	0.6018	39.3	25	SR
Benzo(a)pyrene	0.7523	0.050	2.000		37.6	58.5	120	0.5077	38.8	23.5	SR
Benzo(b)fluoranthene	0.7664	0.10	2.000		38.3	52.6	121	0.5167	38.9	24	SR
Benzo(g,h,i)perylene	0.6599	0.10	2.000		33.0	44.2	120	0.4576	36.2	32.1	SR
Benzo(k)fluoranthene	0.5740	0.050	2.000		28.7	59	120	0.3880	38.7	19.6	SR
Chrysene	0.7364	0.050	2.000		36.8	65	122	0.4964	38.9	23	SR
Dibenz(a,h)anthracene	0.6713	0.10	2.000		33.6	38.2	120	0.4416	41.3	31.7	SR
Fluoranthene	0.8215	0.10	2.000		41.1	71.7	118	0.5587	38.1	23	SR
Fluorene	1.050	0.10	2.000	0.2399	40.5	65.6	120	0.7478	33.6	25	SR
Indeno(1,2,3-cd)pyrene	0.6581	0.050	2.000		32.9	46.6	120	0.4621	35.0	32.4	SR
Naphthalene	0.7515	0.50	2.000	0.06525	34.3	57.3	120	0.7957	5.72	27.2	S
Phenanthrene	0.7322	0.050	2.000		36.6	65.6	120	0.5065	36.4	23.5	SR
Pyrene	1.106	0.050	2.000	0.2614	42.2	69	121	0.7673	36.1	23.8	SR
Surr: 4-Terphenyl-d14	0.8916	0	2.000		44.6	59.9	128	0.6217	0	0	S

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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: 256426

Sample ID: **MB-256426** Client ID: Units: **mg/L** Prep Date: **02/26/2018** Run No: **364129**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010D** BatchID: **256426** Analysis Date: **02/27/2018** Seq No: **8048038**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	0.0200									
Arsenic	BRL	0.0500									
Barium	BRL	0.0200									
Beryllium	BRL	0.0100									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Copper	BRL	0.0100									
Iron	BRL	0.100									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Zinc	BRL	0.0200									

Sample ID: **LCS-256426** Client ID: Units: **mg/L** Prep Date: **02/26/2018** Run No: **364129**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010D** BatchID: **256426** Analysis Date: **02/27/2018** Seq No: **8048039**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9358	0.0200	1.000		93.6	80	120				
Arsenic	0.9335	0.0500	1.000		93.4	80	120				
Barium	0.9397	0.0200	1.000		94.0	80	120				
Beryllium	0.8974	0.0100	1.000		89.7	80	120				
Cadmium	0.9314	0.0050	1.000		93.1	80	120				
Chromium	0.9066	0.0100	1.000		90.7	80	120				
Copper	0.8931	0.0100	1.000		89.3	80	120				
Iron	8.860	0.100	10.00		88.6	80	120				
Lead	0.8929	0.0100	1.000		89.3	80	120				
Nickel	0.9296	0.0200	1.000		93.0	80	120				
Zinc	0.9299	0.0200	1.000		93.0	80	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: 256426

Sample ID: **1802K33-001EMS** Client ID:
SampleType: **MS** TestCode: **METALS, TOTAL SW6010D**
Units: **mg/L** Prep Date: **02/26/2018** Run No: **364129**
BatchID: **256426** Analysis Date: **02/27/2018** Seq No: **8048043**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9450	0.0200	1.000		94.5	75	125				
Arsenic	0.9508	0.0500	1.000	0.01433	93.6	75	125				
Barium	1.023	0.0200	1.000	0.1079	91.5	75	125				
Beryllium	0.8829	0.0100	1.000		88.3	75	125				
Cadmium	0.9254	0.0050	1.000		92.5	75	125				
Chromium	0.8934	0.0100	1.000		89.3	75	125				
Copper	0.9075	0.0100	1.000		90.8	75	125				
Iron	20.07	0.100	10.00	11.36	87.1	75	125				
Lead	0.8748	0.0100	1.000		87.5	75	125				
Nickel	0.9044	0.0200	1.000		90.4	75	125				
Zinc	0.9080	0.0200	1.000	0.01014	89.8	75	125				

Sample ID: **1802K33-001EMSD** Client ID:
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010D**
Units: **mg/L** Prep Date: **02/26/2018** Run No: **364129**
BatchID: **256426** Analysis Date: **02/27/2018** Seq No: **8048045**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9565	0.0200	1.000		95.6	75	125	0.9450	1.21	20	
Arsenic	0.9451	0.0500	1.000	0.01433	93.1	75	125	0.9508	0.596	20	
Barium	1.018	0.0200	1.000	0.1079	91.0	75	125	1.023	0.487	20	
Beryllium	0.8854	0.0100	1.000		88.5	75	125	0.8829	0.282	20	
Cadmium	0.9195	0.0050	1.000		92.0	75	125	0.9254	0.638	20	
Chromium	0.8885	0.0100	1.000		88.9	75	125	0.8934	0.554	20	
Copper	0.9007	0.0100	1.000		90.1	75	125	0.9075	0.752	20	
Iron	19.93	0.100	10.00	11.36	85.7	75	125	20.07	0.701	20	
Lead	0.8588	0.0100	1.000		85.9	75	125	0.8748	1.84	20	
Nickel	0.9060	0.0200	1.000		90.6	75	125	0.9044	0.169	20	
Zinc	0.9074	0.0200	1.000	0.01014	89.7	75	125	0.9080	0.069	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: 256463

Sample ID: **MB-256463**	Client ID:				Units: **ug/L**		Prep Date: **02/26/2018**		Run No: **363983**	
SampleType: **MBLK**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256463**		Analysis Date: **02/26/2018**		Seq No: **8044004**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	BRL	4.0									

Sample ID: **LCS-256463**	Client ID:				Units: **ug/L**		Prep Date: **02/26/2018**		Run No: **363983**	
SampleType: **LCS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256463**		Analysis Date: **02/26/2018**		Seq No: **8044005**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	110.6	4.0	200.0		55.3	45.1	115				

Sample ID: **LCSD-256463**	Client ID:				Units: **ug/L**		Prep Date: **02/26/2018**		Run No: **363983**	
SampleType: **LCSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256463**		Analysis Date: **02/26/2018**		Seq No: **8044006**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	104.7	4.0	200.0		52.3	45.1	115	110.6	5.47	20	

Sample ID: **1802K30-002DMS**	Client ID:				Units: **ug/L**		Prep Date: **02/26/2018**		Run No: **363983**	
SampleType: **MS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256463**		Analysis Date: **02/26/2018**		Seq No: **8044010**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	140.4	4.0	200.0	40.40	50.0	42	115				

Sample ID: **1802K30-002DMSD**	Client ID:				Units: **ug/L**		Prep Date: **02/26/2018**		Run No: **363983**	
SampleType: **MSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256463**		Analysis Date: **02/26/2018**		Seq No: **8044011**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	135.5	4.0	200.0	40.40	47.5	42	115	140.4	3.55	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: 256493

Sample ID: **MB-256493**	Client ID:			Units: **mg/L**	Prep Date: **02/27/2018**	Run No: **364027**
SampleType: **MBLK**	TestCode: **Mercury, Total SW7470A**			BatchID: **256493**	Analysis Date: **02/27/2018**	Seq No: **8046156**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020									

Sample ID: **LCS-256493**	Client ID:			Units: **mg/L**	Prep Date: **02/27/2018**	Run No: **364027**
SampleType: **LCS**	TestCode: **Mercury, Total SW7470A**			BatchID: **256493**	Analysis Date: **02/27/2018**	Seq No: **8046157**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004011	0.00020	0.0040		100	80	120				

Sample ID: **1802K30-002EMS**	Client ID:			Units: **mg/L**	Prep Date: **02/27/2018**	Run No: **364027**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**			BatchID: **256493**	Analysis Date: **02/27/2018**	Seq No: **8046161**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003881	0.00020	0.0040		97.0	70	130				

Sample ID: **1802K30-002EMSD**	Client ID:			Units: **mg/L**	Prep Date: **02/27/2018**	Run No: **364027**
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**			BatchID: **256493**	Analysis Date: **02/27/2018**	Seq No: **8046162**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003766	0.00020	0.0040		94.2	70	130	0.003881	3.00	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: 256509

Sample ID: **MB-256509**	Client ID:				Units: **ug/L**		Prep Date: **02/27/2018**		Run No: **364102**
SampleType: **MBLK**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256509**		Analysis Date: **02/27/2018**		Seq No: **8047220**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	BRL	4.0									

Sample ID: **LCS-256509**	Client ID:				Units: **ug/L**		Prep Date: **02/27/2018**		Run No: **364102**
SampleType: **LCS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256509**		Analysis Date: **02/27/2018**		Seq No: **8047221**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	122.8	4.0	200.0		61.4	45.1	115				

Sample ID: **LCSD-256509**	Client ID:				Units: **ug/L**		Prep Date: **02/27/2018**		Run No: **364102**
SampleType: **LCSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256509**		Analysis Date: **02/27/2018**		Seq No: **8047222**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	117.1	4.0	200.0		58.5	45.1	115	122.8	4.76	20	

Sample ID: **1802K33-001DMS**	Client ID:				Units: **ug/L**		Prep Date: **02/27/2018**		Run No: **364102**
SampleType: **MS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256509**		Analysis Date: **02/27/2018**		Seq No: **8047225**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	282.1	4.0	200.0	159.9	61.1	42	115				

Sample ID: **1802K33-001DMSD**	Client ID:				Units: **ug/L**		Prep Date: **02/27/2018**		Run No: **364102**
SampleType: **MSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256509**		Analysis Date: **02/27/2018**		Seq No: **8047226**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	286.1	4.0	200.0	159.9	63.1	42	115	282.1	1.39	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: 256541

Sample ID: **MB-256541**	Client ID:				Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364052**
SampleType: **MBLK**	TestCode: **Cyanide SW9014**				BatchID: **256541**		Analysis Date: **02/27/2018**		Seq No: **8045709**

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

Sample ID: **LCS-256541**	Client ID:				Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364052**
SampleType: **LCS**	TestCode: **Cyanide SW9014**				BatchID: **256541**		Analysis Date: **02/27/2018**		Seq No: **8045710**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2690	0.010	0.2500		108	85	115				

Sample ID: **1802K33-001FMS**	Client ID:				Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364052**
SampleType: **MS**	TestCode: **Cyanide SW9014**				BatchID: **256541**		Analysis Date: **02/27/2018**		Seq No: **8045742**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.3220	0.010	0.2500	0.05950	105	70	130				

Sample ID: **1802K33-001FMSD**	Client ID:				Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364052**
SampleType: **MSD**	TestCode: **Cyanide SW9014**				BatchID: **256541**		Analysis Date: **02/27/2018**		Seq No: **8045743**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.3240	0.010	0.2500	0.05950	106	70	130	0.3220	0.619	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: 256558

Sample ID: **MB-256558**	Client ID:		Units: **ug/L**	Prep Date: **02/27/2018**	Run No: **364038**
SampleType: **MBLK**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **256558**	Analysis Date: **02/27/2018**	Seq No: **8046382**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	5.0									
Carbon disulfide	BRL	5.0									
Ethylbenzene	BRL	5.0									
Toluene	BRL	5.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	44.44	0	50.00		88.9	68	127				
Surr: Dibromofluoromethane	52.13	0	50.00		104	84.4	122				
Surr: Toluene-d8	51.13	0	50.00		102	80.1	116				

Sample ID: **LCS-256558**	Client ID:		Units: **ug/L**	Prep Date: **02/27/2018**	Run No: **364038**
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **256558**	Analysis Date: **02/27/2018**	Seq No: **8046384**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	50.06	5.0	50.00		100	73.7	126				
Toluene	50.59	5.0	50.00		101	76.8	125				
Surr: 4-Bromofluorobenzene	44.45	0	50.00		88.9	68	127				
Surr: Dibromofluoromethane	52.18	0	50.00		104	84.4	122				
Surr: Toluene-d8	52.65	0	50.00		105	80.1	116				

Sample ID: **1802K99-001AMS**	Client ID: **MW-205-20180221-01**		Units: **ug/L**	Prep Date: **02/27/2018**	Run No: **364038**
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **256558**	Analysis Date: **02/27/2018**	Seq No: **8046389**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	82.22	5.0	50.00	30.65	103	66.1	137				
Toluene	53.75	5.0	50.00	4.060	99.4	63.8	141				
Surr: 4-Bromofluorobenzene	47.33	0	50.00		94.7	68	127				
Surr: Dibromofluoromethane	51.54	0	50.00		103	84.4	122				
Surr: Toluene-d8	51.09	0	50.00		102	80.1	116				

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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: 256558

Sample ID: **1802K99-001AMSD** Client ID: **MW-205-20180221-01** Units: **ug/L** Prep Date: **02/27/2018** Run No: **364038**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256558** Analysis Date: **02/27/2018** Seq No: **8046390**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	80.56	5.0	50.00	30.65	99.8	66.1	137	82.22	2.04	20	
Toluene	52.79	5.0	50.00	4.060	97.5	63.8	141	53.75	1.80	20	
Surr: 4-Bromofluorobenzene	47.02	0	50.00		94.0	68	127	47.33	0	0	
Surr: Dibromofluoromethane	52.61	0	50.00		105	84.4	122	51.54	0	0	
Surr: Toluene-d8	50.92	0	50.00		102	80.1	116	51.09	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: 256591

Sample ID: **MB-256591**	Client ID:				Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364097**
SampleType: **MBLK**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **256591**		Analysis Date: **02/27/2018**		Seq No: **8047123**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	2.00									

Sample ID: **LCS-256591**	Client ID:				Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364097**
SampleType: **LCS**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **256591**		Analysis Date: **02/27/2018**		Seq No: **8047124**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	296.0	2.00	296.0		100	70	130				

Sample ID: **1802K33-001HMS**	Client ID:				Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364097**
SampleType: **MS**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **256591**		Analysis Date: **02/27/2018**		Seq No: **8047146**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	15.40	2.00	14.80		104	62.8	125				

Sample ID: **1802K33-001HMSD**	Client ID:				Units: **mg/L**		Prep Date: **02/27/2018**		Run No: **364097**
SampleType: **MSD**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **256591**		Analysis Date: **02/27/2018**		Seq No: **8047147**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	15.60	2.00	14.80		105	62.8	125	15.40	1.29	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: 256592

Sample ID: **MB-256592**	Client ID:			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364227**
SampleType: **MBLK**	TestCode: **Mercury, Total SW7470A**			BatchID: **256592**	Analysis Date: **03/01/2018**	Seq No: **8050447**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020									

Sample ID: **LCS-256592**	Client ID:			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364227**
SampleType: **LCS**	TestCode: **Mercury, Total SW7470A**			BatchID: **256592**	Analysis Date: **03/01/2018**	Seq No: **8050448**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003896	0.00020	0.0040		97.4	80	120				

Sample ID: **1802K33-002EMS**	Client ID:			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364227**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**			BatchID: **256592**	Analysis Date: **03/01/2018**	Seq No: **8050450**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003737	0.00020	0.0040		93.4	70	130				

Sample ID: **1802K33-002EMSD**	Client ID:			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364227**
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**			BatchID: **256592**	Analysis Date: **03/01/2018**	Seq No: **8050451**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004099	0.00020	0.0040		102	70	130	0.003737	9.24	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: 256614

Sample ID: **MB-256614**	Client ID:			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364154**
SampleType: **MBLK**	TestCode: **Cyanide SW9014**			BatchID: **256614**	Analysis Date: **02/28/2018**	Seq No: **8048583**

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

Sample ID: **LCS-256614**	Client ID:			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364154**
SampleType: **LCS**	TestCode: **Cyanide SW9014**			BatchID: **256614**	Analysis Date: **02/28/2018**	Seq No: **8048584**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2640	0.010	0.2500		106	85	115				

Sample ID: **1802K99-013FMS**	Client ID: **MW-103-20180222-01**			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364154**
SampleType: **MS**	TestCode: **Cyanide SW9014**			BatchID: **256614**	Analysis Date: **02/28/2018**	Seq No: **8048593**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.1440	0.010	0.2500		57.6	70	130				S

Sample ID: **1802K99-013FMSD**	Client ID: **MW-103-20180222-01**			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364154**
SampleType: **MSD**	TestCode: **Cyanide SW9014**			BatchID: **256614**	Analysis Date: **02/28/2018**	Seq No: **8048594**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.1620	0.010	0.2500		64.8	70	130	0.1440	11.8	20	S

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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: 256629

Sample ID: **MB-256629**	Client ID:		Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364168**
SampleType: **MBLK**	TestCode: **Sulfide by SW9030B/9034**		BatchID: **256629**	Analysis Date: **02/28/2018**	Seq No: **8048944**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	2.00									

Sample ID: **LCS-256629**	Client ID:		Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364168**
SampleType: **LCS**	TestCode: **Sulfide by SW9030B/9034**		BatchID: **256629**	Analysis Date: **02/28/2018**	Seq No: **8048945**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	396.0	2.00	396.0		100	70	130				

Sample ID: **1802K99-009HMS**	Client ID: **MW-102-20180222-01**		Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364168**
SampleType: **MS**	TestCode: **Sulfide by SW9030B/9034**		BatchID: **256629**	Analysis Date: **02/28/2018**	Seq No: **8048953**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	17.40	2.00	19.80		87.9	62.8	125				

Sample ID: **1802K99-009HMSD**	Client ID: **MW-102-20180222-01**		Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364168**
SampleType: **MSD**	TestCode: **Sulfide by SW9030B/9034**		BatchID: **256629**	Analysis Date: **02/28/2018**	Seq No: **8048954**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	17.80	2.00	19.80		89.9	62.8	125	17.40	2.27	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: R363918

Sample ID: **MB-R363918**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363918**	
SampleType: **MBLK**	TestCode: **Ferrous Iron**					BatchID: **R363918**		Analysis Date: **02/22/2018**		Seq No: **8042242**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R363918**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363918**	
SampleType: **LCS**	TestCode: **Ferrous Iron**					BatchID: **R363918**		Analysis Date: **02/22/2018**		Seq No: **8042243**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.4860	0.100	0.5000		97.2	85	115				

Sample ID: **1802K33-001GMS**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363918**	
SampleType: **MS**	TestCode: **Ferrous Iron**					BatchID: **R363918**		Analysis Date: **02/22/2018**		Seq No: **8042260**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	11.62	1.00	5.000	6.400	104	80	120				

Sample ID: **1802K33-001GMSD**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363918**	
SampleType: **MSD**	TestCode: **Ferrous Iron**					BatchID: **R363918**		Analysis Date: **02/22/2018**		Seq No: **8042261**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	11.73	1.00	5.000	6.400	107	80	120	11.62	0.942	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: R363962

Sample ID: **MB-R363962**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363962**	
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**				BatchID: **R363962**		Analysis Date: **02/22/2018**		Seq No: **8043487**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R363962**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363962**	
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**				BatchID: **R363962**		Analysis Date: **02/22/2018**		Seq No: **8043486**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.868	0.25	5.000		97.4	90	110				
Sulfate	24.53	1.0	25.00		98.1	90	110				

Sample ID: **1802K30-002IMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363962**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R363962**		Analysis Date: **02/23/2018**		Seq No: **8043519**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	48.05	2.5	50.00		96.1	90	110				
Sulfate	229.5	10	250.0	3.740	90.3	90	110				

Sample ID: **1802K33-001IMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363962**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R363962**		Analysis Date: **02/23/2018**		Seq No: **8043513**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	49.21	2.5	50.00	0.5841	97.2	90	110				
Sulfate	454.8	10	250.0	315.9	55.5	90	110				S

Sample ID: **1802K33-001IMSD**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363962**	
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**				BatchID: **R363962**		Analysis Date: **02/23/2018**		Seq No: **8043514**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	49.77	2.5	50.00	0.5841	98.4	90	110	49.21	1.14	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: R363962

Sample ID: **1802K33-001IMSD** Client ID:
SampleType: **MSD** TestCode: **ION SCAN SW9056A**
Units: **mg/L** Prep Date: Run No: **363962**
BatchID: **R363962** Analysis Date: **02/23/2018** Seq No: **8043514**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	450.5	10	250.0	315.9	53.8	90	110	454.8	0.947	20	S

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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: R363997

Sample ID: **MB-R363997**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363997**	
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**				BatchID: **R363997**		Analysis Date: **02/23/2018**		Seq No: **8044475**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R363997**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363997**	
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**				BatchID: **R363997**		Analysis Date: **02/23/2018**		Seq No: **8044474**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.247	0.25	5.000		105	90	110				
Sulfate	24.29	1.0	25.00		97.1	90	110				

Sample ID: **1802M41-001EMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363997**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R363997**		Analysis Date: **02/24/2018**		Seq No: **8044528**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	50.73	2.5	50.00		101	90	110				
Sulfate	258.2	10	250.0	1.557	103	90	110				

Sample ID: **1802M41-002EMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363997**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R363997**		Analysis Date: **02/24/2018**		Seq No: **8044532**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	55.30	2.5	50.00		111	90	110				S
Sulfate	363.5	10	250.0	116.9	98.6	90	110				

Sample ID: **1802M41-001EMSD**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363997**	
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**				BatchID: **R363997**		Analysis Date: **02/24/2018**		Seq No: **8044529**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	50.91	2.5	50.00		102	90	110	50.73	0.345	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: R363997

Sample ID: **1802M41-001EMSD** Client ID:
SampleType: **MSD** TestCode: **ION SCAN SW9056A**
Units: **mg/L** Prep Date: Run No: **363997**
BatchID: **R363997** Analysis Date: **02/24/2018** Seq No: **8044529**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	257.0	10	250.0	1.557	102	90	110	258.2	0.465	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: R364010

Sample ID: **MB-R364010**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **364010**	
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**				BatchID: **R364010**		Analysis Date: **02/24/2018**		Seq No: **8044908**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R364010**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **364010**	
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**				BatchID: **R364010**		Analysis Date: **02/24/2018**		Seq No: **8044907**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.381	0.25	5.000		108	90	110				
Sulfate	24.46	1.0	25.00		97.8	90	110				

Sample ID: **1802M41-003EMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **364010**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R364010**		Analysis Date: **02/24/2018**		Seq No: **8044931**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	53.38	2.5	50.00	0.9641	105	90	110				
Sulfate	293.5	10	250.0	47.51	98.4	90	110				

Sample ID: **1802M41-004EMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **364010**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R364010**		Analysis Date: **02/24/2018**		Seq No: **8044935**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	50.61	2.5	50.00		101	90	110				
Sulfate	285.6	10	250.0	33.67	101	90	110				

Sample ID: **1802M41-003EMSD**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **364010**	
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**				BatchID: **R364010**		Analysis Date: **02/24/2018**		Seq No: **8044932**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	53.76	2.5	50.00	0.9641	106	90	110	53.38	0.717	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: ERM-Southeast
Project Name: AGLC Macon
Workorder: 1802K99

ANALYTICAL QC SUMMARY REPORT

BatchID: R364010

Sample ID: **1802M41-003EMSD** Client ID:
SampleType: **MSD** TestCode: **ION SCAN SW9056A**
Units: **mg/L** Prep Date: Run No: **364010**
BatchID: **R364010** Analysis Date: **02/24/2018** Seq No: **8044932**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	292.0	10	250.0	47.51	97.8	90	110	293.5	0.517	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.

March 13, 2018

Adria Reimer
ERM-Southeast

3200 Windy Hill Rd
Atlanta GA 30339

RE: AGL - Macon

Dear Adria Reimer: Order No: 1802L36

Analytical Environmental Services, Inc. received 12 samples on February 23, 2018 2:03 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's accreditations are as follows:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.
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.

Sincerely,

Mirzeta Kararic

Mirzeta Kararic

Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

AES

CHAIN OF CUSTODY

Work Order: 1802L36

Date: 2/12/18 Page 1 of 2

COMPANY: ERM

ADDRESS: 3200 Windy Hill Rd SE Atlanta, GA 30339

PHONE: 678-486-2700

EMAIL: Adria.Reimer@ERM.com

SAMPLED BY: H. Beaugh / M. Thomas / T. Payne / A. Ellis / B. Gantt

SIGNATURE:

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	SVOC	VOC	Dissolved Gases	Methane	Total Cyanide	Sulfide	Total Metals + Mercury	Nitrate/Sulfate	Ferrous Iron					REMARKS	Number of Containers
							PRESERVATION (see codes)														
							I	H+I	H+I	O	SH	Zn/SH	N+I	I	I						
1	MW-110D-20180222-01	2/22/18	1420	X		GW	2	2	2	2	1	1	1	1	1						13
2	MW-106-20180222-01		1420																		
3	MW-401-20180222-01		1435																		
4	MW-107-20180222-01		1635																		
5	MW-300D-20180222-01		1609																		
6	MW-200DR-20180222-01		1555																		
7	MW-15-20180222-01		1635																		
8	MW-104-20180222-01		1435																		
9	MW-104I-20180222-01		1615																		
10	~~MW-300D-20180222-01~~		1609																		
11	MW-12DRR-20180223-01	2/23/18	09:55	X		GW	2	2	2	2	1	1	1	1	1						13
12	TB-1-20180223-01	—	—	X		W		1													1
13	TB-2-20180223-01	—	—	X		W		1													1
14	TB-3-20180223-01	—	—	X		W		1													1

ANALYSIS REQUESTED

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1.	2/23/18 11:20	1.	2-23-18 11:20
2.	2-23-18 2:03	2.	2/23/18 2:03
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT: / / VIA:

IN: / / VIA:

client FedEx UPS US mail courier Greyhound

other: _____

PROJECT INFORMATION

PROJECT NAME: AGL-Macon

PROJECT #: 0366660

SITE ADDRESS: 137 Mulberry St. Macon, GA

SEND REPORT TO: Adria.Reimer@erm.com

INVOICE TO:

(IF DIFFERENT FROM ABOVE)

QUOTE #: _____ PO#: _____

RECEIPT

Total # of Containers: 33

Turnaround Time (TAT) Request

- [X] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush (auth req.)
- [ ] Other _____

STATE PROGRAM (if any): GA

E-mail? [X] Fax? [ ]

DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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.
3080 Presidential Drive Atlanta, GA 30340-3704
AES
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1802636

Date: 2/23/18 Page 2 of 2

COMPANY: ERM

ADDRESS: 3200 Windy Hill Rd Atlanta, GA 30339

PHONE: 678-486-2700

EMAIL:

SAMPLED BY: –

SIGNATURE: –

ANALYSIS REQUESTED: 8260 VOC

PRESERVATION (see codes): H+I

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	8260 VOC	REMARKS	Number of Containers
1	TB-4-20180223-01	–	–	X		W	✓		2
2	TB-5-20180223-01	–	–	|		|	✓		2
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. [signature]	2/23/18 1130	1. [signature]	2-23-18 11:30
2. [signature]	2-23-18 2:03	2. [signature]	2/23/18 203pm
3.		3.	

PROJECT INFORMATION

PROJECT NAME: AGL Macon

PROJECT #: 0366660

SITE ADDRESS: 137 Mulberry St Macon, GA

SEND REPORT TO: Adrian Rimmer Lewis ~2018

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers: 4

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

STATE PROGRAM (if any): GA

E-mail? [x] Fax? [ ]

DATA PACKAGE: I ○ II ○ III ○ IV ○

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client FedEx UPS US mail (courier) Greyhound
other: ________

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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

Client: ERM-Southeast
Project: AGL - Macon
Lab ID: 1802L36

Case Narrative

Sample Receiving Non-conformance:

Trip blanks 1802L36-012, -014 and -015 were listed on the Chain of Custody but not present. The laboratory proceeded with analysis of the trip blanks received.

At the request of Andrea Brazell 1802L36-011 and -013 were updated to a collection date/time of 02-23-18@00:01.
At the reqeust of Andrea Brazell 1802L36-002 was updated to a collection time of 14:20.

Ferrous Iron by SM3500Fe-B:

Method 3500Fe-B as listed in Standard Methods for the Examination of Water and Wastewater 22nd Edition is applicable for analyzing Ferrous Iron in the field. Samples were analyzed in the laboratory which is a deviation from the method.

PAH Analysis by Method 8270D-SIM:

Matrix spike and matrix spike duplicate analyses were not performed with Batch 256409 due to insufficient sample volume.

Analytical Environmental Services, Inc **Date:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-110D-20180222-01
Project Name:	AGL - Macon	**Collection Date:**	2/22/2018 2:20:00 PM
Lab ID:	1802L36-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	32	5.0		ug/L	256698	1	03/02/2018 00:55	NP
Carbon disulfide	BRL	5.0		ug/L	256698	1	03/02/2018 00:55	NP
Ethylbenzene	250	50		ug/L	256698	10	03/02/2018 10:35	NP
Toluene	BRL	5.0		ug/L	256698	1	03/02/2018 00:55	NP
Xylenes, Total	6.8	5.0		ug/L	256698	1	03/02/2018 00:55	NP
Surr: 4-Bromofluorobenzene	86.2	68-127		%REC	256698	10	03/02/2018 10:35	NP
Surr: 4-Bromofluorobenzene	89.7	68-127		%REC	256698	1	03/02/2018 00:55	NP
Surr: Dibromofluoromethane	106	84.4-122		%REC	256698	10	03/02/2018 10:35	NP
Surr: Dibromofluoromethane	108	84.4-122		%REC	256698	1	03/02/2018 00:55	NP
Surr: Toluene-d8	100	80.1-116		%REC	256698	10	03/02/2018 10:35	NP
Surr: Toluene-d8	106	80.1-116		%REC	256698	1	03/02/2018 00:55	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256629	1	03/01/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	1300	500		ug/L	256410	1000	02/28/2018 21:53	YH
Acenaphthylene	2.7	1.0		ug/L	256410	1	02/27/2018 14:29	YH
Acenaphthene	67	50		ug/L	256410	100	02/28/2018 15:13	YH
Fluorene	21	10		ug/L	256410	100	02/28/2018 15:13	YH
Phenanthrene	31	5.0		ug/L	256410	100	02/28/2018 15:13	YH
Anthracene	6.4	0.050		ug/L	256410	1	02/27/2018 14:29	YH
Fluoranthene	5.1	0.10		ug/L	256410	1	02/27/2018 14:29	YH
Pyrene	7.9	0.050		ug/L	256410	1	02/27/2018 14:29	YH
Benz(a)anthracene	0.22	0.050		ug/L	256410	1	02/27/2018 14:29	YH
Chrysene	0.21	0.050		ug/L	256410	1	02/27/2018 14:29	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 14:29	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256410	1	02/27/2018 14:29	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 14:29	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 14:29	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256410	1	02/27/2018 14:29	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256410	1	02/27/2018 14:29	YH
Surr: 4-Terphenyl-d14	107	59.9-128		%REC	256410	1	02/27/2018 14:29	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256409	1	02/27/2018 11:46	YH
2-Methylphenol	BRL	10		ug/L	256409	1	02/27/2018 11:46	YH
3,4-Methylphenol	BRL	10		ug/L	256409	1	02/27/2018 11:46	YH
Phenol	BRL	10		ug/L	256409	1	02/27/2018 11:46	YH
Surr: 2,4,6-Tribromophenol	68.6	51.4-138		%REC	256409	1	02/27/2018 11:46	YH
Surr: 2-Fluorobiphenyl	80.4	44.6-119		%REC	256409	1	02/27/2018 11:46	YH

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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-110D-20180222-01
Project Name:	AGL - Macon	**Collection Date:**	2/22/2018 2:20:00 PM
Lab ID:	1802L36-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: 2-Fluorophenol	61	27.2-120		%REC	256409	1	02/27/2018 11:46	YH
Surr: 4-Terphenyl-d14	87.4	47.1-136		%REC	256409	1	02/27/2018 11:46	YH
Surr: Nitrobenzene-d5	82.8	40.7-119		%REC	256409	1	02/27/2018 11:46	YH
Surr: Phenol-d5	51.9	18.1-120		%REC	256409	1	02/27/2018 11:46	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256648	1	03/01/2018 05:33	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R364010	1	02/24/2018 07:02	MP
Sulfate	BRL	1.0		mg/L	R364010	1	02/24/2018 07:02	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	720	40		ug/L	256509	10	02/27/2018 13:55	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	9.93	1.00		mg/L	R363981	10	02/23/2018 14:18	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	256614	1	03/01/2018 10:30	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256427	1	02/27/2018 20:18	IO
Arsenic	BRL	0.0500		mg/L	256427	1	02/27/2018 20:18	IO
Barium	2.80	0.0200		mg/L	256427	1	02/27/2018 20:18	IO
Beryllium	BRL	0.0100		mg/L	256427	1	02/27/2018 20:18	IO
Cadmium	BRL	0.0050		mg/L	256427	1	02/27/2018 20:18	IO
Chromium	BRL	0.0100		mg/L	256427	1	02/27/2018 20:18	IO
Copper	BRL	0.0100		mg/L	256427	1	02/27/2018 20:18	IO
Iron	9.22	0.100		mg/L	256427	1	02/27/2018 20:18	IO
Lead	BRL	0.0100		mg/L	256427	1	02/27/2018 20:18	IO
Nickel	0.0756	0.0200		mg/L	256427	1	02/27/2018 20:18	IO
Zinc	BRL	0.0200		mg/L	256427	1	02/27/2018 20:18	IO

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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-106-20180222-01
Project Name:	AGL - Macon	**Collection Date:**	2/22/2018 2:20:00 PM
Lab ID:	1802L36-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256698	1	03/02/2018 01:19	NP
Carbon disulfide	BRL	5.0		ug/L	256698	1	03/02/2018 01:19	NP
Ethylbenzene	BRL	5.0		ug/L	256698	1	03/02/2018 01:19	NP
Toluene	BRL	5.0		ug/L	256698	1	03/02/2018 01:19	NP
Xylenes, Total	BRL	5.0		ug/L	256698	1	03/02/2018 01:19	NP
Surr: 4-Bromofluorobenzene	88.1	68-127		%REC	256698	1	03/02/2018 01:19	NP
Surr: Dibromofluoromethane	104	84.4-122		%REC	256698	1	03/02/2018 01:19	NP
Surr: Toluene-d8	101	80.1-116		%REC	256698	1	03/02/2018 01:19	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256629	1	03/01/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256410	1	02/27/2018 14:56	YH
Acenaphthylene	BRL	1.0		ug/L	256410	1	02/27/2018 14:56	YH
Acenaphthene	BRL	0.50		ug/L	256410	1	02/27/2018 14:56	YH
Fluorene	BRL	0.10		ug/L	256410	1	02/27/2018 14:56	YH
Phenanthrene	BRL	0.050		ug/L	256410	1	02/27/2018 14:56	YH
Anthracene	0.077	0.050		ug/L	256410	1	02/27/2018 14:56	YH
Fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 14:56	YH
Pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 14:56	YH
Benz(a)anthracene	BRL	0.050		ug/L	256410	1	02/27/2018 14:56	YH
Chrysene	BRL	0.050		ug/L	256410	1	02/27/2018 14:56	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 14:56	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256410	1	02/27/2018 14:56	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 14:56	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 14:56	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256410	1	02/27/2018 14:56	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256410	1	02/27/2018 14:56	YH
Surr: 4-Terphenyl-d14	99.9	59.9-128		%REC	256410	1	02/27/2018 14:56	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256409	1	02/27/2018 12:16	YH
2-Methylphenol	BRL	10		ug/L	256409	1	02/27/2018 12:16	YH
3,4-Methylphenol	BRL	10		ug/L	256409	1	02/27/2018 12:16	YH
Phenol	BRL	10		ug/L	256409	1	02/27/2018 12:16	YH
Surr: 2,4,6-Tribromophenol	66.3	51.4-138		%REC	256409	1	02/27/2018 12:16	YH
Surr: 2-Fluorobiphenyl	85.3	44.6-119		%REC	256409	1	02/27/2018 12:16	YH
Surr: 2-Fluorophenol	60.7	27.2-120		%REC	256409	1	02/27/2018 12:16	YH
Surr: 4-Terphenyl-d14	90.7	47.1-136		%REC	256409	1	02/27/2018 12:16	YH
Surr: Nitrobenzene-d5	81.7	40.7-119		%REC	256409	1	02/27/2018 12:16	YH

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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-106-20180222-01
Project Name:	AGL - Macon	**Collection Date:**	2/22/2018 2:20:00 PM
Lab ID:	1802L36-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	51.4	18.1-120		%REC	256409	1	02/27/2018 12:16	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256648	1	03/01/2018 05:45	AS
ION SCAN SW9056A								
Nitrate	0.52	0.25		mg/L	R364010	1	02/24/2018 07:17	MP
Sulfate	140	10		mg/L	R364010	10	02/27/2018 20:50	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	BRL	4.0		ug/L	256509	1	02/27/2018 12:27	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363981	1	02/23/2018 14:18	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	0.088	0.010		mg/L	256614	1	03/01/2018 10:30	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256427	1	02/27/2018 20:44	IO
Arsenic	BRL	0.0500		mg/L	256427	1	02/27/2018 20:44	IO
Barium	0.0312	0.0200		mg/L	256427	1	02/27/2018 20:44	IO
Beryllium	BRL	0.0100		mg/L	256427	1	02/27/2018 20:44	IO
Cadmium	BRL	0.0050		mg/L	256427	1	02/27/2018 20:44	IO
Chromium	BRL	0.0100		mg/L	256427	1	02/27/2018 20:44	IO
Copper	BRL	0.0100		mg/L	256427	1	02/27/2018 20:44	IO
Iron	BRL	0.100		mg/L	256427	1	02/27/2018 20:44	IO
Lead	BRL	0.0100		mg/L	256427	1	02/27/2018 20:44	IO
Nickel	BRL	0.0200		mg/L	256427	1	02/27/2018 20:44	IO
Zinc	BRL	0.0200		mg/L	256427	1	02/27/2018 20:44	IO

Qualifiers:

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- BRL Below reporting limit
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- 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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-401-20180222-01
Project Name:	AGL - Macon	**Collection Date:**	2/22/2018 2:35:00 PM
Lab ID:	1802L36-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256698	1	03/02/2018 01:44	NP
Carbon disulfide	BRL	5.0		ug/L	256698	1	03/02/2018 01:44	NP
Ethylbenzene	BRL	5.0		ug/L	256698	1	03/02/2018 01:44	NP
Toluene	BRL	5.0		ug/L	256698	1	03/02/2018 01:44	NP
Xylenes, Total	BRL	5.0		ug/L	256698	1	03/02/2018 01:44	NP
Surr: 4-Bromofluorobenzene	89	68-127		%REC	256698	1	03/02/2018 01:44	NP
Surr: Dibromofluoromethane	106	84.4-122		%REC	256698	1	03/02/2018 01:44	NP
Surr: Toluene-d8	101	80.1-116		%REC	256698	1	03/02/2018 01:44	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256629	1	03/01/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256410	1	02/27/2018 15:22	YH
Acenaphthylene	BRL	1.0		ug/L	256410	1	02/27/2018 15:22	YH
Acenaphthene	BRL	0.50		ug/L	256410	1	02/27/2018 15:22	YH
Fluorene	BRL	0.10		ug/L	256410	1	02/27/2018 15:22	YH
Phenanthrene	BRL	0.050		ug/L	256410	1	02/27/2018 15:22	YH
Anthracene	BRL	0.050		ug/L	256410	1	02/27/2018 15:22	YH
Fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 15:22	YH
Pyrene	2.0	0.050		ug/L	256410	1	02/27/2018 15:22	YH
Benz(a)anthracene	BRL	0.050		ug/L	256410	1	02/27/2018 15:22	YH
Chrysene	BRL	0.050		ug/L	256410	1	02/27/2018 15:22	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 15:22	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256410	1	02/27/2018 15:22	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 15:22	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 15:22	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256410	1	02/27/2018 15:22	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256410	1	02/27/2018 15:22	YH
Surr: 4-Terphenyl-d14	111	59.9-128		%REC	256410	1	02/27/2018 15:22	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256409	1	02/27/2018 12:46	YH
2-Methylphenol	BRL	10		ug/L	256409	1	02/27/2018 12:46	YH
3,4-Methylphenol	BRL	10		ug/L	256409	1	02/27/2018 12:46	YH
Phenol	BRL	10		ug/L	256409	1	02/27/2018 12:46	YH
Surr: 2,4,6-Tribromophenol	68	51.4-138		%REC	256409	1	02/27/2018 12:46	YH
Surr: 2-Fluorobiphenyl	76.3	44.6-119		%REC	256409	1	02/27/2018 12:46	YH
Surr: 2-Fluorophenol	59	27.2-120		%REC	256409	1	02/27/2018 12:46	YH
Surr: 4-Terphenyl-d14	88.7	47.1-136		%REC	256409	1	02/27/2018 12:46	YH
Surr: Nitrobenzene-d5	76	40.7-119		%REC	256409	1	02/27/2018 12:46	YH

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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-401-20180222-01
Project Name:	AGL - Macon	**Collection Date:**	2/22/2018 2:35:00 PM
Lab ID:	1802L36-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	53.4	18.1-120		%REC	256409	1	02/27/2018 12:46	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256648	1	03/01/2018 05:49	AS
ION SCAN SW9056A								
Nitrate	0.43	0.25		mg/L	R364010	1	02/24/2018 07:32	MP
Sulfate	99	1.0		mg/L	R364010	1	02/24/2018 07:32	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	24	4.0		ug/L	256509	1	02/27/2018 12:31	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	10.2	1.00		mg/L	R363981	10	02/23/2018 14:18	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	256614	1	03/01/2018 10:30	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256427	1	02/27/2018 20:48	IO
Arsenic	BRL	0.0500		mg/L	256427	1	02/27/2018 20:48	IO
Barium	0.0827	0.0200		mg/L	256427	1	02/27/2018 20:48	IO
Beryllium	BRL	0.0100		mg/L	256427	1	02/27/2018 20:48	IO
Cadmium	BRL	0.0050		mg/L	256427	1	02/27/2018 20:48	IO
Chromium	BRL	0.0100		mg/L	256427	1	02/27/2018 20:48	IO
Copper	BRL	0.0100		mg/L	256427	1	02/27/2018 20:48	IO
Iron	9.61	0.100		mg/L	256427	1	02/27/2018 20:48	IO
Lead	BRL	0.0100		mg/L	256427	1	02/27/2018 20:48	IO
Nickel	BRL	0.0200		mg/L	256427	1	02/27/2018 20:48	IO
Zinc	BRL	0.0200		mg/L	256427	1	02/27/2018 20:48	IO

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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-107-20180222-01
Project Name:	AGL - Macon	**Collection Date:**	2/22/2018 4:35:00 PM
Lab ID:	1802L36-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256698	1	03/02/2018 05:45	NP
Carbon disulfide	BRL	5.0		ug/L	256698	1	03/02/2018 05:45	NP
Ethylbenzene	BRL	5.0		ug/L	256698	1	03/02/2018 05:45	NP
Toluene	BRL	5.0		ug/L	256698	1	03/02/2018 05:45	NP
Xylenes, Total	BRL	5.0		ug/L	256698	1	03/02/2018 05:45	NP
Surr: 4-Bromofluorobenzene	87.4	68-127		%REC	256698	1	03/02/2018 05:45	NP
Surr: Dibromofluoromethane	107	84.4-122		%REC	256698	1	03/02/2018 05:45	NP
Surr: Toluene-d8	103	80.1-116		%REC	256698	1	03/02/2018 05:45	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256629	1	03/01/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256410	1	02/27/2018 15:48	YH
Acenaphthylene	BRL	1.0		ug/L	256410	1	02/27/2018 15:48	YH
Acenaphthene	0.79	0.50		ug/L	256410	1	02/27/2018 15:48	YH
Fluorene	0.38	0.10		ug/L	256410	1	02/27/2018 15:48	YH
Phenanthrene	BRL	0.050		ug/L	256410	1	02/27/2018 15:48	YH
Anthracene	BRL	0.050		ug/L	256410	1	02/27/2018 15:48	YH
Fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 15:48	YH
Pyrene	0.95	0.050		ug/L	256410	1	02/27/2018 15:48	YH
Benz(a)anthracene	BRL	0.050		ug/L	256410	1	02/27/2018 15:48	YH
Chrysene	BRL	0.050		ug/L	256410	1	02/27/2018 15:48	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 15:48	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256410	1	02/27/2018 15:48	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 15:48	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 15:48	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256410	1	02/27/2018 15:48	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256410	1	02/27/2018 15:48	YH
Surr: 4-Terphenyl-d14	82	59.9-128		%REC	256410	1	02/27/2018 15:48	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256409	1	02/27/2018 13:15	YH
2-Methylphenol	BRL	10		ug/L	256409	1	02/27/2018 13:15	YH
3,4-Methylphenol	BRL	10		ug/L	256409	1	02/27/2018 13:15	YH
Phenol	BRL	10		ug/L	256409	1	02/27/2018 13:15	YH
Surr: 2,4,6-Tribromophenol	68.2	51.4-138		%REC	256409	1	02/27/2018 13:15	YH
Surr: 2-Fluorobiphenyl	80.1	44.6-119		%REC	256409	1	02/27/2018 13:15	YH
Surr: 2-Fluorophenol	60.8	27.2-120		%REC	256409	1	02/27/2018 13:15	YH
Surr: 4-Terphenyl-d14	83.9	47.1-136		%REC	256409	1	02/27/2018 13:15	YH
Surr: Nitrobenzene-d5	78.7	40.7-119		%REC	256409	1	02/27/2018 13:15	YH

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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-107-20180222-01
Project Name:	AGL - Macon	**Collection Date:**	2/22/2018 4:35:00 PM
Lab ID:	1802L36-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	53	18.1-120		%REC	256409	1	02/27/2018 13:15	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256648	1	03/01/2018 05:52	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R364010	1	02/24/2018 07:47	MP
Sulfate	91	1.0		mg/L	R364010	1	02/24/2018 07:47	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	590	20		ug/L	256509	5	02/27/2018 14:00	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	6.29	1.00		mg/L	R363981	10	02/23/2018 14:18	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	0.012	0.010		mg/L	256614	1	03/01/2018 10:30	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256427	1	02/27/2018 20:51	IO
Arsenic	BRL	0.0500		mg/L	256427	1	02/27/2018 20:51	IO
Barium	0.0617	0.0200		mg/L	256427	1	02/27/2018 20:51	IO
Beryllium	BRL	0.0100		mg/L	256427	1	02/27/2018 20:51	IO
Cadmium	BRL	0.0050		mg/L	256427	1	02/27/2018 20:51	IO
Chromium	BRL	0.0100		mg/L	256427	1	02/27/2018 20:51	IO
Copper	BRL	0.0100		mg/L	256427	1	02/27/2018 20:51	IO
Iron	6.10	0.100		mg/L	256427	1	02/27/2018 20:51	IO
Lead	BRL	0.0100		mg/L	256427	1	02/27/2018 20:51	IO
Nickel	BRL	0.0200		mg/L	256427	1	02/27/2018 20:51	IO
Zinc	BRL	0.0200		mg/L	256427	1	02/27/2018 20:51	IO

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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-300D-20180222-01
Project Name:	AGL - Macon	**Collection Date:**	2/22/2018 4:09:00 PM
Lab ID:	1802L36-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256698	1	03/02/2018 06:09	NP
Carbon disulfide	BRL	5.0		ug/L	256698	1	03/02/2018 06:09	NP
Ethylbenzene	BRL	5.0		ug/L	256698	1	03/02/2018 06:09	NP
Toluene	BRL	5.0		ug/L	256698	1	03/02/2018 06:09	NP
Xylenes, Total	BRL	5.0		ug/L	256698	1	03/02/2018 06:09	NP
Surr: 4-Bromofluorobenzene	87.1	68-127		%REC	256698	1	03/02/2018 06:09	NP
Surr: Dibromofluoromethane	107	84.4-122		%REC	256698	1	03/02/2018 06:09	NP
Surr: Toluene-d8	103	80.1-116		%REC	256698	1	03/02/2018 06:09	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256629	1	03/01/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256410	1	02/27/2018 16:15	YH
Acenaphthylene	BRL	1.0		ug/L	256410	1	02/27/2018 16:15	YH
Acenaphthene	BRL	0.50		ug/L	256410	1	02/27/2018 16:15	YH
Fluorene	BRL	0.10		ug/L	256410	1	02/27/2018 16:15	YH
Phenanthrene	BRL	0.050		ug/L	256410	1	02/27/2018 16:15	YH
Anthracene	BRL	0.050		ug/L	256410	1	02/27/2018 16:15	YH
Fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 16:15	YH
Pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 16:15	YH
Benz(a)anthracene	BRL	0.050		ug/L	256410	1	02/27/2018 16:15	YH
Chrysene	BRL	0.050		ug/L	256410	1	02/27/2018 16:15	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 16:15	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256410	1	02/27/2018 16:15	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 16:15	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 16:15	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256410	1	02/27/2018 16:15	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256410	1	02/27/2018 16:15	YH
Surr: 4-Terphenyl-d14	90.2	59.9-128		%REC	256410	1	02/27/2018 16:15	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256409	1	02/27/2018 13:43	YH
2-Methylphenol	BRL	10		ug/L	256409	1	02/27/2018 13:43	YH
3,4-Methylphenol	BRL	10		ug/L	256409	1	02/27/2018 13:43	YH
Phenol	BRL	10		ug/L	256409	1	02/27/2018 13:43	YH
Surr: 2,4,6-Tribromophenol	65	51.4-138		%REC	256409	1	02/27/2018 13:43	YH
Surr: 2-Fluorobiphenyl	77	44.6-119		%REC	256409	1	02/27/2018 13:43	YH
Surr: 2-Fluorophenol	57.3	27.2-120		%REC	256409	1	02/27/2018 13:43	YH
Surr: 4-Terphenyl-d14	89.3	47.1-136		%REC	256409	1	02/27/2018 13:43	YH
Surr: Nitrobenzene-d5	75.6	40.7-119		%REC	256409	1	02/27/2018 13:43	YH

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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-300D-20180222-01
Project Name:	AGL - Macon	**Collection Date:**	2/22/2018 4:09:00 PM
Lab ID:	1802L36-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	51.4	18.1-120		%REC	256409	1	02/27/2018 13:43	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256648	1	03/01/2018 05:56	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R364010	1	02/24/2018 08:02	MP
Sulfate	2.2	1.0		mg/L	R364010	1	02/24/2018 08:02	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	48	4.0		ug/L	256509	1	02/27/2018 12:47	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	4.23	0.500		mg/L	R363981	5	02/23/2018 14:18	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	256614	1	03/01/2018 10:30	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256427	1	02/27/2018 20:55	IO
Arsenic	BRL	0.0500		mg/L	256427	1	02/27/2018 20:55	IO
Barium	1.14	0.0200		mg/L	256427	1	02/27/2018 20:55	IO
Beryllium	BRL	0.0100		mg/L	256427	1	02/27/2018 20:55	IO
Cadmium	BRL	0.0050		mg/L	256427	1	02/27/2018 20:55	IO
Chromium	BRL	0.0100		mg/L	256427	1	02/27/2018 20:55	IO
Copper	BRL	0.0100		mg/L	256427	1	02/27/2018 20:55	IO
Iron	4.93	0.100		mg/L	256427	1	02/27/2018 20:55	IO
Lead	BRL	0.0100		mg/L	256427	1	02/27/2018 20:55	IO
Nickel	BRL	0.0200		mg/L	256427	1	02/27/2018 20:55	IO
Zinc	0.687	0.0200		mg/L	256427	1	02/27/2018 20:55	IO

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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-200DR-20180222-01
Project Name:	AGL - Macon	**Collection Date:**	2/22/2018 3:55:00 PM
Lab ID:	1802L36-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	190	5.0		ug/L	256698	1	03/02/2018 06:33	NP
Carbon disulfide	BRL	5.0		ug/L	256698	1	03/02/2018 06:33	NP
Ethylbenzene	97	5.0		ug/L	256698	1	03/02/2018 06:33	NP
Toluene	BRL	5.0		ug/L	256698	1	03/02/2018 06:33	NP
Xylenes, Total	7.6	5.0		ug/L	256698	1	03/02/2018 06:33	NP
Surr: 4-Bromofluorobenzene	90.1	68-127		%REC	256698	1	03/02/2018 06:33	NP
Surr: Dibromofluoromethane	99.8	84.4-122		%REC	256698	1	03/02/2018 06:33	NP
Surr: Toluene-d8	100	80.1-116		%REC	256698	1	03/02/2018 06:33	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256629	1	03/01/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	880	50		ug/L	256410	100	02/28/2018 15:40	YH
Acenaphthylene	2.2	1.0		ug/L	256410	1	02/27/2018 16:41	YH
Acenaphthene	35	10		ug/L	256410	100	02/28/2018 15:40	YH
Fluorene	24	10		ug/L	256410	100	02/28/2018 15:40	YH
Phenanthrene	6.1	5.0		ug/L	256410	100	02/28/2018 15:40	YH
Anthracene	2.2	0.050		ug/L	256410	1	02/27/2018 16:41	YH
Fluoranthene	3.7	0.10		ug/L	256410	1	02/27/2018 16:41	YH
Pyrene	4.8	0.050		ug/L	256410	1	02/27/2018 16:41	YH
Benz(a)anthracene	0.069	0.050		ug/L	256410	1	02/27/2018 16:41	YH
Chrysene	0.071	0.050		ug/L	256410	1	02/27/2018 16:41	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 16:41	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256410	1	02/27/2018 16:41	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 16:41	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 16:41	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256410	1	02/27/2018 16:41	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256410	1	02/27/2018 16:41	YH
Surr: 4-Terphenyl-d14	105	59.9-128		%REC	256410	1	02/27/2018 16:41	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256409	1	02/27/2018 14:11	YH
2-Methylphenol	BRL	10		ug/L	256409	1	02/27/2018 14:11	YH
3,4-Methylphenol	BRL	10		ug/L	256409	1	02/27/2018 14:11	YH
Phenol	BRL	10		ug/L	256409	1	02/27/2018 14:11	YH
Surr: 2,4,6-Tribromophenol	73.8	51.4-138		%REC	256409	1	02/27/2018 14:11	YH
Surr: 2-Fluorobiphenyl	83.8	44.6-119		%REC	256409	1	02/27/2018 14:11	YH
Surr: 2-Fluorophenol	64.4	27.2-120		%REC	256409	1	02/27/2018 14:11	YH
Surr: 4-Terphenyl-d14	95.7	47.1-136		%REC	256409	1	02/27/2018 14:11	YH
Surr: Nitrobenzene-d5	83.6	40.7-119		%REC	256409	1	02/27/2018 14:11	YH

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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-200DR-20180222-01
Project Name:	AGL - Macon	**Collection Date:**	2/22/2018 3:55:00 PM
Lab ID:	1802L36-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	64.2	18.1-120		%REC	256409	1	02/27/2018 14:11	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256648	1	03/01/2018 06:00	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R364010	1	02/24/2018 08:16	MP
Sulfate	BRL	1.0		mg/L	R364010	1	02/24/2018 08:16	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	1700	80		ug/L	256509	20	02/27/2018 15:08	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	2.62	1.00		mg/L	R363981	10	02/23/2018 14:18	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	0.022	0.010		mg/L	256614	1	03/01/2018 10:30	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256427	1	02/27/2018 20:59	IO
Arsenic	BRL	0.0500		mg/L	256427	1	02/27/2018 20:59	IO
Barium	2.05	0.0200		mg/L	256427	1	02/27/2018 20:59	IO
Beryllium	BRL	0.0100		mg/L	256427	1	02/27/2018 20:59	IO
Cadmium	BRL	0.0050		mg/L	256427	1	02/27/2018 20:59	IO
Chromium	BRL	0.0100		mg/L	256427	1	02/27/2018 20:59	IO
Copper	BRL	0.0100		mg/L	256427	1	02/27/2018 20:59	IO
Iron	4.44	0.100		mg/L	256427	1	02/27/2018 20:59	IO
Lead	BRL	0.0100		mg/L	256427	1	02/27/2018 20:59	IO
Nickel	BRL	0.0200		mg/L	256427	1	02/27/2018 20:59	IO
Zinc	BRL	0.0200		mg/L	256427	1	02/27/2018 20:59	IO

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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-15-20180222-01
Project Name:	AGL - Macon	**Collection Date:**	2/22/2018 4:35:00 PM
Lab ID:	1802L36-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256698	1	03/02/2018 06:57	NP
Carbon disulfide	BRL	5.0		ug/L	256698	1	03/02/2018 06:57	NP
Ethylbenzene	BRL	5.0		ug/L	256698	1	03/02/2018 06:57	NP
Toluene	BRL	5.0		ug/L	256698	1	03/02/2018 06:57	NP
Xylenes, Total	BRL	5.0		ug/L	256698	1	03/02/2018 06:57	NP
Surr: 4-Bromofluorobenzene	87.7	68-127		%REC	256698	1	03/02/2018 06:57	NP
Surr: Dibromofluoromethane	105	84.4-122		%REC	256698	1	03/02/2018 06:57	NP
Surr: Toluene-d8	99.5	80.1-116		%REC	256698	1	03/02/2018 06:57	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	5.80	2.00		mg/L	256629	1	03/01/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256410	1	02/27/2018 17:08	YH
Acenaphthylene	BRL	1.0		ug/L	256410	1	02/27/2018 17:08	YH
Acenaphthene	0.68	0.50		ug/L	256410	1	02/27/2018 17:08	YH
Fluorene	0.37	0.10		ug/L	256410	1	02/27/2018 17:08	YH
Phenanthrene	BRL	0.050		ug/L	256410	1	02/27/2018 17:08	YH
Anthracene	BRL	0.050		ug/L	256410	1	02/27/2018 17:08	YH
Fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 17:08	YH
Pyrene	0.73	0.050		ug/L	256410	1	02/27/2018 17:08	YH
Benz(a)anthracene	BRL	0.050		ug/L	256410	1	02/27/2018 17:08	YH
Chrysene	BRL	0.050		ug/L	256410	1	02/27/2018 17:08	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 17:08	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256410	1	02/27/2018 17:08	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 17:08	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 17:08	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256410	1	02/27/2018 17:08	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256410	1	02/27/2018 17:08	YH
Surr: 4-Terphenyl-d14	73.5	59.9-128		%REC	256410	1	02/27/2018 17:08	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256409	1	02/27/2018 16:35	YH
2-Methylphenol	BRL	10		ug/L	256409	1	02/27/2018 16:35	YH
3,4-Methylphenol	BRL	10		ug/L	256409	1	02/27/2018 16:35	YH
Phenol	BRL	10		ug/L	256409	1	02/27/2018 16:35	YH
Surr: 2,4,6-Tribromophenol	65	51.4-138		%REC	256409	1	02/27/2018 16:35	YH
Surr: 2-Fluorobiphenyl	77.4	44.6-119		%REC	256409	1	02/27/2018 16:35	YH
Surr: 2-Fluorophenol	58.8	27.2-120		%REC	256409	1	02/27/2018 16:35	YH
Surr: 4-Terphenyl-d14	85.6	47.1-136		%REC	256409	1	02/27/2018 16:35	YH
Surr: Nitrobenzene-d5	78.5	40.7-119		%REC	256409	1	02/27/2018 16:35	YH

Qualifiers:

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- 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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-15-20180222-01
Project Name:	AGL - Macon	**Collection Date:**	2/22/2018 4:35:00 PM
Lab ID:	1802L36-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	49.9	18.1-120		%REC	256409	1	02/27/2018 16:35	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256648	1	03/01/2018 06:12	AS
ION SCAN SW9056A								
Nitrate	2.7	0.25		mg/L	R364010	1	02/24/2018 08:31	MP
Sulfate	230	10		mg/L	R364010	10	02/27/2018 21:05	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	BRL	4.0		ug/L	256509	1	02/27/2018 12:57	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	0.462	0.100		mg/L	R363981	1	02/23/2018 14:18	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	0.109	0.010		mg/L	256614	1	03/01/2018 10:30	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256427	1	02/27/2018 21:03	IO
Arsenic	BRL	0.0500		mg/L	256427	1	02/27/2018 21:03	IO
Barium	0.0245	0.0200		mg/L	256427	1	02/27/2018 21:03	IO
Beryllium	BRL	0.0100		mg/L	256427	1	02/27/2018 21:03	IO
Cadmium	BRL	0.0050		mg/L	256427	1	02/27/2018 21:03	IO
Chromium	BRL	0.0100		mg/L	256427	1	02/27/2018 21:03	IO
Copper	BRL	0.0100		mg/L	256427	1	02/27/2018 21:03	IO
Iron	0.551	0.100		mg/L	256427	1	02/27/2018 21:03	IO
Lead	BRL	0.0100		mg/L	256427	1	02/27/2018 21:03	IO
Nickel	BRL	0.0200		mg/L	256427	1	02/27/2018 21:03	IO
Zinc	0.0689	0.0200		mg/L	256427	1	02/27/2018 21:03	IO

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- 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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-104-20180222-01
Project Name:	AGL - Macon	**Collection Date:**	2/22/2018 2:35:00 PM
Lab ID:	1802L36-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256698	1	03/02/2018 07:22	NP
Carbon disulfide	BRL	5.0		ug/L	256698	1	03/02/2018 07:22	NP
Ethylbenzene	BRL	5.0		ug/L	256698	1	03/02/2018 07:22	NP
Toluene	BRL	5.0		ug/L	256698	1	03/02/2018 07:22	NP
Xylenes, Total	BRL	5.0		ug/L	256698	1	03/02/2018 07:22	NP
Surr: 4-Bromofluorobenzene	85.8	68-127		%REC	256698	1	03/02/2018 07:22	NP
Surr: Dibromofluoromethane	105	84.4-122		%REC	256698	1	03/02/2018 07:22	NP
Surr: Toluene-d8	103	80.1-116		%REC	256698	1	03/02/2018 07:22	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256629	1	03/01/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256410	1	02/27/2018 17:37	YH
Acenaphthylene	BRL	1.0		ug/L	256410	1	02/27/2018 17:37	YH
Acenaphthene	BRL	0.50		ug/L	256410	1	02/27/2018 17:37	YH
Fluorene	BRL	0.10		ug/L	256410	1	02/27/2018 17:37	YH
Phenanthrene	BRL	0.050		ug/L	256410	1	02/27/2018 17:37	YH
Anthracene	BRL	0.050		ug/L	256410	1	02/27/2018 17:37	YH
Fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 17:37	YH
Pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 17:37	YH
Benz(a)anthracene	BRL	0.050		ug/L	256410	1	02/27/2018 17:37	YH
Chrysene	BRL	0.050		ug/L	256410	1	02/27/2018 17:37	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 17:37	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256410	1	02/27/2018 17:37	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 17:37	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 17:37	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256410	1	02/27/2018 17:37	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256410	1	02/27/2018 17:37	YH
Surr: 4-Terphenyl-d14	48.7	59.9-128	S	%REC	256410	1	02/27/2018 17:37	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256409	1	02/27/2018 17:03	YH
2-Methylphenol	BRL	10		ug/L	256409	1	02/27/2018 17:03	YH
3,4-Methylphenol	BRL	10		ug/L	256409	1	02/27/2018 17:03	YH
Phenol	BRL	10		ug/L	256409	1	02/27/2018 17:03	YH
Surr: 2,4,6-Tribromophenol	69.2	51.4-138		%REC	256409	1	02/27/2018 17:03	YH
Surr: 2-Fluorobiphenyl	74.7	44.6-119		%REC	256409	1	02/27/2018 17:03	YH
Surr: 2-Fluorophenol	60.1	27.2-120		%REC	256409	1	02/27/2018 17:03	YH
Surr: 4-Terphenyl-d14	84.7	47.1-136		%REC	256409	1	02/27/2018 17:03	YH
Surr: Nitrobenzene-d5	79.9	40.7-119		%REC	256409	1	02/27/2018 17:03	YH

Qualifiers:

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- 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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-104-20180222-01
Project Name:	AGL - Macon	**Collection Date:**	2/22/2018 2:35:00 PM
Lab ID:	1802L36-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	51.5	18.1-120		%REC	256409	1	02/27/2018 17:03	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256648	1	03/01/2018 06:16	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R364010	1	02/24/2018 08:46	MP
Sulfate	43	1.0		mg/L	R364010	1	02/24/2018 08:46	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	BRL	4.0		ug/L	256509	1	02/27/2018 13:14	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363981	1	02/23/2018 14:18	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	BRL	0.010		mg/L	256614	1	03/01/2018 10:30	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256427	1	02/27/2018 21:06	IO
Arsenic	BRL	0.0500		mg/L	256427	1	02/27/2018 21:06	IO
Barium	0.0438	0.0200		mg/L	256427	1	02/27/2018 21:06	IO
Beryllium	BRL	0.0100		mg/L	256427	1	02/27/2018 21:06	IO
Cadmium	BRL	0.0050		mg/L	256427	1	02/27/2018 21:06	IO
Chromium	BRL	0.0100		mg/L	256427	1	02/27/2018 21:06	IO
Copper	BRL	0.0100		mg/L	256427	1	02/27/2018 21:06	IO
Iron	BRL	0.100		mg/L	256427	1	02/27/2018 21:06	IO
Lead	BRL	0.0100		mg/L	256427	1	02/27/2018 21:06	IO
Nickel	BRL	0.0200		mg/L	256427	1	02/27/2018 21:06	IO
Zinc	BRL	0.0200		mg/L	256427	1	02/27/2018 21:06	IO

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- > 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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-104I-20180222-01
Project Name:	AGL - Macon	**Collection Date:**	2/22/2018 4:15:00 PM
Lab ID:	1802L36-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256698	1	03/02/2018 07:45	NP
Carbon disulfide	BRL	5.0		ug/L	256698	1	03/02/2018 07:45	NP
Ethylbenzene	BRL	5.0		ug/L	256698	1	03/02/2018 07:45	NP
Toluene	BRL	5.0		ug/L	256698	1	03/02/2018 07:45	NP
Xylenes, Total	BRL	5.0		ug/L	256698	1	03/02/2018 07:45	NP
Surr: 4-Bromofluorobenzene	87.7	68-127		%REC	256698	1	03/02/2018 07:45	NP
Surr: Dibromofluoromethane	105	84.4-122		%REC	256698	1	03/02/2018 07:45	NP
Surr: Toluene-d8	104	80.1-116		%REC	256698	1	03/02/2018 07:45	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256629	1	03/01/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256410	1	02/27/2018 18:04	YH
Acenaphthylene	BRL	1.0		ug/L	256410	1	02/27/2018 18:04	YH
Acenaphthene	BRL	0.50		ug/L	256410	1	02/27/2018 18:04	YH
Fluorene	BRL	0.10		ug/L	256410	1	02/27/2018 18:04	YH
Phenanthrene	BRL	0.050		ug/L	256410	1	02/27/2018 18:04	YH
Anthracene	BRL	0.050		ug/L	256410	1	02/27/2018 18:04	YH
Fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 18:04	YH
Pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 18:04	YH
Benz(a)anthracene	BRL	0.050		ug/L	256410	1	02/27/2018 18:04	YH
Chrysene	BRL	0.050		ug/L	256410	1	02/27/2018 18:04	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 18:04	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256410	1	02/27/2018 18:04	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 18:04	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 18:04	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256410	1	02/27/2018 18:04	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256410	1	02/27/2018 18:04	YH
Surr: 4-Terphenyl-d14	61.7	59.9-128		%REC	256410	1	02/27/2018 18:04	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256409	1	02/28/2018 21:41	YH
2-Methylphenol	BRL	10		ug/L	256409	1	02/28/2018 21:41	YH
3,4-Methylphenol	BRL	10		ug/L	256409	1	02/28/2018 21:41	YH
Phenol	BRL	10		ug/L	256409	1	02/28/2018 21:41	YH
Surr: 2,4,6-Tribromophenol	88.8	51.4-138		%REC	256409	1	02/28/2018 21:41	YH
Surr: 2-Fluorobiphenyl	84.3	44.6-119		%REC	256409	1	02/28/2018 21:41	YH
Surr: 2-Fluorophenol	62.8	27.2-120		%REC	256409	1	02/28/2018 21:41	YH
Surr: 4-Terphenyl-d14	103	47.1-136		%REC	256409	1	02/28/2018 21:41	YH
Surr: Nitrobenzene-d5	80.6	40.7-119		%REC	256409	1	02/28/2018 21:41	YH

Qualifiers:

- * Value exceeds maximum contaminant level
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- 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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-104I-20180222-01
Project Name:	AGL - Macon	**Collection Date:**	2/22/2018 4:15:00 PM
Lab ID:	1802L36-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	48.8	18.1-120		%REC	256409	1	02/28/2018 21:41	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256648	1	03/01/2018 06:20	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R364010	1	02/24/2018 09:45	MP
Sulfate	28	1.0		mg/L	R364010	1	02/24/2018 09:45	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	BRL	4.0		ug/L	256509	1	02/27/2018 13:09	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363981	1	02/23/2018 14:18	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	256614	1	03/01/2018 10:30	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256427	1	02/27/2018 21:10	IO
Arsenic	BRL	0.0500		mg/L	256427	1	02/27/2018 21:10	IO
Barium	0.0201	0.0200		mg/L	256427	1	02/27/2018 21:10	IO
Beryllium	BRL	0.0100		mg/L	256427	1	02/27/2018 21:10	IO
Cadmium	BRL	0.0050		mg/L	256427	1	02/27/2018 21:10	IO
Chromium	BRL	0.0100		mg/L	256427	1	02/27/2018 21:10	IO
Copper	BRL	0.0100		mg/L	256427	1	02/27/2018 21:10	IO
Iron	0.208	0.100		mg/L	256427	1	02/27/2018 21:10	IO
Lead	BRL	0.0100		mg/L	256427	1	02/27/2018 21:10	IO
Nickel	BRL	0.0200		mg/L	256427	1	02/27/2018 21:10	IO
Zinc	BRL	0.0200		mg/L	256427	1	02/27/2018 21:10	IO

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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-12DRR-20180223-01
Project Name:	AGL - Macon	**Collection Date:**	2/23/2018 9:55:00 AM
Lab ID:	1802L36-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	110	5.0		ug/L	256698	1	03/01/2018 23:19	NP
Carbon disulfide	BRL	5.0		ug/L	256698	1	03/01/2018 23:19	NP
Ethylbenzene	53	5.0		ug/L	256698	1	03/01/2018 23:19	NP
Toluene	BRL	5.0		ug/L	256698	1	03/01/2018 23:19	NP
Xylenes, Total	21	5.0		ug/L	256698	1	03/01/2018 23:19	NP
Surr: 4-Bromofluorobenzene	90	68-127		%REC	256698	1	03/01/2018 23:19	NP
Surr: Dibromofluoromethane	101	84.4-122		%REC	256698	1	03/01/2018 23:19	NP
Surr: Toluene-d8	98	80.1-116		%REC	256698	1	03/01/2018 23:19	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256629	1	03/01/2018 16:00	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	1100	500		ug/L	256410	1000	03/01/2018 11:21	YH
Acenaphthylene	7.6	1.0		ug/L	256410	1	02/27/2018 18:32	YH
Acenaphthene	47	10		ug/L	256410	100	02/28/2018 16:06	YH
Fluorene	43	10		ug/L	256410	100	02/28/2018 16:06	YH
Phenanthrene	14	5.0		ug/L	256410	100	02/28/2018 16:06	YH
Anthracene	3.2	0.050		ug/L	256410	1	02/27/2018 18:32	YH
Fluoranthene	6.5	0.10		ug/L	256410	1	02/27/2018 18:32	YH
Pyrene	8.5	0.050		ug/L	256410	1	02/27/2018 18:32	YH
Benz(a)anthracene	0.21	0.050		ug/L	256410	1	02/27/2018 18:32	YH
Chrysene	0.21	0.050		ug/L	256410	1	02/27/2018 18:32	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 18:32	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256410	1	02/27/2018 18:32	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 18:32	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 18:32	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256410	1	02/27/2018 18:32	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256410	1	02/27/2018 18:32	YH
Surr: 4-Terphenyl-d14	115	59.9-128		%REC	256410	1	02/27/2018 18:32	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256409	1	02/28/2018 22:07	YH
2-Methylphenol	BRL	10		ug/L	256409	1	02/28/2018 22:07	YH
3,4-Methylphenol	BRL	10		ug/L	256409	1	02/28/2018 22:07	YH
Phenol	BRL	10		ug/L	256409	1	02/28/2018 22:07	YH
Surr: 2,4,6-Tribromophenol	90.8	51.4-138		%REC	256409	1	02/28/2018 22:07	YH
Surr: 2-Fluorobiphenyl	86.4	44.6-119		%REC	256409	1	02/28/2018 22:07	YH
Surr: 2-Fluorophenol	67.8	27.2-120		%REC	256409	1	02/28/2018 22:07	YH
Surr: 4-Terphenyl-d14	105	47.1-136		%REC	256409	1	02/28/2018 22:07	YH
Surr: Nitrobenzene-d5	84	40.7-119		%REC	256409	1	02/28/2018 22:07	YH

Qualifiers:

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- 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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-12DRR-20180223-01
Project Name:	AGL - Macon	**Collection Date:**	2/23/2018 9:55:00 AM
Lab ID:	1802L36-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	54	18.1-120		%REC	256409	1	02/28/2018 22:07	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256648	1	03/01/2018 06:24	AS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R364017	1	02/24/2018 20:52	MP
Sulfate	11	1.0		mg/L	R364017	1	02/24/2018 20:52	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	1200	40		ug/L	256509	10	02/27/2018 14:21	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	0.251	0.100		mg/L	R363981	1	02/23/2018 14:18	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	0.034	0.010		mg/L	256614	1	03/01/2018 10:30	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256427	1	02/27/2018 21:14	IO
Arsenic	BRL	0.0500		mg/L	256427	1	02/27/2018 21:14	IO
Barium	1.16	0.0200		mg/L	256427	1	02/27/2018 21:14	IO
Beryllium	BRL	0.0100		mg/L	256427	1	02/27/2018 21:14	IO
Cadmium	BRL	0.0050		mg/L	256427	1	02/27/2018 21:14	IO
Chromium	BRL	0.0100		mg/L	256427	1	02/27/2018 21:14	IO
Copper	BRL	0.0100		mg/L	256427	1	02/27/2018 21:14	IO
Iron	0.355	0.100		mg/L	256427	1	02/27/2018 21:14	IO
Lead	BRL	0.0100		mg/L	256427	1	02/27/2018 21:14	IO
Nickel	BRL	0.0200		mg/L	256427	1	02/27/2018 21:14	IO
Zinc	BRL	0.0200		mg/L	256427	1	02/27/2018 21:14	IO

Qualifiers:

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- Narr See case narrative
- NC Not confirmed
- < Less than Result value
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Analytical Environmental Services, Inc **Date:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-1-20180223-01
Project Name:	AGL - Macon	**Collection Date:**	2/23/2018 12:01:00 AM
Lab ID:	1802L36-011	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256698	1	03/02/2018 03:20	NP
Carbon disulfide	BRL	5.0		ug/L	256698	1	03/02/2018 03:20	NP
Ethylbenzene	BRL	5.0		ug/L	256698	1	03/02/2018 03:20	NP
Toluene	BRL	5.0		ug/L	256698	1	03/02/2018 03:20	NP
Xylenes, Total	BRL	5.0		ug/L	256698	1	03/02/2018 03:20	NP
Surr: 4-Bromofluorobenzene	85.4	68-127		%REC	256698	1	03/02/2018 03:20	NP
Surr: Dibromofluoromethane	106	84.4-122		%REC	256698	1	03/02/2018 03:20	NP
Surr: Toluene-d8	102	80.1-116		%REC	256698	1	03/02/2018 03:20	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:** 13-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-3-20180223-01
Project Name:	AGL - Macon	**Collection Date:**	2/23/2018 12:01:00 AM
Lab ID:	1802L36-013	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256698	1	03/02/2018 03:44	NP
Carbon disulfide	BRL	5.0		ug/L	256698	1	03/02/2018 03:44	NP
Ethylbenzene	BRL	5.0		ug/L	256698	1	03/02/2018 03:44	NP
Toluene	BRL	5.0		ug/L	256698	1	03/02/2018 03:44	NP
Xylenes, Total	BRL	5.0		ug/L	256698	1	03/02/2018 03:44	NP
Surr: 4-Bromofluorobenzene	87.2	68-127		%REC	256698	1	03/02/2018 03:44	NP
Surr: Dibromofluoromethane	106	84.4-122		%REC	256698	1	03/02/2018 03:44	NP
Surr: Toluene-d8	103	80.1-116		%REC	256698	1	03/02/2018 03:44	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

Pace Analytical Energy Services LLC
220 William Pitt Way
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Fax: (412) 826-3433

March 8, 2018

Mirzeta Kararic
Analytical Environmental Services, Inc.
3785 Presidential Parkway
Suite 111
Atlanta, GA 30340

RE: **1802L36**

Pace Workorder: 25819

Dear Mirzeta Kararic:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, February 28, 2018. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Ruth Welsh 03/08/2018
Ruth.Welsh@pacelabs.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email PAESfeedback@pacelabs.com.

Total Number of Pages 19

CERTIFICATE OF ANALYSIS

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water
Accreditor:	West Virginia Department of Environmental Protection, Division of Water and Waste Management
Accreditation ID:	395
Scope:	Non-Potable Water
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	State of Virginia
Accreditation ID:	460201
Scope:	Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

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SAMPLE SUMMARY

Workorder: 25819 1802L36

Lab ID	Sample ID	Matrix	Date Collected	Date Received
258190001	MW-110D-20180222-01	Water	2/22/2018 14:20	2/28/2018 12:00
258190002	MW-106-20180222-01	Water	2/22/2018 14:20	2/28/2018 12:00
258190003	MW-401-20180222-01	Water	2/22/2018 14:35	2/28/2018 12:00
258190004	MW-107-20180222-01	Water	2/22/2018 16:35	2/28/2018 12:00
258190005	MW-300D-20180222-01	Water	2/22/2018 16:09	2/28/2018 12:00
258190006	MW-200DR-20180222-01	Water	2/22/2018 15:55	2/28/2018 12:00
258190007	MW-15-20180222-01	Water	2/22/2018 16:35	2/28/2018 12:00
258190008	MW-104-20180222-01	Water	2/22/2018 14:35	2/28/2018 12:00
258190009	MW-104I-20180222-01	Water	2/22/2018 16:15	2/28/2018 12:00
258190010	MW-12DRR-20180223-01	Water	2/23/2018 09:55	2/28/2018 12:00

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ANALYTICAL RESULTS

Workorder: 25819 1802L36

Lab ID: **258190001** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **MW-110D-20180222-01** Date Collected: 2/22/2018 14:20

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**140**	mg/l	5.0	0.32	1	3/5/2018 11:31	TD	n
Oxygen	**4.3**	mg/l	0.50	0.12	1	3/5/2018 11:31	TD	n
Nitrogen	**15**	mg/l	2.0	0.34	1	3/5/2018 11:31	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 11:31	TD	n

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ANALYTICAL RESULTS

Workorder: 25819 1802L36

Lab ID: **258190002** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **MW-106-20180222-01** Date Collected: 2/22/2018 14:20

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**140**	mg/l	5.0	0.32	1	3/5/2018 11:44	TD	n
Oxygen	**2.8**	mg/l	0.50	0.12	1	3/5/2018 11:44	TD	n
Nitrogen	**16**	mg/l	2.0	0.34	1	3/5/2018 11:44	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 11:44	TD	n

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ANALYTICAL RESULTS

Workorder: 25819 1802L36

Lab ID: **258190003** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **MW-401-20180222-01** Date Collected: 2/22/2018 14:35

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**80**	mg/l	5.0	0.32	1	3/5/2018 12:00	TD	n
Oxygen	**3.0**	mg/l	0.50	0.12	1	3/5/2018 12:00	TD	n
Nitrogen	**16**	mg/l	2.0	0.34	1	3/5/2018 12:00	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 12:00	TD	n

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ANALYTICAL RESULTS

Workorder: 25819 1802L36

Lab ID: **258190004** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **MW-107-20180222-01** Date Collected: 2/22/2018 16:35

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**97**	mg/l	5.0	0.32	1	3/5/2018 12:12	TD	n
Oxygen	**3.0**	mg/l	0.50	0.12	1	3/5/2018 12:12	TD	n
Nitrogen	**17**	mg/l	2.0	0.34	1	3/5/2018 12:12	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 12:12	TD	n

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ANALYTICAL RESULTS

Workorder: 25819 1802L36

Lab ID: **258190005** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **MW-300D-20180222-01** Date Collected: 2/22/2018 16:09

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**58**	mg/l	5.0	0.32	1	3/5/2018 12:25	TD	n
Oxygen	**4.2**	mg/l	0.50	0.12	1	3/5/2018 12:25	TD	n
Nitrogen	**18**	mg/l	2.0	0.34	1	3/5/2018 12:25	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 12:25	TD	n

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ANALYTICAL RESULTS

Workorder: 25819 1802L36

Lab ID: **258190006** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **MW-200DR-20180222-01** Date Collected: 2/22/2018 15:55

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**120**	mg/l	5.0	0.32	1	3/5/2018 12:37	TD	n
Oxygen	**3.2**	mg/l	0.50	0.12	1	3/5/2018 12:37	TD	n
Nitrogen	**17**	mg/l	2.0	0.34	1	3/5/2018 12:37	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 12:37	TD	n

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ANALYTICAL RESULTS

Workorder: 25819 1802L36

Lab ID: **258190007** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **MW-15-20180222-01** Date Collected: 2/22/2018 16:35

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**160**	mg/l	5.0	0.32	1	3/5/2018 12:49	TD	n
Oxygen	**4.4**	mg/l	0.50	0.12	1	3/5/2018 12:49	TD	n
Nitrogen	**19**	mg/l	2.0	0.34	1	3/5/2018 12:49	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 12:49	TD	n

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ANALYTICAL RESULTS

Workorder: 25819 1802L36

Lab ID: **258190008** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **MW-104-20180222-01** Date Collected: 2/22/2018 14:35

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**47**	mg/l	5.0	0.32	1	3/5/2018 13:02	TD	n
Oxygen	**5.3**	mg/l	0.50	0.12	1	3/5/2018 13:02	TD	n
Nitrogen	**15**	mg/l	2.0	0.34	1	3/5/2018 13:02	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 13:02	TD	n

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

ANALYTICAL RESULTS

Workorder: 25819 1802L36

Lab ID: **258190009** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **MW-104I-20180222-01** Date Collected: 2/22/2018 16:15

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**39**	mg/l	5.0	0.32	1	3/5/2018 13:14	TD	n
Oxygen	**7.6**	mg/l	0.50	0.12	1	3/5/2018 13:14	TD	n
Nitrogen	**17**	mg/l	2.0	0.34	1	3/5/2018 13:14	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 13:14	TD	n

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ANALYTICAL RESULTS

Workorder: 25819 1802L36

Lab ID: **258190010** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **MW-12DRR-20180223-01** Date Collected: 2/23/2018 09:55

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**120**	mg/l	5.0	0.32	1	3/5/2018 13:26	TD	n
Oxygen	**3.2**	mg/l	0.50	0.12	1	3/5/2018 13:26	TD	n
Nitrogen	**16**	mg/l	2.0	0.34	1	3/5/2018 13:26	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 13:26	TD	n

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 25819 1802L36

DEFINITIONS/QUALIFIERS

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA

Workorder: 25819 1802L36

QC Batch: DISG/6695 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 258190001, 258190002, 258190003, 258190004, 258190005, 258190006, 258190007, 258190008, 258190009, 258190010

METHOD BLANK: 54025

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Carbon Dioxide	mg/l	<5.0	5.0	n
Oxygen	mg/l	<0.50	0.50	n
Nitrogen	mg/l	<2.0	2.0	n
Carbon Monoxide	mg/l	<1.0	1.0	n

LABORATORY CONTROL SAMPLE & LCSD: 54026 54027

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Carbon Dioxide	mg/l	120	130	130	112	111	80-120	0.97	20	n
Oxygen	mg/l	11	10	9.9	88	87	80-120	1.3	20	n
Nitrogen	mg/l	140	120	120	89	89	80-120	0.98	20	n
Carbon Monoxide	mg/l	2	2.3	2.1	116	105	80-120	9.5	20	n

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 25819 1802L36

QUALITY CONTROL PARAMETER QUALIFIERS

n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

Pace Analytical Energy Services LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 25819 1802L36

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
258190001	MW-110D-20180222-01			AM20GAX	DISG/6695
258190002	MW-106-20180222-01			AM20GAX	DISG/6695
258190003	MW-401-20180222-01			AM20GAX	DISG/6695
258190004	MW-107-20180222-01			AM20GAX	DISG/6695
258190005	MW-300D-20180222-01			AM20GAX	DISG/6695
258190006	MW-200DR-20180222-01			AM20GAX	DISG/6695
258190007	MW-15-20180222-01			AM20GAX	DISG/6695
258190008	MW-104-20180222-01			AM20GAX	DISG/6695
258190009	MW-104I-20180222-01			AM20GAX	DISG/6695
258190010	MW-12DRR-20180223-01			AM20GAX	DISG/6695

1

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

25819

CHAIN OF CUSTODY

Work Order: _____

Date: _____ Page _____ of _____

COMPANY:	ADDRESS:
PHONE:	EMAIL:
SAMPLED BY:	SIGNATURE:

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	ANALYSIS REQUESTED: O2, N2, CO2, CH4	PRESERVATION (see codes)	REMARKS	Number of Containers
1	MW-110D-20180222-01	2/22/18	14:20	X		GW	X			
2	MW-106-20180222-01		14:20	X		GW	X			
3	MW_401-20180222-01		14:35	X		GW	X			
4	MW-107-20180222-01		16:35	X		GW	X			
5	MW-300D-20180222-01		16:09	X		GW	X			
6	MW-200DR-20180222-01		15:55	X		GW	X			
7	MW-15-20180222-01		16:35	X		GW	X			
8	MW-104-20180222-01		14:35	X		GW	X			
9	MW-104I-20180222-01	~~2/23/18~~ 2/22/18	16:15	X		GW	X			
10	MW-12SR-20180223-01	2/23/18	09:55	X		GW	X			
11										
12										
13										
14										

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Nicholas Stephens	2/26/18 5:00PM	1. [illegible]	2.28.18 1200
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client FedEx UPS US mail courier Greyhound
other: _____

PROJECT INFORMATION
PROJECT NAME: 1802L36
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: MKARAFIL@AESATLANTA.COM
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

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

STATE PROGRAM (if any): _____
E-mail? ☐ Fax? ☐
DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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

Cooler Receipt Form

Client Name: AES Project: 1802136 Lab Work Order: 25819

A. Shipping/Container Information (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other:_____ Air bill Present: Yes No

Tracking Number: 724931686583

Custody Seal on Cooler/Box Present: Yes (No) Seals Intact: Yes No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam Other:_____

Type of Ice: (Wet) Blue None Ice Intact: (Yes) Melted

Cooler Temperature: 1.4°C Radiation Screened: Yes (No) Chain of Custody Present: (Yes) No

Comments:_____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC			✓	
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected	✓			
Sufficient volume provided	✓			
PAES containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	
Headspace present?	✓			

Comments:_____

Cooler contents examined/received by: LG Date: 2.28.18

Project Manager Review: _____ Date: 2/28/18

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **ERM-Southeast** AES Work Order Number: **1802L36**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☐ Courier ■ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	●	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	●	○		
5.	Custody seals intact on shipping container?	○	○	●		
6.	Temperature blanks present?	●	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	●	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	●	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	●	○	○		
10.	Sampler name and/or signature on COC?	●	○	○		
11.	Were all samples received within holding time?	●	○	○		
12.	TAT marked on the COC?	●	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). MJ 2/23/18

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	●	○	○		
17.	Custody seals present on sample containers?	○	●	○		
18.	Custody seals intact on sample containers?	○	○	●		
19.	Do sample container labels match the COC?	●	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	●	○	○		
21.	Were all of the samples listed on the COC received?	●	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	●	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	●	○	○		
24.	Were samples received in appropriate containers?	●	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	●	○	○		
26.	Were trip blanks submitted?	●	○	○	listed on COC ■ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). MDP 2/23/18

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	●	○	○		
29.	Containers meet preservation guidelines?	○	●	○		
30.	Was pH adjusted at Sample Receipt?	●	○	○		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). MDP 2/23/18

Locked

Analytical Environmental Services, Inc

Date: 13-Mar-18

Client: ERM-Southeast
Project Name: AGL - Macon
Lab Order: 1802L36

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802L36-001A	MW-110D-20180222-01	2/22/2018 2:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/1/2018 2:09:00 PM	03/02/2018
1802L36-001B	MW-110D-20180222-01	2/22/2018 2:20:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00 AM	02/27/2018
1802L36-001B	MW-110D-20180222-01	2/22/2018 2:20:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00 AM	02/28/2018
1802L36-001B	MW-110D-20180222-01	2/22/2018 2:20:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/26/2018 8:00:00 AM	02/27/2018
1802L36-001D	MW-110D-20180222-01	2/22/2018 2:20:00PM	Groundwater	GC Analysis of Gaseous Samples		2/27/2018 10:17:27 AM	02/27/2018
1802L36-001E	MW-110D-20180222-01	2/22/2018 2:20:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 5:48:00 PM	02/27/2018
1802L36-001E	MW-110D-20180222-01	2/22/2018 2:20:00PM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00 PM	03/01/2018
1802L36-001F	MW-110D-20180222-01	2/22/2018 2:20:00PM	Groundwater	Cyanide		3/1/2018 10:30:00 AM	03/01/2018
1802L36-001G	MW-110D-20180222-01	2/22/2018 2:20:00PM	Groundwater	Ferrous Iron			02/23/2018
1802L36-001H	MW-110D-20180222-01	2/22/2018 2:20:00PM	Groundwater	Sulfide by SW9030/9034		3/1/2018 11:10:00 AM	03/01/2018
1802L36-001I	MW-110D-20180222-01	2/22/2018 2:20:00PM	Groundwater	ION SCAN			02/24/2018
1802L36-002A	MW-106-20180222-01	2/22/2018 2:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/1/2018 2:09:00 PM	03/02/2018
1802L36-002B	MW-106-20180222-01	2/22/2018 2:20:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00 AM	02/27/2018
1802L36-002B	MW-106-20180222-01	2/22/2018 2:20:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/26/2018 8:00:00 AM	02/27/2018
1802L36-002D	MW-106-20180222-01	2/22/2018 2:20:00PM	Groundwater	GC Analysis of Gaseous Samples		2/27/2018 10:17:27 AM	02/27/2018
1802L36-002E	MW-106-20180222-01	2/22/2018 2:20:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 5:48:00 PM	02/27/2018
1802L36-002E	MW-106-20180222-01	2/22/2018 2:20:00PM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00 PM	03/01/2018
1802L36-002F	MW-106-20180222-01	2/22/2018 2:20:00PM	Groundwater	Cyanide		3/1/2018 10:30:00 AM	03/01/2018
1802L36-002G	MW-106-20180222-01	2/22/2018 2:20:00PM	Groundwater	Ferrous Iron			02/23/2018
1802L36-002H	MW-106-20180222-01	2/22/2018 2:20:00PM	Groundwater	Sulfide by SW9030/9034		3/1/2018 11:10:00 AM	03/01/2018
1802L36-002I	MW-106-20180222-01	2/22/2018 2:20:00PM	Groundwater	ION SCAN			02/24/2018
1802L36-002I	MW-106-20180222-01	2/22/2018 2:20:00PM	Groundwater	ION SCAN			02/27/2018
1802L36-003A	MW-401-20180222-01	2/22/2018 2:35:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/1/2018 2:09:00 PM	03/02/2018
1802L36-003B	MW-401-20180222-01	2/22/2018 2:35:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00 AM	02/27/2018
1802L36-003B	MW-401-20180222-01	2/22/2018 2:35:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/26/2018 8:00:00 AM	02/27/2018
1802L36-003D	MW-401-20180222-01	2/22/2018 2:35:00PM	Groundwater	GC Analysis of Gaseous Samples		2/27/2018 10:17:27 AM	02/27/2018
1802L36-003E	MW-401-20180222-01	2/22/2018 2:35:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 5:48:00 PM	02/27/2018
1802L36-003E	MW-401-20180222-01	2/22/2018 2:35:00PM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00 PM	03/01/2018
1802L36-003F	MW-401-20180222-01	2/22/2018 2:35:00PM	Groundwater	Cyanide		3/1/2018 10:30:00 AM	03/01/2018

Client: ERM-Southeast
Project Name: AGL - Macon
Lab Order: 1802L36

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802L36-003G	MW-401-20180222-01	2/22/2018 2:35:00PM	Groundwater	Ferrous Iron			02/23/2018
1802L36-003H	MW-401-20180222-01	2/22/2018 2:35:00PM	Groundwater	Sulfide by SW9030/9034		3/1/2018 11:10:00 AM	03/01/2018
1802L36-003I	MW-401-20180222-01	2/22/2018 2:35:00PM	Groundwater	ION SCAN			02/24/2018
1802L36-004A	MW-107-20180222-01	2/22/2018 4:35:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/1/2018 2:09:00 PM	03/02/2018
1802L36-004B	MW-107-20180222-01	2/22/2018 4:35:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00 AM	02/27/2018
1802L36-004B	MW-107-20180222-01	2/22/2018 4:35:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/26/2018 8:00:00 AM	02/27/2018
1802L36-004D	MW-107-20180222-01	2/22/2018 4:35:00PM	Groundwater	GC Analysis of Gaseous Samples		2/27/2018 10:17:27 AM	02/27/2018
1802L36-004E	MW-107-20180222-01	2/22/2018 4:35:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 5:48:00 PM	02/27/2018
1802L36-004E	MW-107-20180222-01	2/22/2018 4:35:00PM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00 PM	03/01/2018
1802L36-004F	MW-107-20180222-01	2/22/2018 4:35:00PM	Groundwater	Cyanide		3/1/2018 10:30:00 AM	03/01/2018
1802L36-004G	MW-107-20180222-01	2/22/2018 4:35:00PM	Groundwater	Ferrous Iron			02/23/2018
1802L36-004H	MW-107-20180222-01	2/22/2018 4:35:00PM	Groundwater	Sulfide by SW9030/9034		3/1/2018 11:10:00 AM	03/01/2018
1802L36-004I	MW-107-20180222-01	2/22/2018 4:35:00PM	Groundwater	ION SCAN			02/24/2018
1802L36-005A	MW-300D-20180222-01	2/22/2018 4:09:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/1/2018 2:09:00 PM	03/02/2018
1802L36-005B	MW-300D-20180222-01	2/22/2018 4:09:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00 AM	02/27/2018
1802L36-005B	MW-300D-20180222-01	2/22/2018 4:09:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/26/2018 8:00:00 AM	02/27/2018
1802L36-005D	MW-300D-20180222-01	2/22/2018 4:09:00PM	Groundwater	GC Analysis of Gaseous Samples		2/27/2018 10:17:27 AM	02/27/2018
1802L36-005E	MW-300D-20180222-01	2/22/2018 4:09:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 5:48:00 PM	02/27/2018
1802L36-005E	MW-300D-20180222-01	2/22/2018 4:09:00PM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00 PM	03/01/2018
1802L36-005F	MW-300D-20180222-01	2/22/2018 4:09:00PM	Groundwater	Cyanide		3/1/2018 10:30:00 AM	03/01/2018
1802L36-005G	MW-300D-20180222-01	2/22/2018 4:09:00PM	Groundwater	Ferrous Iron			02/23/2018
1802L36-005H	MW-300D-20180222-01	2/22/2018 4:09:00PM	Groundwater	Sulfide by SW9030/9034		3/1/2018 11:10:00 AM	03/01/2018
1802L36-005I	MW-300D-20180222-01	2/22/2018 4:09:00PM	Groundwater	ION SCAN			02/24/2018
1802L36-006A	MW-200DR-20180222-01	2/22/2018 3:55:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/1/2018 2:09:00 PM	03/02/2018
1802L36-006B	MW-200DR-20180222-01	2/22/2018 3:55:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00 AM	02/27/2018
1802L36-006B	MW-200DR-20180222-01	2/22/2018 3:55:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00 AM	02/28/2018
1802L36-006B	MW-200DR-20180222-01	2/22/2018 3:55:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/26/2018 8:00:00 AM	02/27/2018
1802L36-006D	MW-200DR-20180222-01	2/22/2018 3:55:00PM	Groundwater	GC Analysis of Gaseous Samples		2/27/2018 10:17:27 AM	02/27/2018
1802L36-006E	MW-200DR-20180222-01	2/22/2018 3:55:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 5:48:00 PM	02/27/2018

Analytical Environmental Services, Inc

Date: 13-Mar-18

Client: ERM-Southeast
Project Name: AGL - Macon
Lab Order: 1802L36

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802L36-006E	MW-200DR-20180222-01	2/22/2018 3:55:00PM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00 PM	03/01/2018
1802L36-006F	MW-200DR-20180222-01	2/22/2018 3:55:00PM	Groundwater	Cyanide		3/1/2018 10:30:00 AM	03/01/2018
1802L36-006G	MW-200DR-20180222-01	2/22/2018 3:55:00PM	Groundwater	Ferrous Iron			02/23/2018
1802L36-006H	MW-200DR-20180222-01	2/22/2018 3:55:00PM	Groundwater	Sulfide by SW9030/9034		3/1/2018 11:10:00 AM	03/01/2018
1802L36-006I	MW-200DR-20180222-01	2/22/2018 3:55:00PM	Groundwater	ION SCAN			02/24/2018
1802L36-007A	MW-15-20180222-01	2/22/2018 4:35:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/1/2018 2:09:00 PM	03/02/2018
1802L36-007B	MW-15-20180222-01	2/22/2018 4:35:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00 AM	02/27/2018
1802L36-007B	MW-15-20180222-01	2/22/2018 4:35:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/26/2018 8:00:00 AM	02/27/2018
1802L36-007D	MW-15-20180222-01	2/22/2018 4:35:00PM	Groundwater	GC Analysis of Gaseous Samples		2/27/2018 10:17:27 AM	02/27/2018
1802L36-007E	MW-15-20180222-01	2/22/2018 4:35:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 5:48:00 PM	02/27/2018
1802L36-007E	MW-15-20180222-01	2/22/2018 4:35:00PM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00 PM	03/01/2018
1802L36-007F	MW-15-20180222-01	2/22/2018 4:35:00PM	Groundwater	Cyanide		3/1/2018 10:30:00 AM	03/01/2018
1802L36-007G	MW-15-20180222-01	2/22/2018 4:35:00PM	Groundwater	Ferrous Iron			02/23/2018
1802L36-007H	MW-15-20180222-01	2/22/2018 4:35:00PM	Groundwater	Sulfide by SW9030/9034		3/1/2018 11:10:00 AM	03/01/2018
1802L36-007I	MW-15-20180222-01	2/22/2018 4:35:00PM	Groundwater	ION SCAN			02/24/2018
1802L36-007I	MW-15-20180222-01	2/22/2018 4:35:00PM	Groundwater	ION SCAN			02/27/2018
1802L36-008A	MW-104-20180222-01	2/22/2018 2:35:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/1/2018 2:09:00 PM	03/02/2018
1802L36-008B	MW-104-20180222-01	2/22/2018 2:35:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00 AM	02/27/2018
1802L36-008B	MW-104-20180222-01	2/22/2018 2:35:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/26/2018 8:00:00 AM	02/27/2018
1802L36-008D	MW-104-20180222-01	2/22/2018 2:35:00PM	Groundwater	GC Analysis of Gaseous Samples		2/27/2018 10:17:27 AM	02/27/2018
1802L36-008E	MW-104-20180222-01	2/22/2018 2:35:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 5:48:00 PM	02/27/2018
1802L36-008E	MW-104-20180222-01	2/22/2018 2:35:00PM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00 PM	03/01/2018
1802L36-008F	MW-104-20180222-01	2/22/2018 2:35:00PM	Groundwater	Cyanide		3/1/2018 10:30:00 AM	03/01/2018
1802L36-008G	MW-104-20180222-01	2/22/2018 2:35:00PM	Groundwater	Ferrous Iron			02/23/2018
1802L36-008H	MW-104-20180222-01	2/22/2018 2:35:00PM	Groundwater	Sulfide by SW9030/9034		3/1/2018 11:10:00 AM	03/01/2018
1802L36-008I	MW-104-20180222-01	2/22/2018 2:35:00PM	Groundwater	ION SCAN			02/24/2018
1802L36-009A	MW-104I-20180222-01	2/22/2018 4:15:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/1/2018 2:09:00 PM	03/02/2018
1802L36-009B	MW-104I-20180222-01	2/22/2018 4:15:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00 AM	02/27/2018
1802L36-009B	MW-104I-20180222-01	2/22/2018 4:15:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/26/2018 8:00:00 AM	02/28/2018

Client: ERM-Southeast
Project Name: AGL - Macon
Lab Order: 1802L36

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802L36-009D	MW-104I-20180222-01	2/22/2018 4:15:00PM	Groundwater	GC Analysis of Gaseous Samples		2/27/2018 10:17:27 AM	02/27/2018
1802L36-009E	MW-104I-20180222-01	2/22/2018 4:15:00PM	Groundwater	TOTAL METALS BY ICP		2/26/2018 5:48:00 PM	02/27/2018
1802L36-009E	MW-104I-20180222-01	2/22/2018 4:15:00PM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00 PM	03/01/2018
1802L36-009F	MW-104I-20180222-01	2/22/2018 4:15:00PM	Groundwater	Cyanide		3/1/2018 10:30:00 AM	03/01/2018
1802L36-009G	MW-104I-20180222-01	2/22/2018 4:15:00PM	Groundwater	Ferrous Iron			02/23/2018
1802L36-009H	MW-104I-20180222-01	2/22/2018 4:15:00PM	Groundwater	Sulfide by SW9030/9034		3/1/2018 12:25:00 PM	03/01/2018
1802L36-009I	MW-104I-20180222-01	2/22/2018 4:15:00PM	Groundwater	ION SCAN			02/24/2018
1802L36-010A	MW-12DRR-20180223-01	2/23/2018 9:55:00AM	Groundwater	Volatile Organic Compounds by GC/MS		3/1/2018 2:09:00 PM	03/01/2018
1802L36-010B	MW-12DRR-20180223-01	2/23/2018 9:55:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00 AM	02/27/2018
1802L36-010B	MW-12DRR-20180223-01	2/23/2018 9:55:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00 AM	02/28/2018
1802L36-010B	MW-12DRR-20180223-01	2/23/2018 9:55:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00 AM	03/01/2018
1802L36-010B	MW-12DRR-20180223-01	2/23/2018 9:55:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		2/26/2018 8:00:00 AM	02/28/2018
1802L36-010D	MW-12DRR-20180223-01	2/23/2018 9:55:00AM	Groundwater	GC Analysis of Gaseous Samples		2/27/2018 10:17:27 AM	02/27/2018
1802L36-010E	MW-12DRR-20180223-01	2/23/2018 9:55:00AM	Groundwater	TOTAL METALS BY ICP		2/26/2018 5:48:00 PM	02/27/2018
1802L36-010E	MW-12DRR-20180223-01	2/23/2018 9:55:00AM	Groundwater	TOTAL MERCURY		2/28/2018 10:39:00 PM	03/01/2018
1802L36-010F	MW-12DRR-20180223-01	2/23/2018 9:55:00AM	Groundwater	Cyanide		3/1/2018 10:30:00 AM	03/01/2018
1802L36-010G	MW-12DRR-20180223-01	2/23/2018 9:55:00AM	Groundwater	Ferrous Iron			02/23/2018
1802L36-010H	MW-12DRR-20180223-01	2/23/2018 9:55:00AM	Groundwater	Sulfide by SW9030/9034		3/1/2018 12:25:00 PM	03/01/2018
1802L36-010I	MW-12DRR-20180223-01	2/23/2018 9:55:00AM	Groundwater	ION SCAN			02/24/2018
1802L36-011A	TB-1-20180223-01	2/23/2018 12:01:00AM	Aqueous	Volatile Organic Compounds by GC/MS		3/1/2018 2:09:00 PM	03/02/2018
1802L36-013A	TB-3-20180223-01	2/23/2018 12:01:00AM	Aqueous	Volatile Organic Compounds by GC/MS		3/1/2018 2:09:00 PM	03/02/2018

AES, Inc.
3080 Presidential Drive
Atlanta GA 30340

pH Adjustment Sheet

AES Sample ID number	Test Requested	pH as Received	Required pH	Preservative Required	Lot # of Preservative	Amount Added mL or Pellets*	Final pH	Tech's Initials	Date	Time
1802L36-001F	Cyanide	9	>12	NaOH	153164	mL 10 Pellets	12	MP	8/23	18:31
" -007F	"	"	"	"	"	mL " Pellets	"	MP	"	"
" -008F	"	"	"	"	"	mL " Pellets	"	MP	"	"
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
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						mL Pellets				
						mL Pellets				
						mL Pellets				

*** Number of Pellets when adding NAOH**

Client: ERM-Southeast
Project Name: AGL - Macon
Workorder: 1802L36

ANALYTICAL QC SUMMARY REPORT

BatchID: 256409

Sample ID: **MB-256409** Client ID: Units: **ug/L** Prep Date: **02/26/2018** Run No: **364041**
SampleType: **MBLK** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256409** Analysis Date: **02/27/2018** Seq No: **8046595**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,4-Dimethylphenol	BRL	10									
2-Methylphenol	BRL	10									
3,4-Methylphenol	BRL	10									
Phenol	BRL	10									
Surr: 2,4,6-Tribromophenol	101.3	0	100.0		101	51.4	138				
Surr: 2-Fluorobiphenyl	48.40	0	50.00		96.8	44.6	119				
Surr: 2-Fluorophenol	61.54	0	100.0		61.5	27.2	120				
Surr: 4-Terphenyl-d14	52.71	0	50.00		105	47.1	136				
Surr: Nitrobenzene-d5	43.04	0	50.00		86.1	40.7	119				
Surr: Phenol-d5	41.30	0	100.0		41.3	18.1	120				

Sample ID: **LCS-256409** Client ID: Units: **ug/L** Prep Date: **02/26/2018** Run No: **364041**
SampleType: **LCS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256409** Analysis Date: **02/27/2018** Seq No: **8046596**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	41.48	10	100.0		41.5	26.4	120				
Surr: 2,4,6-Tribromophenol	99.43	0	100.0		99.4	51.4	138				
Surr: 2-Fluorobiphenyl	50.20	0	50.00		100	44.6	119				
Surr: 2-Fluorophenol	59.78	0	100.0		59.8	27.2	120				
Surr: 4-Terphenyl-d14	57.13	0	50.00		114	47.1	136				
Surr: Nitrobenzene-d5	42.62	0	50.00		85.2	40.7	119				
Surr: Phenol-d5	40.41	0	100.0		40.4	18.1	120				

Sample ID: **LCSD-256409** Client ID: Units: **ug/L** Prep Date: **02/26/2018** Run No: **364041**
SampleType: **LCSD** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256409** Analysis Date: **02/27/2018** Seq No: **8046597**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	41.23	10	100.0		41.2	26.4	120	41.48	0.605	38	

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: ERM-Southeast
Project Name: AGL - Macon
Workorder: 1802L36

ANALYTICAL QC SUMMARY REPORT

BatchID: 256409

Sample ID: **LCSD-256409** Client ID:
SampleType: **LCSD** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**
Units: **ug/L** Prep Date: **02/26/2018** Run No: **364041**
BatchID: **256409** Analysis Date: **02/27/2018** Seq No: **8046597**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 2,4,6-Tribromophenol	105.0	0	100.0		105	51.4	138	99.43	0	0	
Surr: 2-Fluorobiphenyl	52.41	0	50.00		105	44.6	119	50.20	0	0	
Surr: 2-Fluorophenol	62.75	0	100.0		62.8	27.2	120	59.78	0	0	
Surr: 4-Terphenyl-d14	58.99	0	50.00		118	47.1	136	57.13	0	0	
Surr: Nitrobenzene-d5	45.38	0	50.00		90.8	40.7	119	42.62	0	0	
Surr: Phenol-d5	41.81	0	100.0		41.8	18.1	120	40.41	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: ERM-Southeast
Project Name: AGL - Macon
Workorder: 1802L36

ANALYTICAL QC SUMMARY REPORT

BatchID: 256410

Sample ID: **MB-256410** Client ID: Units: **ug/L** Prep Date: **02/26/2018** Run No: **364040**
SampleType: **MBLK** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256410** Analysis Date: **02/27/2018** Seq No: **8045666**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	BRL	0.50									
Acenaphthylene	BRL	1.0									
Anthracene	BRL	0.050									
Benz(a)anthracene	BRL	0.050									
Benzo(a)pyrene	BRL	0.050									
Benzo(b)fluoranthene	BRL	0.10									
Benzo(g,h,i)perylene	BRL	0.10									
Benzo(k)fluoranthene	BRL	0.050									
Chrysene	BRL	0.050									
Dibenz(a,h)anthracene	BRL	0.10									
Fluoranthene	BRL	0.10									
Fluorene	BRL	0.10									
Indeno(1,2,3-cd)pyrene	BRL	0.050									
Naphthalene	BRL	0.50									
Phenanthrene	BRL	0.050									
Pyrene	BRL	0.050									
Surr: 4-Terphenyl-d14	1.540	0	2.000		77.0	59.9	128				

Sample ID: **LCS-256410** Client ID: Units: **ug/L** Prep Date: **02/26/2018** Run No: **364040**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256410** Analysis Date: **02/27/2018** Seq No: **8045667**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.768	0.50	2.000		88.4	64.7	120				
Acenaphthylene	1.825	1.0	2.000		91.2	63.2	120				
Anthracene	1.962	0.050	2.000		98.1	69.3	125				
Benz(a)anthracene	2.099	0.050	2.000		105	71.1	141				
Benzo(a)pyrene	2.012	0.050	2.000		101	67.2	131				
Benzo(b)fluoranthene	2.025	0.10	2.000		101	66.1	134				

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: ERM-Southeast
Project Name: AGL - Macon
Workorder: 1802L36

ANALYTICAL QC SUMMARY REPORT

BatchID: 256410

Sample ID: **LCS-256410** Client ID: Units: **ug/L** Prep Date: **02/26/2018** Run No: **364040**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256410** Analysis Date: **02/27/2018** Seq No: **8045667**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(g,h,i)perylene	1.893	0.10	2.000		94.7	66.1	128				
Benzo(k)fluoranthene	1.674	0.050	2.000		83.7	67.7	133				
Chrysene	1.939	0.050	2.000		97.0	71.3	137				
Dibenz(a,h)anthracene	1.862	0.10	2.000		93.1	59.7	125				
Fluoranthene	1.928	0.10	2.000		96.4	72.3	129				
Fluorene	1.976	0.10	2.000		98.8	69.2	120				
Indeno(1,2,3-cd)pyrene	1.972	0.050	2.000		98.6	66.4	127				
Naphthalene	1.655	0.50	2.000		82.7	56.8	120				
Phenanthrene	1.815	0.050	2.000		90.7	70.9	120				
Pyrene	2.001	0.050	2.000		100	68.4	138				
Surr: 4-Terphenyl-d14	2.318	0	2.000		116	59.9	128				

Sample ID: **1802K33-001BMS** Client ID: Units: **ug/L** Prep Date: **02/26/2018** Run No: **364040**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256410** Analysis Date: **02/27/2018** Seq No: **8045669**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.715	0.50	2.000	1.325	19.5	61.4	120				S
Acenaphthylene	BRL	1.0	2.000	0.2342	23.6	63.9	120				S
Anthracene	0.6195	0.050	2.000	0.1266	24.6	65.3	120				S
Benz(a)anthracene	0.6018	0.050	2.000		30.1	76.7	124				S
Benzo(a)pyrene	0.5077	0.050	2.000		25.4	58.5	120				S
Benzo(b)fluoranthene	0.5167	0.10	2.000		25.8	52.6	121				S
Benzo(g,h,i)perylene	0.4576	0.10	2.000		22.9	44.2	120				S
Benzo(k)fluoranthene	0.3880	0.050	2.000		19.4	59	120				S
Chrysene	0.4964	0.050	2.000		24.8	65	122				S
Dibenz(a,h)anthracene	0.4416	0.10	2.000		22.1	38.2	120				S
Fluoranthene	0.5587	0.10	2.000		27.9	71.7	118				S
Fluorene	0.7478	0.10	2.000	0.2399	25.4	65.6	120				S

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: ERM-Southeast
Project Name: AGL - Macon
Workorder: 1802L36

ANALYTICAL QC SUMMARY REPORT

BatchID: 256410

Sample ID: **1802K33-001BMS** Client ID:
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**
Units: **ug/L** Prep Date: **02/26/2018** Run No: **364040**
BatchID: **256410** Analysis Date: **02/27/2018** Seq No: **8045669**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Indeno(1,2,3-cd)pyrene	0.4621	0.050	2.000		23.1	46.6	120				S
Naphthalene	0.7957	0.50	2.000	0.06525	36.5	57.3	120				S
Phenanthrene	0.5065	0.050	2.000		25.3	65.6	120				S
Pyrene	0.7673	0.050	2.000	0.2614	25.3	69	121				S
Surr: 4-Terphenyl-d14	0.6217	0	2.000		31.1	59.9	128				S

Sample ID: **1802K33-001BMSD** Client ID:
SampleType: **MSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**
Units: **ug/L** Prep Date: **02/26/2018** Run No: **364040**
BatchID: **256410** Analysis Date: **02/27/2018** Seq No: **8045670**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	2.423	0.50	2.000	1.325	54.9	61.4	120	1.715	34.2	24.4	SR
Acenaphthylene	1.015	1.0	2.000	0.2342	39.0	63.9	120	0.7056	36.0	27.9	SR
Anthracene	0.9040	0.050	2.000	0.1266	38.9	65.3	120	0.6195	37.4	26.3	SR
Benz(a)anthracene	0.8962	0.050	2.000		44.8	76.7	124	0.6018	39.3	25	SR
Benzo(a)pyrene	0.7523	0.050	2.000		37.6	58.5	120	0.5077	38.8	23.5	SR
Benzo(b)fluoranthene	0.7664	0.10	2.000		38.3	52.6	121	0.5167	38.9	24	SR
Benzo(g,h,i)perylene	0.6599	0.10	2.000		33.0	44.2	120	0.4576	36.2	32.1	SR
Benzo(k)fluoranthene	0.5740	0.050	2.000		28.7	59	120	0.3880	38.7	19.6	SR
Chrysene	0.7364	0.050	2.000		36.8	65	122	0.4964	38.9	23	SR
Dibenz(a,h)anthracene	0.6713	0.10	2.000		33.6	38.2	120	0.4416	41.3	31.7	SR
Fluoranthene	0.8215	0.10	2.000		41.1	71.7	118	0.5587	38.1	23	SR
Fluorene	1.050	0.10	2.000	0.2399	40.5	65.6	120	0.7478	33.6	25	SR
Indeno(1,2,3-cd)pyrene	0.6581	0.050	2.000		32.9	46.6	120	0.4621	35.0	32.4	SR
Naphthalene	0.7515	0.50	2.000	0.06525	34.3	57.3	120	0.7957	5.72	27.2	S
Phenanthrene	0.7322	0.050	2.000		36.6	65.6	120	0.5065	36.4	23.5	SR
Pyrene	1.106	0.050	2.000	0.2614	42.2	69	121	0.7673	36.1	23.8	SR
Surr: 4-Terphenyl-d14	0.8916	0	2.000		44.6	59.9	128	0.6217	0	0	S

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: ERM-Southeast
Project Name: AGL - Macon
Workorder: 1802L36

ANALYTICAL QC SUMMARY REPORT

BatchID: 256427

Sample ID: **MB-256427** Client ID: Units: **mg/L** Prep Date: **02/26/2018** Run No: **364107**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010D** BatchID: **256427** Analysis Date: **02/27/2018** Seq No: **8047349**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	0.0200									
Arsenic	BRL	0.0500									
Barium	BRL	0.0200									
Beryllium	BRL	0.0100									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Copper	BRL	0.0100									
Iron	BRL	0.100									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Zinc	BRL	0.0200									

Sample ID: **LCS-256427** Client ID: Units: **mg/L** Prep Date: **02/26/2018** Run No: **364107**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010D** BatchID: **256427** Analysis Date: **02/27/2018** Seq No: **8047350**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9568	0.0200	1.000		95.7	80	120				
Arsenic	0.9368	0.0500	1.000		93.7	80	120				
Barium	0.9300	0.0200	1.000		93.0	80	120				
Beryllium	0.9273	0.0100	1.000		92.7	80	120				
Cadmium	0.9358	0.0050	1.000		93.6	80	120				
Chromium	0.9182	0.0100	1.000		91.8	80	120				
Copper	0.9152	0.0100	1.000		91.5	80	120				
Iron	9.087	0.100	10.00		90.9	80	120				
Lead	0.9443	0.0100	1.000		94.4	80	120				
Nickel	0.9340	0.0200	1.000		93.4	80	120				
Zinc	0.9238	0.0200	1.000		92.4	80	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: ERM-Southeast
Project Name: AGL - Macon
Workorder: 1802L36

ANALYTICAL QC SUMMARY REPORT

BatchID: 256427

Sample ID: **1802L36-001EMS** Client ID: **MW-110D-20180222-01** Units: **mg/L** Prep Date: **02/26/2018** Run No: **364107**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010D** BatchID: **256427** Analysis Date: **02/27/2018** Seq No: **8047352**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9317	0.0200	1.000		93.2	75	125				
Arsenic	0.9189	0.0500	1.000		91.9	75	125				
Barium	3.653	0.0200	1.000	2.798	85.5	75	125				
Beryllium	0.9020	0.0100	1.000	0.002517	90.0	75	125				
Cadmium	0.9055	0.0050	1.000		90.6	75	125				
Chromium	0.8973	0.0100	1.000		89.7	75	125				
Copper	0.9124	0.0100	1.000		91.2	75	125				
Iron	17.90	0.100	10.00	9.218	86.8	75	125				
Lead	0.9027	0.0100	1.000		90.3	75	125				
Nickel	0.9475	0.0200	1.000	0.07558	87.2	75	125				
Zinc	0.8780	0.0200	1.000	0.007085	87.1	75	125				

Sample ID: **1802L36-001EMSD** Client ID: **MW-110D-20180222-01** Units: **mg/L** Prep Date: **02/26/2018** Run No: **364107**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010D** BatchID: **256427** Analysis Date: **02/27/2018** Seq No: **8047353**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9349	0.0200	1.000		93.5	75	125	0.9317	0.335	20	
Arsenic	0.9197	0.0500	1.000		92.0	75	125	0.9189	0.084	20	
Barium	3.671	0.0200	1.000	2.798	87.3	75	125	3.653	0.498	20	
Beryllium	0.9033	0.0100	1.000	0.002517	90.1	75	125	0.9020	0.137	20	
Cadmium	0.9094	0.0050	1.000		90.9	75	125	0.9055	0.422	20	
Chromium	0.8960	0.0100	1.000		89.6	75	125	0.8973	0.151	20	
Copper	0.9050	0.0100	1.000		90.5	75	125	0.9124	0.805	20	
Iron	17.96	0.100	10.00	9.218	87.4	75	125	17.90	0.334	20	
Lead	0.8975	0.0100	1.000		89.8	75	125	0.9027	0.576	20	
Nickel	0.9434	0.0200	1.000	0.07558	86.8	75	125	0.9475	0.437	20	
Zinc	0.8761	0.0200	1.000	0.007085	86.9	75	125	0.8780	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: ERM-Southeast
Project Name: AGL - Macon
Workorder: 1802L36

ANALYTICAL QC SUMMARY REPORT

BatchID: 256509

Sample ID: **MB-256509**	Client ID:					Units: **ug/L**		Prep Date: **02/27/2018**		Run No: **364102**	
SampleType: **MBLK**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**					BatchID: **256509**		Analysis Date: **02/27/2018**		Seq No: **8047220**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	BRL	4.0									

Sample ID: **LCS-256509**	Client ID:					Units: **ug/L**		Prep Date: **02/27/2018**		Run No: **364102**	
SampleType: **LCS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**					BatchID: **256509**		Analysis Date: **02/27/2018**		Seq No: **8047221**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	122.8	4.0	200.0		61.4	45.1	115				

Sample ID: **LCSD-256509**	Client ID:					Units: **ug/L**		Prep Date: **02/27/2018**		Run No: **364102**	
SampleType: **LCSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**					BatchID: **256509**		Analysis Date: **02/27/2018**		Seq No: **8047222**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	117.1	4.0	200.0		58.5	45.1	115	122.8	4.76	20	

Sample ID: **1802K33-001DMS**	Client ID:					Units: **ug/L**		Prep Date: **02/27/2018**		Run No: **364102**	
SampleType: **MS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**					BatchID: **256509**		Analysis Date: **02/27/2018**		Seq No: **8047225**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	282.1	4.0	200.0	159.9	61.1	42	115				

Sample ID: **1802K33-001DMSD**	Client ID:					Units: **ug/L**		Prep Date: **02/27/2018**		Run No: **364102**	
SampleType: **MSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**					BatchID: **256509**		Analysis Date: **02/27/2018**		Seq No: **8047226**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	286.1	4.0	200.0	159.9	63.1	42	115	282.1	1.39	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: ERM-Southeast
Project Name: AGL - Macon
Workorder: 1802L36

ANALYTICAL QC SUMMARY REPORT

BatchID: 256614

Sample ID: **MB-256614**	Client ID:					Units: **mg/L**		Prep Date: **02/28/2018**		Run No: **364154**	
SampleType: **MBLK**	TestCode: **Cyanide SW9014**					BatchID: **256614**		Analysis Date: **02/28/2018**		Seq No: **8048583**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	BRL	0.010									

Sample ID: **LCS-256614**	Client ID:					Units: **mg/L**		Prep Date: **02/28/2018**		Run No: **364154**	
SampleType: **LCS**	TestCode: **Cyanide SW9014**					BatchID: **256614**		Analysis Date: **02/28/2018**		Seq No: **8048584**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2640	0.010	0.2500		106	85	115				

Sample ID: **1802K99-013FMS**	Client ID:					Units: **mg/L**		Prep Date: **02/28/2018**		Run No: **364154**	
SampleType: **MS**	TestCode: **Cyanide SW9014**					BatchID: **256614**		Analysis Date: **02/28/2018**		Seq No: **8048593**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.1440	0.010	0.2500		57.6	70	130				S

Sample ID: **1802K99-013FMSD**	Client ID:					Units: **mg/L**		Prep Date: **02/28/2018**		Run No: **364154**	
SampleType: **MSD**	TestCode: **Cyanide SW9014**					BatchID: **256614**		Analysis Date: **02/28/2018**		Seq No: **8048594**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.1620	0.010	0.2500		64.8	70	130	0.1440	11.8	20	S

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: ERM-Southeast
Project Name: AGL - Macon
Workorder: 1802L36

ANALYTICAL QC SUMMARY REPORT

BatchID: 256629

Sample ID: **MB-256629**	Client ID:				Units: **mg/L**		Prep Date: **02/28/2018**		Run No: **364168**
SampleType: **MBLK**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **256629**		Analysis Date: **02/28/2018**		Seq No: **8048944**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	2.00									

Sample ID: **LCS-256629**	Client ID:				Units: **mg/L**		Prep Date: **02/28/2018**		Run No: **364168**
SampleType: **LCS**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **256629**		Analysis Date: **02/28/2018**		Seq No: **8048945**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	396.0	2.00	396.0		100	70	130				

Sample ID: **1802K99-009HMS**	Client ID:				Units: **mg/L**		Prep Date: **02/28/2018**		Run No: **364168**
SampleType: **MS**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **256629**		Analysis Date: **02/28/2018**		Seq No: **8048953**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	17.40	2.00	19.80		87.9	62.8	125				

Sample ID: **1802K99-009HMSD**	Client ID:				Units: **mg/L**		Prep Date: **02/28/2018**		Run No: **364168**
SampleType: **MSD**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **256629**		Analysis Date: **02/28/2018**		Seq No: **8048954**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	17.80	2.00	19.80		89.9	62.8	125	17.40	2.27	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: ERM-Southeast
Project Name: AGL - Macon
Workorder: 1802L36

ANALYTICAL QC SUMMARY REPORT

BatchID: 256648

Sample ID: **MB-256648**	Client ID:			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364229**
SampleType: **MBLK**	TestCode: **Mercury, Total SW7470A**			BatchID: **256648**	Analysis Date: **03/01/2018**	Seq No: **8050514**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020									

Sample ID: **LCS-256648**	Client ID:			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364229**
SampleType: **LCS**	TestCode: **Mercury, Total SW7470A**			BatchID: **256648**	Analysis Date: **03/01/2018**	Seq No: **8050515**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004049	0.00020	0.0040		101	80	120				

Sample ID: **1802L36-001EMS**	Client ID: **MW-110D-20180222-01**			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364229**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**			BatchID: **256648**	Analysis Date: **03/01/2018**	Seq No: **8050517**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004017	0.00020	0.0040		100	70	130				

Sample ID: **1802L36-001EMSD**	Client ID: **MW-110D-20180222-01**			Units: **mg/L**	Prep Date: **02/28/2018**	Run No: **364229**
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**			BatchID: **256648**	Analysis Date: **03/01/2018**	Seq No: **8050518**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004067	0.00020	0.0040		102	70	130	0.004017	1.22	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: ERM-Southeast
Project Name: AGL - Macon
Workorder: 1802L36

ANALYTICAL QC SUMMARY REPORT

BatchID: 256698

Sample ID: **MB-256698**	Client ID:		Units: **ug/L**	Prep Date: **03/01/2018**	Run No: **364275**
SampleType: **MBLK**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **256698**	Analysis Date: **03/01/2018**	Seq No: **8051633**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	5.0									
Carbon disulfide	BRL	5.0									
Ethylbenzene	BRL	5.0									
Toluene	BRL	5.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	43.92	0	50.00		87.8	68	127				
Surr: Dibromofluoromethane	52.43	0	50.00		105	84.4	122				
Surr: Toluene-d8	51.22	0	50.00		102	80.1	116				

Sample ID: **LCS-256698**	Client ID:		Units: **ug/L**	Prep Date: **03/01/2018**	Run No: **364275**
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **256698**	Analysis Date: **03/01/2018**	Seq No: **8052227**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	41.49	5.0	50.00		83.0	73.7	126				
Toluene	42.28	5.0	50.00		84.6	76.8	125				
Surr: 4-Bromofluorobenzene	42.31	0	50.00		84.6	68	127				
Surr: Dibromofluoromethane	51.82	0	50.00		104	84.4	122				
Surr: Toluene-d8	50.58	0	50.00		101	80.1	116				

Sample ID: **1802L36-010AMS**	Client ID: **MW-12DRR-20180223-01**		Units: **ug/L**	Prep Date: **03/01/2018**	Run No: **364275**
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **256698**	Analysis Date: **03/02/2018**	Seq No: **8052253**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	588.9	50	500.0	106.6	96.5	66.1	137				
Toluene	465.1	50	500.0		93.0	63.8	141				
Surr: 4-Bromofluorobenzene	443.6	0	500.0		88.7	68	127				
Surr: Dibromofluoromethane	522.4	0	500.0		104	84.4	122				
Surr: Toluene-d8	505.5	0	500.0		101	80.1	116				

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: ERM-Southeast
Project Name: AGL - Macon
Workorder: 1802L36

ANALYTICAL QC SUMMARY REPORT

BatchID: 256698

Sample ID: **1802L36-010AMSD** Client ID: **MW-12DRR-20180223-01** Units: **ug/L** Prep Date: **03/01/2018** Run No: **364275**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256698** Analysis Date: **03/02/2018** Seq No: **8052261**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	578.3	50	500.0	106.6	94.3	66.1	137	588.9	1.82	20	
Toluene	460.6	50	500.0		92.1	63.8	141	465.1	0.972	20	
Surr: 4-Bromofluorobenzene	432.0	0	500.0		86.4	68	127	443.6	0	0	
Surr: Dibromofluoromethane	509.2	0	500.0		102	84.4	122	522.4	0	0	
Surr: Toluene-d8	496.2	0	500.0		99.2	80.1	116	505.5	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: ERM-Southeast
Project Name: AGL - Macon
Workorder: 1802L36

ANALYTICAL QC SUMMARY REPORT

BatchID: R363981

Sample ID: **MB-R363981**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363981**	
SampleType: **MBLK**	TestCode: **Ferrous Iron**					BatchID: **R363981**		Analysis Date: **02/23/2018**		Seq No: **8043890**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R363981**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **363981**	
SampleType: **LCS**	TestCode: **Ferrous Iron**					BatchID: **R363981**		Analysis Date: **02/23/2018**		Seq No: **8043891**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5190	0.100	0.5000		104	85	115				

Sample ID: **1802L36-002GMS**	Client ID: **MW-106-20180222-01**					Units: **mg/L**		Prep Date:		Run No: **363981**	
SampleType: **MS**	TestCode: **Ferrous Iron**					BatchID: **R363981**		Analysis Date: **02/23/2018**		Seq No: **8043909**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5080	0.100	0.5000		102	80	120				

Sample ID: **1802L36-002GMSD**	Client ID: **MW-106-20180222-01**					Units: **mg/L**		Prep Date:		Run No: **363981**	
SampleType: **MSD**	TestCode: **Ferrous Iron**					BatchID: **R363981**		Analysis Date: **02/23/2018**		Seq No: **8043913**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5170	0.100	0.5000		103	80	120	0.5080	1.76	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: ERM-Southeast
Project Name: AGL - Macon
Workorder: 1802L36

ANALYTICAL QC SUMMARY REPORT

BatchID: R364010

Sample ID: **MB-R364010**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **364010**	
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**				BatchID: **R364010**		Analysis Date: **02/24/2018**		Seq No: **8044908**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R364010**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **364010**	
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**				BatchID: **R364010**		Analysis Date: **02/24/2018**		Seq No: **8044907**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.381	0.25	5.000		108	90	110				
Sulfate	24.46	1.0	25.00		97.8	90	110				

Sample ID: **1802M41-003EMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **364010**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R364010**		Analysis Date: **02/24/2018**		Seq No: **8044931**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	53.38	2.5	50.00	0.9641	105	90	110				
Sulfate	293.5	10	250.0	47.51	98.4	90	110				

Sample ID: **1802M41-004EMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **364010**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R364010**		Analysis Date: **02/24/2018**		Seq No: **8044935**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	50.61	2.5	50.00		101	90	110				
Sulfate	285.6	10	250.0	33.67	101	90	110				

Sample ID: **1802M41-003EMSD**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **364010**	
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**				BatchID: **R364010**		Analysis Date: **02/24/2018**		Seq No: **8044932**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	53.76	2.5	50.00	0.9641	106	90	110	53.38	0.717	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: ERM-Southeast
Project Name: AGL - Macon
Workorder: 1802L36

ANALYTICAL QC SUMMARY REPORT

BatchID: R364010

Sample ID: **1802M41-003EMSD** Client ID:
SampleType: **MSD** TestCode: **ION SCAN SW9056A**
Units: **mg/L** Prep Date: Run No: **364010**
BatchID: **R364010** Analysis Date: **02/24/2018** Seq No: **8044932**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	292.0	10	250.0	47.51	97.8	90	110	293.5	0.517	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: ERM-Southeast
Project Name: AGL - Macon
Workorder: 1802L36

ANALYTICAL QC SUMMARY REPORT

BatchID: R364017

Sample ID: **MB-R364017**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **364017**
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**			BatchID: **R364017**	Analysis Date: **02/24/2018**		Seq No: **8045030**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R364017**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **364017**
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**			BatchID: **R364017**	Analysis Date: **02/24/2018**		Seq No: **8045029**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.200	0.25	5.000		104	90	110				
Sulfate	25.91	1.0	25.00		104	90	110				

Sample ID: **1802L36-010IMS**	Client ID: **MW-12DRR-20180223-01**			Units: **mg/L**	Prep Date:		Run No: **364017**
SampleType: **MS**	TestCode: **ION SCAN SW9056A**			BatchID: **R364017**	Analysis Date: **02/25/2018**		Seq No: **8045082**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	54.93	2.5	50.00		110	90	110				H
Sulfate	270.7	10	250.0	11.73	104	90	110				

Sample ID: **1802M17-005AMS**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **364017**
SampleType: **MS**	TestCode: **ION SCAN SW9056A**			BatchID: **R364017**	Analysis Date: **02/25/2018**		Seq No: **8045086**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	54.06	2.5	50.00	0.7399	107	90	110				H
Sulfate	253.0	10	250.0	2.931	100	90	110				

Sample ID: **1802L36-010IMSD**	Client ID: **MW-12DRR-20180223-01**			Units: **mg/L**	Prep Date:		Run No: **364017**
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**			BatchID: **R364017**	Analysis Date: **02/25/2018**		Seq No: **8045083**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	55.76	2.5	50.00		112	90	110	54.93	1.50	20	SH

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: ERM-Southeast
Project Name: AGL - Macon
Workorder: 1802L36

ANALYTICAL QC SUMMARY REPORT

BatchID: R364017

Sample ID: **1802L36-010IMSD** Client ID: **MW-12DRR-20180223-01** Units: **mg/L** Prep Date: Run No: **364017**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R364017** Analysis Date: **02/25/2018** Seq No: **8045083**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	268.9	10	250.0	11.73	103	90	110	270.7	0.645	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.

March 16, 2018

Adria Reimer
ERM-Southeast

3200 Windy Hill Rd
Atlanta GA 30339

RE: AGL-Macon

Dear Adria Reimer: Order No: 1802M41

Analytical Environmental Services, Inc. received 6 samples on February 23, 2018 4:18 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's accreditations are as follows:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.
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.

Sincerely,

Mirzeta Kararic

Mirzeta Kararic

Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1802M41

Date: 02.23.2018 Page 1 of 1

COMPANY:	ADDRESS:
ERM	3200 Windy Hill Rd SE Atlanta, GA 30339
PHONE: 678-486-2700	EMAIL: Adria.Reimer@erm.com
SAMPLED BY: A. Ellis, M. Thomas, H. Beaugh, E. Gant	SIGNATURE:

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	SVOCs	VOCs	Methane	Diss. Gasses	Nitrate/Sulfate	Sulfide	Total Metals/Hg	Ferrous Fe	Total Cyanide	REMARKS	Number of Containers
							PRESERVATION (see codes)										
							I	H+I	H+I	BSK	I	ZnNa	N+I	I	NaOH		
1	MW-12DD-20180223-01	02.23.2018	1049	✔		GW	✔	✔	✔	✔	✔	✔	✔	✔	✔		13
2	MW-206D-20180223-01	02.23.2018	1200	✔		GW	✔	✔	✔	✔	✔	✔	✔	✔	✔		13
3	MW-08-20180223-01	02.23.2018	1015	✔		GW	✔	✔	✔	✔	✔	✔	✔	✔	✔		13
4	MW-205D-20180223-01	02.23.2018	1155	✔		GW	✔	✔	✔	✔	✔	✔	✔	✔	✔		13
5	TB-6-20180223-01	—	—	✔		W		✔									2
6	TB-7-20180223-01	—	-	✔		W		✔									2
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Mekewas I. Thomas	2-23-18 1618	1.	2/23/18 4:18pm
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:
24-hr holds

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client FedEx UPS US mail courier Greyhound
other:

PROJECT INFORMATION
PROJECT NAME: AGL-Macon
PROJECT #: 0366860
SITE ADDRESS: 137 Mulberry Street Macon GA
SEND REPORT TO: Adria.Reimer@erm.com
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers: 56

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

STATE PROGRAM (if any): GA
E-mail? ☑ Fax? ☐
DATA PACKAGE: I ☐ II ☐ III ☐ IV ☐

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TA
Samples are disposed of 30 days after completion of report unless other arrangements are made.

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

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

Client: ERM-Southeast
Project: AGL-Macon
Lab ID: 1802M41

Case Narrative

Ferrous Iron by SM3500Fe-B:

Method 3500Fe-B as listed in Standard Methods for the Examination of Water and Wastewater 22nd Edition is applicable for analyzing Ferrous Iron in the field. Samples were analyzed in the laboratory which is a deviation from the method.

Analytical Environmental Services, Inc **Date:** 16-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-12DD-20180223-01
Project Name:	AGL-Macon	**Collection Date:**	2/23/2018 10:49:00 AM
Lab ID:	1802M41-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	48	5.0		ug/L	256698	1	03/02/2018 08:10	NP
Carbon disulfide	BRL	5.0		ug/L	256698	1	03/02/2018 08:10	NP
Ethylbenzene	BRL	5.0		ug/L	256698	1	03/02/2018 08:10	NP
Toluene	BRL	5.0		ug/L	256698	1	03/02/2018 08:10	NP
Xylenes, Total	BRL	5.0		ug/L	256698	1	03/02/2018 08:10	NP
Surr: 4-Bromofluorobenzene	87.4	68-127		%REC	256698	1	03/02/2018 08:10	NP
Surr: Dibromofluoromethane	101	84.4-122		%REC	256698	1	03/02/2018 08:10	NP
Surr: Toluene-d8	101	80.1-116		%REC	256698	1	03/02/2018 08:10	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256683	1	03/02/2018 10:45	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	1.5	0.50		ug/L	256410	1	02/27/2018 18:59	YH
Acenaphthylene	BRL	1.0		ug/L	256410	1	02/27/2018 18:59	YH
Acenaphthene	BRL	0.50		ug/L	256410	1	02/27/2018 18:59	YH
Fluorene	BRL	0.10		ug/L	256410	1	02/27/2018 18:59	YH
Phenanthrene	BRL	0.050		ug/L	256410	1	02/27/2018 18:59	YH
Anthracene	BRL	0.050		ug/L	256410	1	02/27/2018 18:59	YH
Fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 18:59	YH
Pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 18:59	YH
Benz(a)anthracene	BRL	0.050		ug/L	256410	1	02/27/2018 18:59	YH
Chrysene	BRL	0.050		ug/L	256410	1	02/27/2018 18:59	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 18:59	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256410	1	02/27/2018 18:59	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 18:59	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 18:59	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256410	1	02/27/2018 18:59	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256410	1	02/27/2018 18:59	YH
Surr: 4-Terphenyl-d14	33.5	59.9-128	S	%REC	256410	1	02/27/2018 18:59	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256628	1	03/01/2018 20:05	YH
2-Methylphenol	BRL	10		ug/L	256628	1	03/01/2018 20:05	YH
3,4-Methylphenol	BRL	10		ug/L	256628	1	03/01/2018 20:05	YH
Phenol	BRL	10		ug/L	256628	1	03/01/2018 20:05	YH
Surr: 2,4,6-Tribromophenol	72.8	51.4-138		%REC	256628	1	03/01/2018 20:05	YH
Surr: 2-Fluorobiphenyl	79.1	44.6-119		%REC	256628	1	03/01/2018 20:05	YH
Surr: 2-Fluorophenol	58.5	27.2-120		%REC	256628	1	03/01/2018 20:05	YH
Surr: 4-Terphenyl-d14	89.3	47.1-136		%REC	256628	1	03/01/2018 20:05	YH
Surr: Nitrobenzene-d5	80.4	40.7-119		%REC	256628	1	03/01/2018 20:05	YH

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:** 16-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-12DD-20180223-01
Project Name:	AGL-Macon	**Collection Date:**	2/23/2018 10:49:00 AM
Lab ID:	1802M41-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	54.4	18.1-120		%REC	256628	1	03/01/2018 20:05	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256775	1	03/04/2018 21:34	AJ
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363997	1	02/24/2018 14:12	MP
Sulfate	BRL	1.0		mg/L	R363997	1	02/24/2018 14:12	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	530	20		ug/L	256594	5	02/28/2018 17:48	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363982	1	02/24/2018 09:40	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	0.011	0.010		mg/L	256684	1	03/02/2018 11:00	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256429	1	02/27/2018 19:43	IO
Arsenic	BRL	0.0500		mg/L	256429	1	02/27/2018 19:43	IO
Barium	0.0957	0.0200		mg/L	256429	1	02/27/2018 19:43	IO
Beryllium	BRL	0.0100		mg/L	256429	1	02/27/2018 19:43	IO
Cadmium	BRL	0.0050		mg/L	256429	1	02/27/2018 19:43	IO
Chromium	BRL	0.0100		mg/L	256429	1	02/27/2018 19:43	IO
Copper	BRL	0.0100		mg/L	256429	1	02/27/2018 19:43	IO
Iron	0.167	0.100		mg/L	256429	1	02/27/2018 19:43	IO
Lead	BRL	0.0100		mg/L	256429	1	02/27/2018 19:43	IO
Nickel	BRL	0.0200		mg/L	256429	1	02/27/2018 19:43	IO
Zinc	BRL	0.0200		mg/L	256429	1	02/27/2018 19:43	IO

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:** 16-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-206D-20180223-01
Project Name:	AGL-Macon	**Collection Date:**	2/23/2018 12:00:00 PM
Lab ID:	1802M41-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	11	5.0		ug/L	256698	1	03/02/2018 08:34	NP
Carbon disulfide	BRL	5.0		ug/L	256698	1	03/02/2018 08:34	NP
Ethylbenzene	68	5.0		ug/L	256698	1	03/02/2018 08:34	NP
Toluene	BRL	5.0		ug/L	256698	1	03/02/2018 08:34	NP
Xylenes, Total	6.2	5.0		ug/L	256698	1	03/02/2018 08:34	NP
Surr: 4-Bromofluorobenzene	92.6	68-127		%REC	256698	1	03/02/2018 08:34	NP
Surr: Dibromofluoromethane	104	84.4-122		%REC	256698	1	03/02/2018 08:34	NP
Surr: Toluene-d8	101	80.1-116		%REC	256698	1	03/02/2018 08:34	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256683	1	03/02/2018 10:45	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	330	50		ug/L	256410	100	02/28/2018 19:18	YH
Acenaphthylene	1.2	1.0		ug/L	256410	1	02/27/2018 19:27	YH
Acenaphthene	12	10		ug/L	256410	100	02/28/2018 19:18	YH
Fluorene	4.5	0.10		ug/L	256410	1	02/27/2018 19:27	YH
Phenanthrene	2.4	0.050		ug/L	256410	1	02/27/2018 19:27	YH
Anthracene	0.46	0.050		ug/L	256410	1	02/27/2018 19:27	YH
Fluoranthene	0.50	0.10		ug/L	256410	1	02/27/2018 19:27	YH
Pyrene	4.3	0.050		ug/L	256410	1	02/27/2018 19:27	YH
Benz(a)anthracene	0.12	0.050		ug/L	256410	1	02/27/2018 19:27	YH
Chrysene	0.100	0.050		ug/L	256410	1	02/27/2018 19:27	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 19:27	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256410	1	02/27/2018 19:27	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 19:27	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 19:27	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256410	1	02/27/2018 19:27	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256410	1	02/27/2018 19:27	YH
Surr: 4-Terphenyl-d14	95.5	59.9-128		%REC	256410	1	02/27/2018 19:27	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256628	1	03/01/2018 20:31	YH
2-Methylphenol	BRL	10		ug/L	256628	1	03/01/2018 20:31	YH
3,4-Methylphenol	BRL	10		ug/L	256628	1	03/01/2018 20:31	YH
Phenol	BRL	10		ug/L	256628	1	03/01/2018 20:31	YH
Surr: 2,4,6-Tribromophenol	77.5	51.4-138		%REC	256628	1	03/01/2018 20:31	YH
Surr: 2-Fluorobiphenyl	88.9	44.6-119		%REC	256628	1	03/01/2018 20:31	YH
Surr: 2-Fluorophenol	69.6	27.2-120		%REC	256628	1	03/01/2018 20:31	YH
Surr: 4-Terphenyl-d14	98.1	47.1-136		%REC	256628	1	03/01/2018 20:31	YH
Surr: Nitrobenzene-d5	93.8	40.7-119		%REC	256628	1	03/01/2018 20:31	YH

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:** 16-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-206D-20180223-01
Project Name:	AGL-Macon	**Collection Date:**	2/23/2018 12:00:00 PM
Lab ID:	1802M41-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	61.4	18.1-120		%REC	256628	1	03/01/2018 20:31	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256775	1	03/04/2018 21:53	AJ
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R363997	1	02/24/2018 15:12	MP
Sulfate	120	10		mg/L	R363997	10	02/24/2018 15:26	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	230	8.0		ug/L	256594	2	02/28/2018 17:54	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363982	1	02/24/2018 09:40	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	BRL	0.010		mg/L	256684	1	03/02/2018 11:00	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256429	1	02/27/2018 19:47	IO
Arsenic	BRL	0.0500		mg/L	256429	1	02/27/2018 19:47	IO
Barium	0.358	0.0200		mg/L	256429	1	02/27/2018 19:47	IO
Beryllium	BRL	0.0100		mg/L	256429	1	02/27/2018 19:47	IO
Cadmium	BRL	0.0050		mg/L	256429	1	02/27/2018 19:47	IO
Chromium	BRL	0.0100		mg/L	256429	1	02/27/2018 19:47	IO
Copper	BRL	0.0100		mg/L	256429	1	02/27/2018 19:47	IO
Iron	7.55	0.100		mg/L	256429	1	02/27/2018 19:47	IO
Lead	BRL	0.0100		mg/L	256429	1	02/27/2018 19:47	IO
Nickel	0.0202	0.0200		mg/L	256429	1	02/27/2018 19:47	IO
Zinc	BRL	0.0200		mg/L	256429	1	02/27/2018 19:47	IO

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:** 16-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-08-20180223-01
Project Name:	AGL-Macon	**Collection Date:**	2/23/2018 10:15:00 AM
Lab ID:	1802M41-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256698	1	03/02/2018 08:58	NP
Carbon disulfide	BRL	5.0		ug/L	256698	1	03/02/2018 08:58	NP
Ethylbenzene	BRL	5.0		ug/L	256698	1	03/02/2018 08:58	NP
Toluene	BRL	5.0		ug/L	256698	1	03/02/2018 08:58	NP
Xylenes, Total	BRL	5.0		ug/L	256698	1	03/02/2018 08:58	NP
Surr: 4-Bromofluorobenzene	86.3	68-127		%REC	256698	1	03/02/2018 08:58	NP
Surr: Dibromofluoromethane	105	84.4-122		%REC	256698	1	03/02/2018 08:58	NP
Surr: Toluene-d8	101	80.1-116		%REC	256698	1	03/02/2018 08:58	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256683	1	03/02/2018 10:45	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256410	1	02/27/2018 19:53	YH
Acenaphthylene	BRL	1.0		ug/L	256410	1	02/27/2018 19:53	YH
Acenaphthene	BRL	0.50		ug/L	256410	1	02/27/2018 19:53	YH
Fluorene	BRL	0.10		ug/L	256410	1	02/27/2018 19:53	YH
Phenanthrene	BRL	0.050		ug/L	256410	1	02/27/2018 19:53	YH
Anthracene	BRL	0.050		ug/L	256410	1	02/27/2018 19:53	YH
Fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 19:53	YH
Pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 19:53	YH
Benz(a)anthracene	BRL	0.050		ug/L	256410	1	02/27/2018 19:53	YH
Chrysene	BRL	0.050		ug/L	256410	1	02/27/2018 19:53	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256410	1	02/27/2018 19:53	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256410	1	02/27/2018 19:53	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 19:53	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256410	1	02/27/2018 19:53	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256410	1	02/27/2018 19:53	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256410	1	02/27/2018 19:53	YH
Surr: 4-Terphenyl-d14	23.8	59.9-128	S	%REC	256410	1	02/27/2018 19:53	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256628	1	03/01/2018 20:57	YH
2-Methylphenol	BRL	10		ug/L	256628	1	03/01/2018 20:57	YH
3,4-Methylphenol	BRL	10		ug/L	256628	1	03/01/2018 20:57	YH
Phenol	BRL	10		ug/L	256628	1	03/01/2018 20:57	YH
Surr: 2,4,6-Tribromophenol	69.8	51.4-138		%REC	256628	1	03/01/2018 20:57	YH
Surr: 2-Fluorobiphenyl	81.8	44.6-119		%REC	256628	1	03/01/2018 20:57	YH
Surr: 2-Fluorophenol	63	27.2-120		%REC	256628	1	03/01/2018 20:57	YH
Surr: 4-Terphenyl-d14	87.8	47.1-136		%REC	256628	1	03/01/2018 20:57	YH
Surr: Nitrobenzene-d5	86.9	40.7-119		%REC	256628	1	03/01/2018 20:57	YH

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:** 16-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-08-20180223-01
Project Name:	AGL-Macon	**Collection Date:**	2/23/2018 10:15:00 AM
Lab ID:	1802M41-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	55.1	18.1-120		%REC	256628	1	03/01/2018 20:57	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256775	1	03/04/2018 22:01	AJ
ION SCAN SW9056A								
Nitrate	1.1	0.25		mg/L	R364010	1	02/24/2018 16:40	MP
Sulfate	49	1.0		mg/L	R364010	1	02/24/2018 16:40	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	BRL	4.0		ug/L	256594	1	02/28/2018 16:13	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363982	1	02/24/2018 09:40	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	BRL	0.010		mg/L	256684	1	03/02/2018 11:00	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256429	1	02/27/2018 19:57	IO
Arsenic	BRL	0.0500		mg/L	256429	1	02/27/2018 19:57	IO
Barium	0.0485	0.0200		mg/L	256429	1	02/27/2018 19:57	IO
Beryllium	BRL	0.0100		mg/L	256429	1	02/27/2018 19:57	IO
Cadmium	BRL	0.0050		mg/L	256429	1	02/27/2018 19:57	IO
Chromium	BRL	0.0100		mg/L	256429	1	02/27/2018 19:57	IO
Copper	BRL	0.0100		mg/L	256429	1	02/27/2018 19:57	IO
Iron	0.308	0.100		mg/L	256429	1	02/27/2018 19:57	IO
Lead	BRL	0.0100		mg/L	256429	1	02/27/2018 19:57	IO
Nickel	BRL	0.0200		mg/L	256429	1	02/27/2018 19:57	IO
Zinc	BRL	0.0200		mg/L	256429	1	02/27/2018 19:57	IO

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:** 16-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-205DD-20180223-01
Project Name:	AGL-Macon	**Collection Date:**	2/23/2018 11:55:00 AM
Lab ID:	1802M41-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256698	1	03/02/2018 09:23	NP
Carbon disulfide	BRL	5.0		ug/L	256698	1	03/02/2018 09:23	NP
Ethylbenzene	BRL	5.0		ug/L	256698	1	03/02/2018 09:23	NP
Toluene	BRL	5.0		ug/L	256698	1	03/02/2018 09:23	NP
Xylenes, Total	BRL	5.0		ug/L	256698	1	03/02/2018 09:23	NP
Surr: 4-Bromofluorobenzene	87.9	68-127		%REC	256698	1	03/02/2018 09:23	NP
Surr: Dibromofluoromethane	104	84.4-122		%REC	256698	1	03/02/2018 09:23	NP
Surr: Toluene-d8	102	80.1-116		%REC	256698	1	03/02/2018 09:23	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256683	1	03/02/2018 10:45	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	0.77	0.50		ug/L	256410	1	02/28/2018 19:44	YH
Acenaphthylene	BRL	1.0		ug/L	256410	1	02/28/2018 19:44	YH
Acenaphthene	4.2	0.50		ug/L	256410	1	02/28/2018 19:44	YH
Fluorene	0.86	0.10		ug/L	256410	1	02/28/2018 19:44	YH
Phenanthrene	0.089	0.050		ug/L	256410	1	02/28/2018 19:44	YH
Anthracene	0.088	0.050		ug/L	256410	1	02/28/2018 19:44	YH
Fluoranthene	BRL	0.10		ug/L	256410	1	02/28/2018 19:44	YH
Pyrene	BRL	0.050		ug/L	256410	1	02/28/2018 19:44	YH
Benz(a)anthracene	BRL	0.050		ug/L	256410	1	02/28/2018 19:44	YH
Chrysene	BRL	0.050		ug/L	256410	1	02/28/2018 19:44	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256410	1	02/28/2018 19:44	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256410	1	02/28/2018 19:44	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256410	1	02/28/2018 19:44	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256410	1	02/28/2018 19:44	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256410	1	02/28/2018 19:44	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256410	1	02/28/2018 19:44	YH
Surr: 4-Terphenyl-d14	89.4	59.9-128		%REC	256410	1	02/28/2018 19:44	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256628	1	03/01/2018 21:24	YH
2-Methylphenol	BRL	10		ug/L	256628	1	03/01/2018 21:24	YH
3,4-Methylphenol	BRL	10		ug/L	256628	1	03/01/2018 21:24	YH
Phenol	BRL	10		ug/L	256628	1	03/01/2018 21:24	YH
Surr: 2,4,6-Tribromophenol	68.5	51.4-138		%REC	256628	1	03/01/2018 21:24	YH
Surr: 2-Fluorobiphenyl	74.9	44.6-119		%REC	256628	1	03/01/2018 21:24	YH
Surr: 2-Fluorophenol	53	27.2-120		%REC	256628	1	03/01/2018 21:24	YH
Surr: 4-Terphenyl-d14	88.8	47.1-136		%REC	256628	1	03/01/2018 21:24	YH
Surr: Nitrobenzene-d5	74	40.7-119		%REC	256628	1	03/01/2018 21:24	YH

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:** 16-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-205DD-20180223-01
Project Name:	AGL-Macon	**Collection Date:**	2/23/2018 11:55:00 AM
Lab ID:	1802M41-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	47.3	18.1-120		%REC	256628	1	03/01/2018 21:24	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256775	1	03/04/2018 22:05	AJ
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R364010	1	02/24/2018 17:40	MP
Sulfate	34	1.0		mg/L	R364010	1	02/24/2018 17:40	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	100	4.0		ug/L	256594	1	02/28/2018 16:05	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R363982	1	02/24/2018 09:40	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	BRL	0.010		mg/L	256684	1	03/02/2018 11:00	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256429	1	02/27/2018 20:01	IO
Arsenic	BRL	0.0500		mg/L	256429	1	02/27/2018 20:01	IO
Barium	0.107	0.0200		mg/L	256429	1	02/27/2018 20:01	IO
Beryllium	BRL	0.0100		mg/L	256429	1	02/27/2018 20:01	IO
Cadmium	BRL	0.0050		mg/L	256429	1	02/27/2018 20:01	IO
Chromium	BRL	0.0100		mg/L	256429	1	02/27/2018 20:01	IO
Copper	BRL	0.0100		mg/L	256429	1	02/27/2018 20:01	IO
Iron	0.140	0.100		mg/L	256429	1	02/27/2018 20:01	IO
Lead	BRL	0.0100		mg/L	256429	1	02/27/2018 20:01	IO
Nickel	BRL	0.0200		mg/L	256429	1	02/27/2018 20:01	IO
Zinc	BRL	0.0200		mg/L	256429	1	02/27/2018 20:01	IO

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:** 16-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-6-20180223-01
Project Name:	AGL-Macon	**Collection Date:**	2/23/2018
Lab ID:	1802M41-005	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256698	1	03/02/2018 04:09	NP
Carbon disulfide	BRL	5.0		ug/L	256698	1	03/02/2018 04:09	NP
Ethylbenzene	BRL	5.0		ug/L	256698	1	03/02/2018 04:09	NP
Toluene	BRL	5.0		ug/L	256698	1	03/02/2018 04:09	NP
Xylenes, Total	BRL	5.0		ug/L	256698	1	03/02/2018 04:09	NP
Surr: 4-Bromofluorobenzene	86.1	68-127		%REC	256698	1	03/02/2018 04:09	NP
Surr: Dibromofluoromethane	108	84.4-122		%REC	256698	1	03/02/2018 04:09	NP
Surr: Toluene-d8	103	80.1-116		%REC	256698	1	03/02/2018 04:09	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:** 16-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-7-20180223-01
Project Name:	AGL-Macon	**Collection Date:**	2/23/2018 12:01:00 AM
Lab ID:	1802M41-006	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256698	1	03/02/2018 04:33	NP
Carbon disulfide	BRL	5.0		ug/L	256698	1	03/02/2018 04:33	NP
Ethylbenzene	BRL	5.0		ug/L	256698	1	03/02/2018 04:33	NP
Toluene	BRL	5.0		ug/L	256698	1	03/02/2018 04:33	NP
Xylenes, Total	BRL	5.0		ug/L	256698	1	03/02/2018 04:33	NP
Surr: 4-Bromofluorobenzene	85.6	68-127		%REC	256698	1	03/02/2018 04:33	NP
Surr: Dibromofluoromethane	105	84.4-122		%REC	256698	1	03/02/2018 04:33	NP
Surr: Toluene-d8	102	80.1-116		%REC	256698	1	03/02/2018 04:33	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

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

March 8, 2018

Mirzeta Kararic
Analytical Environmental Services, Inc.
3785 Presidential Parkway
Suite 111
Atlanta, GA 30340

RE: **1802M41**

Pace Workorder: 25820

Dear Mirzeta Kararic:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, February 28, 2018. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Ruth Welsh 03/08/2018
Ruth.Welsh@pacelabs.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email PAESfeedback@pacelabs.com.

Total Number of Pages 13

CERTIFICATE OF ANALYSIS

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water
Accreditor:	West Virginia Department of Environmental Protection, Division of Water and Waste Management
Accreditation ID:	395
Scope:	Non-Potable Water
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	State of Virginia
Accreditation ID:	460201
Scope:	Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

Pace Analytical Energy Services LLC
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Pittsburgh, PA 15238
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SAMPLE SUMMARY

Workorder: 25820 1802M41

Lab ID	Sample ID	Matrix	Date Collected	Date Received
258200001	MW-12DD-20180223-01	Water	2/23/2018 10:49	2/28/2018 12:00
258200002	MW-206D-20180223-01	Water	2/23/2018 12:00	2/28/2018 12:00
258200003	MW-08-20180223-01	Water	2/23/2018 10:15	2/28/2018 12:00
258200004	MW-205DD-20180223-01	Water	2/23/2018 11:55	2/28/2018 12:00

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ANALYTICAL RESULTS

Workorder: 25820 1802M41

Lab ID: **258200001** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **MW-12DD-20180223-01** Date Collected: 2/23/2018 10:49

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**<5.0**	mg/l	5.0	0.32	1	3/5/2018 13:39	TD	n
Oxygen	**4.0**	mg/l	0.50	0.12	1	3/5/2018 13:39	TD	n
Nitrogen	**19**	mg/l	2.0	0.34	1	3/5/2018 13:39	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 13:39	TD	n

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ANALYTICAL RESULTS

Workorder: 25820 1802M41

Lab ID: **258200002** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **MW-206D-20180223-01** Date Collected: 2/23/2018 12:00

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**110**	mg/l	5.0	0.32	1	3/5/2018 13:51	TD	n
Oxygen	**6.0**	mg/l	0.50	0.12	1	3/5/2018 13:51	TD	n
Nitrogen	**16**	mg/l	2.0	0.34	1	3/5/2018 13:51	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 13:51	TD	n

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ANALYTICAL RESULTS

Workorder: 25820 1802M41

Lab ID: **258200003** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **MW-08-20180223-01** Date Collected: 2/23/2018 10:15

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**68**	mg/l	5.0	0.32	1	3/5/2018 14:03	TD	n
Oxygen	**5.7**	mg/l	0.50	0.12	1	3/5/2018 14:03	TD	n
Nitrogen	**15**	mg/l	2.0	0.34	1	3/5/2018 14:03	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 14:03	TD	n

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ANALYTICAL RESULTS

Workorder: 25820 1802M41

Lab ID: **258200004** Date Received: 2/28/2018 12:00 Matrix: Water

Sample ID: **MW-205DD-20180223-01** Date Collected: 2/23/2018 11:55

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**<5.0**	mg/l	5.0	0.32	1	3/5/2018 14:15	TD	n
Oxygen	**3.8**	mg/l	0.50	0.12	1	3/5/2018 14:15	TD	n
Nitrogen	**18**	mg/l	2.0	0.34	1	3/5/2018 14:15	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/5/2018 14:15	TD	n

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Phone: (412) 826-5245
Fax: (412) 826-3433

ANALYTICAL RESULTS QUALIFIERS

Workorder: 25820 1802M41

DEFINITIONS/QUALIFIERS

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA

Workorder: 25820 1802M41

QC Batch: DISG/6695 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 258200001, 258200002, 258200003, 258200004

METHOD BLANK: 54025

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Carbon Dioxide	mg/l	<5.0	5.0	n
Oxygen	mg/l	<0.50	0.50	n
Nitrogen	mg/l	<2.0	2.0	n
Carbon Monoxide	mg/l	<1.0	1.0	n

LABORATORY CONTROL SAMPLE & LCSD: 54026 54027

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Carbon Dioxide	mg/l	120	130	130	112	111	80-120	0.97	20	n
Oxygen	mg/l	11	10	9.9	88	87	80-120	1.3	20	n
Nitrogen	mg/l	140	120	120	89	89	80-120	0.98	20	n
Carbon Monoxide	mg/l	2	2.3	2.1	116	105	80-120	9.5	20	n

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 25820 1802M41

QUALITY CONTROL PARAMETER QUALIFIERS

n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

Pace Analytical Energy Services LLC
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Phone: (412) 826-5245
Fax: (412) 826-3433

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 25820 1802M41

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
258200001	MW-12DD-20180223-01			AM20GAX	DISG/6695
258200002	MW-206D-20180223-01			AM20GAX	DISG/6695
258200003	MW-08-20180223-01			AM20GAX	DISG/6695
258200004	MW-205DD-20180223-01			AM20GAX	DISG/6695

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

25820

CHAIN OF CUSTODY

Work Order: _____

Date: _____ Page _____ of _____

COMPANY:	ADDRESS:
PHONE:	EMAIL:
SAMPLED BY:	SIGNATURE:

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	ANALYSIS REQUESTED: O2, N2, CO2	PRESERVATION (see codes)	REMARKS	Number of Containers
1	MW-12DD-20180223-01	2/23/18	10:49	✓		GW	X			
2	MW-206D-20180223-01	2/23/18	12:00	✓		GW	X			
3	MW-08-20180223-01	2/23/18	10:15	✓		GW	X			
4	MW-205DD-20180223-01	2/23/18	11:55	✓		GW	X			
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Andrew Stephens	2/26/18 5:00pm	1. [illegible]	2.23.18 1200
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client FedEx UPS US mail courier Greyhound
other: _____

PROJECT INFORMATION
PROJECT NAME: 1802M41
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: MKARABIC@AESATLANTA.COM
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

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

STATE PROGRAM (if any): _____
E-mail? ☐ Fax? ☐
DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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

Cooler Receipt Form

Client Name: AES Project: 1802M41 Lab Work Order: 25820

A. Shipping/Container Information (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other _____ Air bill Present: Yes No

Tracking Number: 724931686583

Custody Seal on Cooler/Box Present: Yes (No) Seals Intact: Yes No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam Other: _____

Type of Ice: (Wet) Blue None Ice Intact: (Yes) Melted

Cooler Temperature: 1.4°C Radiation Screened: Yes (No) Chain of Custody Present: (Yes) No

Comments: _____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC			✓	
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected	✓			
Sufficient volume provided	✓			
PAES containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	
Headspace present?	✓			

Comments: _____

Cooler contents examined/received by: LY Date: 2.28.18

Project Manager Review: _____ Date: 2/28/18

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **ERM-Southeast** AES Work Order Number: **1802M41**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☐ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	◉	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	◉	○		
5.	Custody seals intact on shipping container?	○	○	◉		
6.	Temperature blanks present?	◉	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	◉	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	◉	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	◉	○	○		
10.	Sampler name and/or signature on COC?	◉	○	○		
11.	Were all samples received within holding time?	◉	○	○		
12.	TAT marked on the COC?	◉	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 2.5 °C Cooler 2 Temperature 2.1 °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). AJJ 2/23/18

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	◉	○	○		
17.	Custody seals present on sample containers?	○	◉	○		
18.	Custody seals intact on sample containers?	○	○	◉		
19.	Do sample container labels match the COC?	◉	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	◉	○	○		
21.	Were all of the samples listed on the COC received?	◉	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	◉	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	◉	○	○		
24.	Were samples received in appropriate containers?	◉	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	◉	○	○		
26.	Were trip blanks submitted?	◉	○	○	listed on COC ■ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). AJJ 2/23/18

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	◉	○	○		
29.	Containers meet preservation guidelines?	◉	○	○		
30.	Was pH adjusted at Sample Receipt?	○	○	◉		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). AJJ 2/23/18

Checklist 6.9.17 Rev 2

Locked

Analytical Environmental Services, Inc

Date: 16-Mar-18

Client: ERM-Southeast
Project Name: AGL-Macon
Lab Order: 1802M41

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802M41-001A	MW-12DD-20180223-01	2/23/2018 10:49:00AM	Groundwater	Volatile Organic Compounds by GC/MS		3/1/2018 2:09:00PM	03/02/2018
1802M41-001B	MW-12DD-20180223-01	2/23/2018 10:49:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00AM	02/27/2018
1802M41-001B	MW-12DD-20180223-01	2/23/2018 10:49:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		3/1/2018 8:00:00AM	03/01/2018
1802M41-001C	MW-12DD-20180223-01	2/23/2018 10:49:00AM	Groundwater	GC Analysis of Gaseous Samples		2/28/2018 12:39:19PM	02/28/2018
1802M41-001E	MW-12DD-20180223-01	2/23/2018 10:49:00AM	Groundwater	ION SCAN			02/24/2018
1802M41-001F	MW-12DD-20180223-01	2/23/2018 10:49:00AM	Groundwater	Sulfide by SW9030/9034		3/2/2018 9:40:00AM	03/02/2018
1802M41-001G	MW-12DD-20180223-01	2/23/2018 10:49:00AM	Groundwater	TOTAL METALS BY ICP		2/27/2018 10:52:00AM	02/27/2018
1802M41-001G	MW-12DD-20180223-01	2/23/2018 10:49:00AM	Groundwater	TOTAL MERCURY		3/4/2018 2:13:00PM	03/04/2018
1802M41-001H	MW-12DD-20180223-01	2/23/2018 10:49:00AM	Groundwater	Ferrous Iron			02/24/2018
1802M41-001I	MW-12DD-20180223-01	2/23/2018 10:49:00AM	Groundwater	Cyanide		3/2/2018 9:05:00AM	03/02/2018
1802M41-002A	MW-206D-20180223-01	2/23/2018 12:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/1/2018 2:09:00PM	03/02/2018
1802M41-002B	MW-206D-20180223-01	2/23/2018 12:00:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00AM	02/27/2018
1802M41-002B	MW-206D-20180223-01	2/23/2018 12:00:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00AM	02/28/2018
1802M41-002B	MW-206D-20180223-01	2/23/2018 12:00:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		3/1/2018 8:00:00AM	03/01/2018
1802M41-002C	MW-206D-20180223-01	2/23/2018 12:00:00PM	Groundwater	GC Analysis of Gaseous Samples		2/28/2018 12:39:19PM	02/28/2018
1802M41-002E	MW-206D-20180223-01	2/23/2018 12:00:00PM	Groundwater	ION SCAN			02/24/2018
1802M41-002F	MW-206D-20180223-01	2/23/2018 12:00:00PM	Groundwater	Sulfide by SW9030/9034		3/2/2018 9:40:00AM	03/02/2018
1802M41-002G	MW-206D-20180223-01	2/23/2018 12:00:00PM	Groundwater	TOTAL METALS BY ICP		2/27/2018 10:52:00AM	02/27/2018
1802M41-002G	MW-206D-20180223-01	2/23/2018 12:00:00PM	Groundwater	TOTAL MERCURY		3/4/2018 2:13:00PM	03/04/2018
1802M41-002H	MW-206D-20180223-01	2/23/2018 12:00:00PM	Groundwater	Ferrous Iron			02/24/2018
1802M41-002I	MW-206D-20180223-01	2/23/2018 12:00:00PM	Groundwater	Cyanide		3/2/2018 9:05:00AM	03/02/2018
1802M41-003A	MW-08-20180223-01	2/23/2018 10:15:00AM	Groundwater	Volatile Organic Compounds by GC/MS		3/1/2018 2:09:00PM	03/02/2018
1802M41-003B	MW-08-20180223-01	2/23/2018 10:15:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00AM	02/27/2018
1802M41-003B	MW-08-20180223-01	2/23/2018 10:15:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		3/1/2018 8:00:00AM	03/01/2018
1802M41-003C	MW-08-20180223-01	2/23/2018 10:15:00AM	Groundwater	GC Analysis of Gaseous Samples		2/28/2018 12:39:19PM	02/28/2018
1802M41-003E	MW-08-20180223-01	2/23/2018 10:15:00AM	Groundwater	ION SCAN			02/24/2018
1802M41-003F	MW-08-20180223-01	2/23/2018 10:15:00AM	Groundwater	Sulfide by SW9030/9034		3/2/2018 9:40:00AM	03/02/2018
1802M41-003G	MW-08-20180223-01	2/23/2018 10:15:00AM	Groundwater	TOTAL METALS BY ICP		2/27/2018 10:52:00AM	02/27/2018
1802M41-003G	MW-08-20180223-01	2/23/2018 10:15:00AM	Groundwater	TOTAL MERCURY		3/4/2018 2:13:00PM	03/04/2018

Client: ERM-Southeast
Project Name: AGL-Macon
Lab Order: 1802M41

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802M41-003H	MW-08-20180223-01	2/23/2018 10:15:00AM	Groundwater	Ferrous Iron			02/24/2018
1802M41-003I	MW-08-20180223-01	2/23/2018 10:15:00AM	Groundwater	Cyanide		3/2/2018 9:05:00AM	03/02/2018
1802M41-004A	MW-205DD-20180223-01	2/23/2018 11:55:00AM	Groundwater	Volatile Organic Compounds by GC/MS		3/1/2018 2:09:00PM	03/02/2018
1802M41-004B	MW-205DD-20180223-01	2/23/2018 11:55:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		2/26/2018 11:00:00AM	02/28/2018
1802M41-004B	MW-205DD-20180223-01	2/23/2018 11:55:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		3/1/2018 8:00:00AM	03/01/2018
1802M41-004C	MW-205DD-20180223-01	2/23/2018 11:55:00AM	Groundwater	GC Analysis of Gaseous Samples		2/28/2018 12:39:19PM	02/28/2018
1802M41-004E	MW-205DD-20180223-01	2/23/2018 11:55:00AM	Groundwater	ION SCAN			02/24/2018
1802M41-004F	MW-205DD-20180223-01	2/23/2018 11:55:00AM	Groundwater	Sulfide by SW9030/9034		3/2/2018 9:40:00AM	03/02/2018
1802M41-004G	MW-205DD-20180223-01	2/23/2018 11:55:00AM	Groundwater	TOTAL METALS BY ICP		2/27/2018 10:52:00AM	02/27/2018
1802M41-004G	MW-205DD-20180223-01	2/23/2018 11:55:00AM	Groundwater	TOTAL MERCURY		3/4/2018 2:13:00PM	03/04/2018
1802M41-004H	MW-205DD-20180223-01	2/23/2018 11:55:00AM	Groundwater	Ferrous Iron			02/24/2018
1802M41-004I	MW-205DD-20180223-01	2/23/2018 11:55:00AM	Groundwater	Cyanide		3/2/2018 9:05:00AM	03/02/2018
1802M41-005A	TB-6-20180223-01	2/23/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		3/1/2018 2:09:00PM	03/02/2018
1802M41-006A	TB-7-20180223-01	2/23/2018 12:01:00AM	Aqueous	Volatile Organic Compounds by GC/MS		3/1/2018 2:09:00PM	03/02/2018

Client: ERM-Southeast
Project Name: AGL-Macon
Workorder: 1802M41

ANALYTICAL QC SUMMARY REPORT

BatchID: 256410

Sample ID: **MB-256410** Client ID: Units: **ug/L** Prep Date: **02/26/2018** Run No: **364040**
SampleType: **MBLK** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256410** Analysis Date: **02/27/2018** Seq No: **8045666**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	BRL	0.50									
Acenaphthylene	BRL	1.0									
Anthracene	BRL	0.050									
Benz(a)anthracene	BRL	0.050									
Benzo(a)pyrene	BRL	0.050									
Benzo(b)fluoranthene	BRL	0.10									
Benzo(g,h,i)perylene	BRL	0.10									
Benzo(k)fluoranthene	BRL	0.050									
Chrysene	BRL	0.050									
Dibenz(a,h)anthracene	BRL	0.10									
Fluoranthene	BRL	0.10									
Fluorene	BRL	0.10									
Indeno(1,2,3-cd)pyrene	BRL	0.050									
Naphthalene	BRL	0.50									
Phenanthrene	BRL	0.050									
Pyrene	BRL	0.050									
Surr: 4-Terphenyl-d14	1.540	0	2.000		77.0	59.9	128				

Sample ID: **LCS-256410** Client ID: Units: **ug/L** Prep Date: **02/26/2018** Run No: **364040**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256410** Analysis Date: **02/27/2018** Seq No: **8045667**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.768	0.50	2.000		88.4	64.7	120				
Acenaphthylene	1.825	1.0	2.000		91.2	63.2	120				
Anthracene	1.962	0.050	2.000		98.1	69.3	125				
Benz(a)anthracene	2.099	0.050	2.000		105	71.1	141				
Benzo(a)pyrene	2.012	0.050	2.000		101	67.2	131				

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: ERM-Southeast
Project Name: AGL-Macon
Workorder: 1802M41

ANALYTICAL QC SUMMARY REPORT

BatchID: 256410

Sample ID: **LCS-256410** Client ID:
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D**
Units: **ug/L** Prep Date: **02/26/2018** Run No: **364040**
BatchID: **256410** Analysis Date: **02/27/2018** Seq No: **8045667**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(b)fluoranthene	2.025	0.10	2.000		101	66.1	134				
Benzo(g,h,i)perylene	1.893	0.10	2.000		94.7	66.1	128				
Benzo(k)fluoranthene	1.674	0.050	2.000		83.7	67.7	133				
Chrysene	1.939	0.050	2.000		97.0	71.3	137				
Dibenz(a,h)anthracene	1.862	0.10	2.000		93.1	59.7	125				
Fluoranthene	1.928	0.10	2.000		96.4	72.3	129				
Fluorene	1.976	0.10	2.000		98.8	69.2	120				
Indeno(1,2,3-cd)pyrene	1.972	0.050	2.000		98.6	66.4	127				
Naphthalene	1.655	0.50	2.000		82.7	56.8	120				
Phenanthrene	1.815	0.050	2.000		90.7	70.9	120				
Pyrene	2.001	0.050	2.000		100	68.4	138				
Surr: 4-Terphenyl-d14	2.318	0	2.000		116	59.9	128				

Sample ID: **1802K33-001BMS** Client ID:
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D**
Units: **ug/L** Prep Date: **02/26/2018** Run No: **364040**
BatchID: **256410** Analysis Date: **02/27/2018** Seq No: **8045669**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.715	0.50	2.000	1.325	19.5	61.4	120				S
Acenaphthylene	BRL	1.0	2.000	0.2342	23.6	63.9	120				S
Anthracene	0.6195	0.050	2.000	0.1266	24.6	65.3	120				S
Benz(a)anthracene	0.6018	0.050	2.000		30.1	76.7	124				S
Benzo(a)pyrene	0.5077	0.050	2.000		25.4	58.5	120				S
Benzo(b)fluoranthene	0.5167	0.10	2.000		25.8	52.6	121				S
Benzo(g,h,i)perylene	0.4576	0.10	2.000		22.9	44.2	120				S
Benzo(k)fluoranthene	0.3880	0.050	2.000		19.4	59	120				S
Chrysene	0.4964	0.050	2.000		24.8	65	122				S
Dibenz(a,h)anthracene	0.4416	0.10	2.000		22.1	38.2	120				S
Fluoranthene	0.5587	0.10	2.000		27.9	71.7	118				S

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: ERM-Southeast
Project Name: AGL-Macon
Workorder: 1802M41

ANALYTICAL QC SUMMARY REPORT

BatchID: 256410

Sample ID: **1802K33-001BMS** Client ID:
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**
Units: **ug/L** Prep Date: **02/26/2018** Run No: **364040**
BatchID: **256410** Analysis Date: **02/27/2018** Seq No: **8045669**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Fluorene	0.7478	0.10	2.000	0.2399	25.4	65.6	120				S
Indeno(1,2,3-cd)pyrene	0.4621	0.050	2.000		23.1	46.6	120				S
Naphthalene	0.7957	0.50	2.000	0.06525	36.5	57.3	120				S
Phenanthrene	0.5065	0.050	2.000		25.3	65.6	120				S
Pyrene	0.7673	0.050	2.000	0.2614	25.3	69	121				S
Surr: 4-Terphenyl-d14	0.6217	0	2.000		31.1	59.9	128				S

Sample ID: **1802K33-001BMSD** Client ID:
SampleType: **MSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**
Units: **ug/L** Prep Date: **02/26/2018** Run No: **364040**
BatchID: **256410** Analysis Date: **02/27/2018** Seq No: **8045670**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	2.423	0.50	2.000	1.325	54.9	61.4	120	1.715	34.2	24.4	SR
Acenaphthylene	1.015	1.0	2.000	0.2342	39.0	63.9	120	0.7056	36.0	27.9	SR
Anthracene	0.9040	0.050	2.000	0.1266	38.9	65.3	120	0.6195	37.4	26.3	SR
Benz(a)anthracene	0.8962	0.050	2.000		44.8	76.7	124	0.6018	39.3	25	SR
Benzo(a)pyrene	0.7523	0.050	2.000		37.6	58.5	120	0.5077	38.8	23.5	SR
Benzo(b)fluoranthene	0.7664	0.10	2.000		38.3	52.6	121	0.5167	38.9	24	SR
Benzo(g,h,i)perylene	0.6599	0.10	2.000		33.0	44.2	120	0.4576	36.2	32.1	SR
Benzo(k)fluoranthene	0.5740	0.050	2.000		28.7	59	120	0.3880	38.7	19.6	SR
Chrysene	0.7364	0.050	2.000		36.8	65	122	0.4964	38.9	23	SR
Dibenz(a,h)anthracene	0.6713	0.10	2.000		33.6	38.2	120	0.4416	41.3	31.7	SR
Fluoranthene	0.8215	0.10	2.000		41.1	71.7	118	0.5587	38.1	23	SR
Fluorene	1.050	0.10	2.000	0.2399	40.5	65.6	120	0.7478	33.6	25	SR
Indeno(1,2,3-cd)pyrene	0.6581	0.050	2.000		32.9	46.6	120	0.4621	35.0	32.4	SR
Naphthalene	0.7515	0.50	2.000	0.06525	34.3	57.3	120	0.7957	5.72	27.2	S
Phenanthrene	0.7322	0.050	2.000		36.6	65.6	120	0.5065	36.4	23.5	SR
Pyrene	1.106	0.050	2.000	0.2614	42.2	69	121	0.7673	36.1	23.8	SR
Surr: 4-Terphenyl-d14	0.8916	0	2.000		44.6	59.9	128	0.6217	0	0	S

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-Mar-18

Client: ERM-Southeast
Project Name: AGL-Macon
Workorder: 1802M41

ANALYTICAL QC SUMMARY REPORT

BatchID: 256429

Sample ID: **MB-256429** Client ID: Units: **mg/L** Prep Date: **02/26/2018** Run No: **364106**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010D** BatchID: **256429** Analysis Date: **02/27/2018** Seq No: **8047298**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	0.0200									
Arsenic	BRL	0.0500									
Barium	BRL	0.0200									
Beryllium	BRL	0.0100									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Copper	BRL	0.0100									
Iron	BRL	0.100									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Zinc	BRL	0.0200									

Sample ID: **LCS-256429** Client ID: Units: **mg/L** Prep Date: **02/26/2018** Run No: **364106**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010D** BatchID: **256429** Analysis Date: **02/27/2018** Seq No: **8047299**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9507	0.0200	1.000		95.1	80	120				
Arsenic	0.9306	0.0500	1.000		93.1	80	120				
Barium	0.9251	0.0200	1.000		92.5	80	120				
Beryllium	0.9190	0.0100	1.000		91.9	80	120				
Cadmium	0.9251	0.0050	1.000		92.5	80	120				
Chromium	0.9104	0.0100	1.000		91.0	80	120				
Copper	0.9029	0.0100	1.000		90.3	80	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: ERM-Southeast
Project Name: AGL-Macon
Workorder: 1802M41

ANALYTICAL QC SUMMARY REPORT

BatchID: 256429

Sample ID: **LCS-256429** Client ID: Units: **mg/L** Prep Date: **02/26/2018** Run No: **364106**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010D** BatchID: **256429** Analysis Date: **02/27/2018** Seq No: **8047299**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	9.018	0.100	10.00		90.2	80	120				
Lead	0.9400	0.0100	1.000		94.0	80	120				
Nickel	0.9263	0.0200	1.000		92.6	80	120				
Zinc	0.9137	0.0200	1.000		91.4	80	120				

Sample ID: **1802M03-001AMS** Client ID: Units: **mg/L** Prep Date: **02/26/2018** Run No: **364106**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010D** BatchID: **256429** Analysis Date: **02/27/2018** Seq No: **8047303**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9706	0.0200	1.000		97.1	75	125				
Arsenic	0.9507	0.0500	1.000		95.1	75	125				
Barium	1.554	0.0200	1.000	0.5781	97.6	75	125				
Beryllium	0.9344	0.0100	1.000		93.4	75	125				
Cadmium	0.9491	0.0050	1.000		94.9	75	125				
Chromium	0.9291	0.0100	1.000		92.9	75	125				
Copper	0.9376	0.0100	1.000	0.004954	93.3	75	125				
Iron	9.182	0.100	10.00		91.8	75	125				
Lead	0.9564	0.0100	1.000		95.6	75	125				
Nickel	0.9532	0.0200	1.000	0.01018	94.3	75	125				
Zinc	4.384	0.0200	1.000	3.425	95.9	75	125				

Sample ID: **1802M03-001AMSD** Client ID: Units: **mg/L** Prep Date: **02/26/2018** Run No: **364106**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010D** BatchID: **256429** Analysis Date: **02/27/2018** Seq No: **8047306**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9296	0.0200	1.000		93.0	75	125	0.9706	4.31	20	
Arsenic	0.9209	0.0500	1.000		92.1	75	125	0.9507	3.19	20	
Barium	1.492	0.0200	1.000	0.5781	91.4	75	125	1.554	4.09	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: ERM-Southeast
Project Name: AGL-Macon
Workorder: 1802M41

ANALYTICAL QC SUMMARY REPORT

BatchID: 256429

Sample ID: **1802M03-001AMSD** Client ID:
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010D**
Units: **mg/L** Prep Date: **02/26/2018** Run No: **364106**
BatchID: **256429** Analysis Date: **02/27/2018** Seq No: **8047306**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Beryllium	0.9105	0.0100	1.000		91.1	75	125	0.9344	2.59	20	
Cadmium	0.9190	0.0050	1.000		91.9	75	125	0.9491	3.22	20	
Chromium	0.9021	0.0100	1.000		90.2	75	125	0.9291	2.95	20	
Copper	0.9033	0.0100	1.000	0.004954	89.8	75	125	0.9376	3.73	20	
Iron	8.913	0.100	10.00		89.1	75	125	9.182	2.97	20	
Lead	0.9252	0.0100	1.000		92.5	75	125	0.9564	3.32	20	
Nickel	0.9223	0.0200	1.000	0.01018	91.2	75	125	0.9532	3.29	20	
Zinc	4.217	0.0200	1.000	3.425	79.2	75	125	4.384	3.90	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: ERM-Southeast
Project Name: AGL-Macon
Workorder: 1802M41

ANALYTICAL QC SUMMARY REPORT

BatchID: 256594

Sample ID: **MB-256594**	Client ID:				Units: **ug/L**		Prep Date: **02/28/2018**		Run No: **364192**
SampleType: **MBLK**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256594**		Analysis Date: **02/28/2018**		Seq No: **8049257**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	BRL	4.0									

Sample ID: **LCS-256594**	Client ID:				Units: **ug/L**		Prep Date: **02/28/2018**		Run No: **364192**
SampleType: **LCS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256594**		Analysis Date: **02/28/2018**		Seq No: **8049258**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	124.8	4.0	200.0		62.4	45.1	115				

Sample ID: **LCSD-256594**	Client ID:				Units: **ug/L**		Prep Date: **02/28/2018**		Run No: **364192**
SampleType: **LCSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256594**		Analysis Date: **02/28/2018**		Seq No: **8049259**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	139.3	4.0	200.0		69.6	45.1	115	124.8	11.0	20	

Sample ID: **1802M15-006DMS**	Client ID: **OSW-3**				Units: **ug/L**		Prep Date: **02/28/2018**		Run No: **364192**
SampleType: **MS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256594**		Analysis Date: **02/28/2018**		Seq No: **8049277**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	109.2	4.0	200.0		54.6	42	115				

Sample ID: **1802M15-006DMSD**	Client ID: **OSW-3**				Units: **ug/L**		Prep Date: **02/28/2018**		Run No: **364192**
SampleType: **MSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256594**		Analysis Date: **02/28/2018**		Seq No: **8049278**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	110.5	4.0	200.0		55.3	42	115	109.2	1.21	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: ERM-Southeast
Project Name: AGL-Macon
Workorder: 1802M41

ANALYTICAL QC SUMMARY REPORT

BatchID: 256628

Sample ID: **MB-256628** Client ID: Units: **ug/L** Prep Date: **03/01/2018** Run No: **364267**
SampleType: **MBLK** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256628** Analysis Date: **03/01/2018** Seq No: **8052681**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,4-Dimethylphenol	BRL	10									
2-Methylphenol	BRL	10									
3,4-Methylphenol	BRL	10									
Phenol	BRL	10									
Surr: 2,4,6-Tribromophenol	67.92	0	100.0		67.9	51.4	138				
Surr: 2-Fluorobiphenyl	37.46	0	50.00		74.9	44.6	119				
Surr: 2-Fluorophenol	44.65	0	100.0		44.6	27.2	120				
Surr: 4-Terphenyl-d14	45.46	0	50.00		90.9	47.1	136				
Surr: Nitrobenzene-d5	41.76	0	50.00		83.5	40.7	119				
Surr: Phenol-d5	30.89	0	100.0		30.9	18.1	120				

Sample ID: **LCS-256628** Client ID: Units: **ug/L** Prep Date: **03/01/2018** Run No: **364267**
SampleType: **LCS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256628** Analysis Date: **03/01/2018** Seq No: **8052682**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	34.79	10	100.0		34.8	26.4	120				
Surr: 2,4,6-Tribromophenol	76.12	0	100.0		76.1	51.4	138				
Surr: 2-Fluorobiphenyl	43.74	0	50.00		87.5	44.6	119				
Surr: 2-Fluorophenol	49.15	0	100.0		49.2	27.2	120				
Surr: 4-Terphenyl-d14	48.20	0	50.00		96.4	47.1	136				
Surr: Nitrobenzene-d5	46.97	0	50.00		93.9	40.7	119				
Surr: Phenol-d5	34.14	0	100.0		34.1	18.1	120				

Sample ID: **1802Q31-001BMS** Client ID: Units: **ug/L** Prep Date: **03/01/2018** Run No: **364267**
SampleType: **MS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256628** Analysis Date: **03/01/2018** Seq No: **8052684**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	51.69	10	100.0		51.7	31.5	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: ERM-Southeast
Project Name: AGL-Macon
Workorder: 1802M41

ANALYTICAL QC SUMMARY REPORT

BatchID: 256628

Sample ID: **1802Q31-001BMS**	Client ID:		Units: **ug/L**	Prep Date: **03/01/2018**	Run No: **364267**
SampleType: **MS**	TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**		BatchID: **256628**	Analysis Date: **03/01/2018**	Seq No: **8052684**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 2,4,6-Tribromophenol	69.95	0	100.0		70.0	51.4	138				
Surr: 2-Fluorobiphenyl	39.79	0	50.00		79.6	44.6	119				
Surr: 2-Fluorophenol	60.63	0	100.0		60.6	27.2	120				
Surr: 4-Terphenyl-d14	45.50	0	50.00		91.0	47.1	136				
Surr: Nitrobenzene-d5	42.67	0	50.00		85.3	40.7	119				
Surr: Phenol-d5	52.99	0	100.0		53.0	18.1	120				

Sample ID: **1802Q31-001BMSD**	Client ID:		Units: **ug/L**	Prep Date: **03/01/2018**	Run No: **364267**
SampleType: **MSD**	TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D**		BatchID: **256628**	Analysis Date: **03/01/2018**	Seq No: **8052685**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	48.42	10	100.0		48.4	31.5	120	51.69	6.53	28.5	
Surr: 2,4,6-Tribromophenol	71.00	0	100.0		71.0	51.4	138	69.95	0	0	
Surr: 2-Fluorobiphenyl	39.58	0	50.00		79.2	44.6	119	39.79	0	0	
Surr: 2-Fluorophenol	59.31	0	100.0		59.3	27.2	120	60.63	0	0	
Surr: 4-Terphenyl-d14	44.99	0	50.00		90.0	47.1	136	45.50	0	0	
Surr: Nitrobenzene-d5	40.24	0	50.00		80.5	40.7	119	42.67	0	0	
Surr: Phenol-d5	55.89	0	100.0		55.9	18.1	120	52.99	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: ERM-Southeast
Project Name: AGL-Macon
Workorder: 1802M41

ANALYTICAL QC SUMMARY REPORT

BatchID: 256683

Sample ID: **MB-256683**	Client ID:				Units: **mg/L**		Prep Date: **03/01/2018**		Run No: **364287**
SampleType: **MBLK**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **256683**		Analysis Date: **03/01/2018**		Seq No: **8051920**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	2.00									

Sample ID: **LCS-256683**	Client ID:				Units: **mg/L**		Prep Date: **03/01/2018**		Run No: **364287**
SampleType: **LCS**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **256683**		Analysis Date: **03/01/2018**		Seq No: **8051921**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	376.0	2.00	376.0		100	70	130				

Sample ID: **1802M18-006DMS**	Client ID:				Units: **mg/L**		Prep Date: **03/01/2018**		Run No: **364287**
SampleType: **MS**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **256683**		Analysis Date: **03/01/2018**		Seq No: **8051927**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	18.00	2.00	18.80		95.7	62.8	125				

Sample ID: **1802M18-006DMSD**	Client ID:				Units: **mg/L**		Prep Date: **03/01/2018**		Run No: **364287**
SampleType: **MSD**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **256683**		Analysis Date: **03/01/2018**		Seq No: **8051928**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	16.60	2.00	18.80		88.3	62.8	125	18.00	8.09	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: ERM-Southeast
Project Name: AGL-Macon
Workorder: 1802M41

ANALYTICAL QC SUMMARY REPORT

BatchID: 256684

Sample ID: **MB-256684**	Client ID:				Units: **mg/L**		Prep Date: **03/01/2018**		Run No: **364266**	
SampleType: **MBLK**	TestCode: **Cyanide SW9014**				BatchID: **256684**		Analysis Date: **03/01/2018**		Seq No: **8051264**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	BRL	0.010									

Sample ID: **LCS-256684**	Client ID:				Units: **mg/L**		Prep Date: **03/01/2018**		Run No: **364266**	
SampleType: **LCS**	TestCode: **Cyanide SW9014**				BatchID: **256684**		Analysis Date: **03/01/2018**		Seq No: **8051265**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2240	0.010	0.2500		89.6	85	115				

Sample ID: **1802M18-007EMS**	Client ID:				Units: **mg/L**		Prep Date: **03/01/2018**		Run No: **364266**	
SampleType: **MS**	TestCode: **Cyanide SW9014**				BatchID: **256684**		Analysis Date: **03/01/2018**		Seq No: **8051282**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2460	0.010	0.2500		98.4	70	130				

Sample ID: **1802M18-007EMSD**	Client ID:				Units: **mg/L**		Prep Date: **03/01/2018**		Run No: **364266**	
SampleType: **MSD**	TestCode: **Cyanide SW9014**				BatchID: **256684**		Analysis Date: **03/01/2018**		Seq No: **8051286**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2440	0.010	0.2500		97.6	70	130	0.2460	0.816	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: ERM-Southeast
Project Name: AGL-Macon
Workorder: 1802M41

ANALYTICAL QC SUMMARY REPORT

BatchID: 256698

Sample ID: **MB-256698** Client ID: Units: **ug/L** Prep Date: **03/01/2018** Run No: **364275**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256698** Analysis Date: **03/01/2018** Seq No: **8051633**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	5.0									
Carbon disulfide	BRL	5.0									
Ethylbenzene	BRL	5.0									
Toluene	BRL	5.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	43.92	0	50.00		87.8	68	127				
Surr: Dibromofluoromethane	52.43	0	50.00		105	84.4	122				
Surr: Toluene-d8	51.22	0	50.00		102	80.1	116				

Sample ID: **LCS-256698** Client ID: Units: **ug/L** Prep Date: **03/01/2018** Run No: **364275**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256698** Analysis Date: **03/01/2018** Seq No: **8052227**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	41.49	5.0	50.00		83.0	73.7	126				
Toluene	42.28	5.0	50.00		84.6	76.8	125				
Surr: 4-Bromofluorobenzene	42.31	0	50.00		84.6	68	127				
Surr: Dibromofluoromethane	51.82	0	50.00		104	84.4	122				
Surr: Toluene-d8	50.58	0	50.00		101	80.1	116				

Sample ID: **1802L36-010AMS** Client ID: Units: **ug/L** Prep Date: **03/01/2018** Run No: **364275**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256698** Analysis Date: **03/02/2018** Seq No: **8052253**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	588.9	50	500.0	106.6	96.5	66.1	137				
Toluene	465.1	50	500.0		93.0	63.8	141				
Surr: 4-Bromofluorobenzene	443.6	0	500.0		88.7	68	127				
Surr: Dibromofluoromethane	522.4	0	500.0		104	84.4	122				
Surr: Toluene-d8	505.5	0	500.0		101	80.1	116				

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: ERM-Southeast
Project Name: AGL-Macon
Workorder: 1802M41

ANALYTICAL QC SUMMARY REPORT

BatchID: 256698

Sample ID: **1802L36-010AMSD** Client ID:
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **ug/L** Prep Date: **03/01/2018** Run No: **364275**
BatchID: **256698** Analysis Date: **03/02/2018** Seq No: **8052261**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	578.3	50	500.0	106.6	94.3	66.1	137	588.9	1.82	20	
Toluene	460.6	50	500.0		92.1	63.8	141	465.1	0.972	20	
Surr: 4-Bromofluorobenzene	432.0	0	500.0		86.4	68	127	443.6	0	0	
Surr: Dibromofluoromethane	509.2	0	500.0		102	84.4	122	522.4	0	0	
Surr: Toluene-d8	496.2	0	500.0		99.2	80.1	116	505.5	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: ERM-Southeast
Project Name: AGL-Macon
Workorder: 1802M41

ANALYTICAL QC SUMMARY REPORT

BatchID: 256775

Sample ID: **MB-256775**	Client ID:			Units: **mg/L**	Prep Date: **03/04/2018**	Run No: **364430**
SampleType: **MBLK**	TestCode: **Mercury, Total SW7470A**			BatchID: **256775**	Analysis Date: **03/04/2018**	Seq No: **8056205**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020									

Sample ID: **LCS-256775**	Client ID:			Units: **mg/L**	Prep Date: **03/04/2018**	Run No: **364430**
SampleType: **LCS**	TestCode: **Mercury, Total SW7470A**			BatchID: **256775**	Analysis Date: **03/04/2018**	Seq No: **8056206**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004076	0.00020	0.0040		102	80	120				

Sample ID: **1802M41-001GMS**	Client ID: **MW-12DD-20180223-01**			Units: **mg/L**	Prep Date: **03/04/2018**	Run No: **364430**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**			BatchID: **256775**	Analysis Date: **03/04/2018**	Seq No: **8056208**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004079	0.00020	0.0040		102	70	130				

Sample ID: **1802M41-002GMS**	Client ID: **MW-206D-20180223-01**			Units: **mg/L**	Prep Date: **03/04/2018**	Run No: **364430**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**			BatchID: **256775**	Analysis Date: **03/04/2018**	Seq No: **8056213**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004078	0.00020	0.0040		102	70	130				

Sample ID: **1802M41-001GMSD**	Client ID: **MW-12DD-20180223-01**			Units: **mg/L**	Prep Date: **03/04/2018**	Run No: **364430**
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**			BatchID: **256775**	Analysis Date: **03/04/2018**	Seq No: **8056211**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004098	0.00020	0.0040		102	70	130	0.004079	0.453	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: ERM-Southeast
Project Name: AGL-Macon
Workorder: 1802M41

ANALYTICAL QC SUMMARY REPORT

BatchID: R363982

Sample ID: **MB-R363982**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363982**	
SampleType: **MBLK**	TestCode: **Ferrous Iron**				BatchID: **R363982**		Analysis Date: **02/24/2018**		Seq No: **8043946**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R363982**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363982**	
SampleType: **LCS**	TestCode: **Ferrous Iron**				BatchID: **R363982**		Analysis Date: **02/24/2018**		Seq No: **8043947**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.4728	0.100	0.5000		94.6	85	115				

Sample ID: **1802M41-001HMS**	Client ID: **MW-12DD-20180223-01**				Units: **mg/L**		Prep Date:		Run No: **363982**	
SampleType: **MS**	TestCode: **Ferrous Iron**				BatchID: **R363982**		Analysis Date: **02/24/2018**		Seq No: **8043948**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5658	0.100	0.5000	0.05690	102	80	120				

Sample ID: **1802M41-001HMSD**	Client ID: **MW-12DD-20180223-01**				Units: **mg/L**		Prep Date:		Run No: **363982**	
SampleType: **MSD**	TestCode: **Ferrous Iron**				BatchID: **R363982**		Analysis Date: **02/24/2018**		Seq No: **8043949**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5548	0.100	0.5000	0.05690	99.6	80	120	0.5658	1.96	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: ERM-Southeast
Project Name: AGL-Macon
Workorder: 1802M41

ANALYTICAL QC SUMMARY REPORT

BatchID: R363997

Sample ID: **MB-R363997**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **363997**	
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**			BatchID: **R363997**	Analysis Date: **02/23/2018**		Seq No: **8044475**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R363997**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **363997**	
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**			BatchID: **R363997**	Analysis Date: **02/23/2018**		Seq No: **8044474**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.247	0.25	5.000		105	90	110				
Sulfate	24.29	1.0	25.00		97.1	90	110				

Sample ID: **1802M41-001EMS**	Client ID: **MW-12DD-20180223-01**			Units: **mg/L**	Prep Date:		Run No: **363997**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**			BatchID: **R363997**	Analysis Date: **02/24/2018**		Seq No: **8044528**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	50.73	2.5	50.00		101	90	110				
Sulfate	258.2	10	250.0	1.557	103	90	110				

Sample ID: **1802M41-002EMS**	Client ID: **MW-206D-20180223-01**			Units: **mg/L**	Prep Date:		Run No: **363997**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**			BatchID: **R363997**	Analysis Date: **02/24/2018**		Seq No: **8044532**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	55.30	2.5	50.00		111	90	110				S
Sulfate	363.5	10	250.0	116.9	98.6	90	110				

Sample ID: **1802M41-001EMSD**	Client ID: **MW-12DD-20180223-01**			Units: **mg/L**	Prep Date:		Run No: **363997**	
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**			BatchID: **R363997**	Analysis Date: **02/24/2018**		Seq No: **8044529**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	50.91	2.5	50.00		102	90	110	50.73	0.345	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: ERM-Southeast
Project Name: AGL-Macon
Workorder: 1802M41

ANALYTICAL QC SUMMARY REPORT

BatchID: R363997

Sample ID: **1802M41-001EMSD** Client ID: **MW-12DD-20180223-01** Units: **mg/L** Prep Date: Run No: **363997**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R363997** Analysis Date: **02/24/2018** Seq No: **8044529**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	257.0	10	250.0	1.557	102	90	110	258.2	0.465	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: ERM-Southeast
Project Name: AGL-Macon
Workorder: 1802M41

ANALYTICAL QC SUMMARY REPORT

BatchID: R364010

Sample ID: **MB-R364010**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **364010**
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**			BatchID: **R364010**	Analysis Date: **02/24/2018**		Seq No: **8044908**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R364010**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **364010**
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**			BatchID: **R364010**	Analysis Date: **02/24/2018**		Seq No: **8044907**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.381	0.25	5.000		108	90	110				
Sulfate	24.46	1.0	25.00		97.8	90	110				

Sample ID: **1802M41-003EMS**	Client ID: **MW-08-20180223-01**			Units: **mg/L**	Prep Date:		Run No: **364010**
SampleType: **MS**	TestCode: **ION SCAN SW9056A**			BatchID: **R364010**	Analysis Date: **02/24/2018**		Seq No: **8044931**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	53.38	2.5	50.00	0.9641	105	90	110				
Sulfate	293.5	10	250.0	47.51	98.4	90	110				

Sample ID: **1802M41-004EMS**	Client ID: **MW-205DD-20180223-01**			Units: **mg/L**	Prep Date:		Run No: **364010**
SampleType: **MS**	TestCode: **ION SCAN SW9056A**			BatchID: **R364010**	Analysis Date: **02/24/2018**		Seq No: **8044935**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	50.61	2.5	50.00		101	90	110				
Sulfate	285.6	10	250.0	33.67	101	90	110				

Sample ID: **1802M41-003EMSD**	Client ID: **MW-08-20180223-01**			Units: **mg/L**	Prep Date:		Run No: **364010**
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**			BatchID: **R364010**	Analysis Date: **02/24/2018**		Seq No: **8044932**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	53.76	2.5	50.00	0.9641	106	90	110	53.38	0.717	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: ERM-Southeast
Project Name: AGL-Macon
Workorder: 1802M41

ANALYTICAL QC SUMMARY REPORT

BatchID: R364010

Sample ID: **1802M41-003EMSD** Client ID: **MW-08-20180223-01** Units: **mg/L** Prep Date: Run No: **364010**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R364010** Analysis Date: **02/24/2018** Seq No: **8044932**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	292.0	10	250.0	47.51	97.8	90	110	293.5	0.517	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.

March 16, 2018

Adria Reimer
ERM-Southeast

3200 Windy Hill Rd
Atlanta GA 30339

RE: AGLC-Macon

Dear Adria Reimer: Order No: 1802N75

Analytical Environmental Services, Inc. received 7 samples on February 26, 2018 6:24 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's accreditations are as follows:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.
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.

Sincerely,

Mirzeta Kararic

Mirzeta Kararic

Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1802N75

Date: 2-26-18 Page 1 of 1

COMPANY: ERM

ADDRESS: 3200 Windy Hill Road Suite 1500 Atlanta Georgia 30339

PHONE: 678 486 2700

EMAIL: adam.reimer@erm.com

SAMPLED BY: Markwous Thomas & Hannah Breaugh

SIGNATURE: [signature]

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	SVOC's	VOC's	Methane	Diss. Gasses	Nitrate/Sulfate	Sulfide	Total Metals/Hg	Ferrous Fe	Total Cyanide					REMARKS	Number of Containers
						PRESERVATION (see codes)	I	H+I	H+I	BSK	I	ZnNaOH	N+I	I	NaOH						
1	MW-205D-20180226-01	2-26-18	1145	✓		GW	✓	✓	✓	✓	✓	✓	✓	✓	✓						13
2	MW-21-20180226-01	2-26-18	1255	✓		GW	✓	✓	✓	✓	✓	✓	✓	✓	✓						13
3	MW-14I-20180226-01	2-26-18	1510	✓		GW	✓	✓	✓	✓	✓	✓	✓	✓	✓						13
4	MW-14-20180226-01	2-26-18	1545	✓		GW	✓	✓	✓	✓	✓	✓	✓	✓	✓						13
5	DUP-5-20180226-01	2-26-18	--	✓		GW	✓	✓	✓	✓	✓	✓	✓	✓	✓						13
6	TB-1-20180226-01	--	--	✓		W		✓													2
7	TB-2 20180226-01	--	--	✓		W		✓													2
8	TB-3 20180226-01	--	--	✓		W		✓													2
9																					
10																					
11																					
12																					
13																					
14																					

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. [signature]	2-26-18 1824	1. [signature]	2/26/18 1824
2.		2.	
3.		3.	

PROJECT INFORMATION

PROJECT NAME: AGL-Macon

PROJECT #: 0366660

SITE ADDRESS: 137 Mulberry Street Macon GA

SEND REPORT TO: Adam.Reimer@erm.com

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers: 71

Turnaround Time (TAT) Request

- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush **(auth req.)**
- [ ] Other

STATE PROGRAM (if any): GA

E-mail? [x] Fax? [ ]

DATA PACKAGE: I ○ II ○ III ○ IV ○

SPECIAL INSTRUCTIONS/COMMENTS: *24 hr holds*

SHIPMENT METHOD

OUT: / / VIA:

IN: / / VIA:

(client) FedEx UPS US mail courier Greyhound

other:

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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: 16-Mar-18

Client: ERM-Southeast
Project: AGLC-Macon
Lab ID: 1802N75

Case Narrative

Sample Receiving Nonconformance:

Sample "TB-3-20180226-01", was listed on the chain of custody but not present. The laboratory proceeded with analysis of the trip blanks received.

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, samples 1802N75-001A, & -005A required dilution during preparation and/or analysis resulting in elevated reporting limits.

PAH Analysis by Method 8270D SIM:

Percent recovery for the surrogate spiking compound 4-Terphenyl-d14 on sample LCSD-256721 was outside control limits biased high.

Matrix spike and matrix spike duplicate analyses were not performed with Batch 256721 due to insufficient sample volume.

Ferrous Iron by SM3500Fe-B:

Method 3500Fe-B as listed in Standard Methods for the Examination of Water and Wastewater 22nd Edition is applicable for analyzing Ferrous Iron in the field. Samples were analyzed in the laboratory which is a deviation from the method.

Sample ID "DUP-5-20180226-01" reporting with an H-Flag since there is no collection time on the COC.

Analytical Environmental Services, Inc **Date:** 16-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-205D-20180226-01
Project Name:	AGLC-Macon	**Collection Date:**	2/26/2018 11:45:00 AM
Lab ID:	1802N75-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	6100	250		ug/L	256557	50	03/02/2018 12:59	OM
Carbon disulfide	BRL	250		ug/L	256557	50	03/02/2018 12:59	OM
Ethylbenzene	1600	250		ug/L	256557	50	03/02/2018 12:59	OM
Toluene	BRL	250		ug/L	256557	50	03/02/2018 12:59	OM
Xylenes, Total	620	250		ug/L	256557	50	03/02/2018 12:59	OM
Surr: 4-Bromofluorobenzene	103	68-127		%REC	256557	50	03/02/2018 12:59	OM
Surr: Dibromofluoromethane	96.5	84.4-122		%REC	256557	50	03/02/2018 12:59	OM
Surr: Toluene-d8	97.6	80.1-116		%REC	256557	50	03/02/2018 12:59	OM
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256683	1	03/02/2018 10:45	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	3300	500		ug/L	256721	1000	03/02/2018 17:55	YH
Acenaphthylene	BRL	1.0		ug/L	256721	1	03/02/2018 14:20	YH
Acenaphthene	110	50		ug/L	256721	100	03/02/2018 17:28	YH
Fluorene	26	10		ug/L	256721	100	03/02/2018 17:28	YH
Phenanthrene	26	5.0		ug/L	256721	100	03/02/2018 17:28	YH
Anthracene	4.6	0.050		ug/L	256721	1	03/02/2018 14:20	YH
Fluoranthene	1.2	0.10		ug/L	256721	1	03/02/2018 14:20	YH
Pyrene	1.5	0.050		ug/L	256721	1	03/02/2018 14:20	YH
Benz(a)anthracene	BRL	0.050		ug/L	256721	1	03/02/2018 14:20	YH
Chrysene	BRL	0.050		ug/L	256721	1	03/02/2018 14:20	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256721	1	03/02/2018 14:20	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256721	1	03/02/2018 14:20	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256721	1	03/02/2018 14:20	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256721	1	03/02/2018 14:20	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256721	1	03/02/2018 14:20	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256721	1	03/02/2018 14:20	YH
Surr: 4-Terphenyl-d14	107	59.9-128		%REC	256721	1	03/02/2018 14:20	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256628	1	03/01/2018 21:51	YH
2-Methylphenol	BRL	10		ug/L	256628	1	03/01/2018 21:51	YH
3,4-Methylphenol	BRL	10		ug/L	256628	1	03/01/2018 21:51	YH
Phenol	BRL	10		ug/L	256628	1	03/01/2018 21:51	YH
Surr: 2,4,6-Tribromophenol	77	51.4-138		%REC	256628	1	03/01/2018 21:51	YH
Surr: 2-Fluorobiphenyl	83.8	44.6-119		%REC	256628	1	03/01/2018 21:51	YH
Surr: 2-Fluorophenol	62.3	27.2-120		%REC	256628	1	03/01/2018 21:51	YH
Surr: 4-Terphenyl-d14	91.3	47.1-136		%REC	256628	1	03/01/2018 21:51	YH
Surr: Nitrobenzene-d5	111	40.7-119		%REC	256628	1	03/01/2018 21:51	YH

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:** 16-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-205D-20180226-01
Project Name:	AGLC-Macon	**Collection Date:**	2/26/2018 11:45:00 AM
Lab ID:	1802N75-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	54.2	18.1-120		%REC	256628	1	03/01/2018 21:51	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256775	1	03/04/2018 22:36	AJ
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R364092	1	02/27/2018 12:11	MP
Sulfate	BRL	1.0		mg/L	R364092	1	02/27/2018 12:11	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	4600	160		ug/L	256594	40	02/28/2018 17:59	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	1.27	0.500		mg/L	R364001	5	02/27/2018 07:00	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	0.013	0.010		mg/L	256684	1	03/02/2018 11:00	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256513	1	03/02/2018 15:16	IO
Arsenic	BRL	0.0500		mg/L	256513	1	03/02/2018 15:16	IO
Barium	4.17	0.0200		mg/L	256513	1	03/02/2018 15:16	IO
Beryllium	BRL	0.0100		mg/L	256513	1	03/02/2018 15:16	IO
Cadmium	BRL	0.0050		mg/L	256513	1	03/02/2018 15:16	IO
Chromium	BRL	0.0100		mg/L	256513	1	03/02/2018 15:16	IO
Copper	BRL	0.0100		mg/L	256513	1	03/02/2018 15:16	IO
Iron	6.73	0.100		mg/L	256513	1	03/02/2018 15:16	IO
Lead	BRL	0.0100		mg/L	256513	1	03/02/2018 15:16	IO
Nickel	BRL	0.0200		mg/L	256513	1	03/02/2018 15:16	IO
Zinc	BRL	0.0200		mg/L	256513	1	03/02/2018 15:16	IO

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:** 16-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-21-20180226-01
Project Name:	AGLC-Macon	**Collection Date:**	2/26/2018 12:55:00 PM
Lab ID:	1802N75-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256557	1	03/02/2018 11:40	OM
Carbon disulfide	BRL	5.0		ug/L	256557	1	03/02/2018 11:40	OM
Ethylbenzene	BRL	5.0		ug/L	256557	1	03/02/2018 11:40	OM
Toluene	BRL	5.0		ug/L	256557	1	03/02/2018 11:40	OM
Xylenes, Total	BRL	5.0		ug/L	256557	1	03/02/2018 11:40	OM
Surr: 4-Bromofluorobenzene	97.8	68-127		%REC	256557	1	03/02/2018 11:40	OM
Surr: Dibromofluoromethane	101	84.4-122		%REC	256557	1	03/02/2018 11:40	OM
Surr: Toluene-d8	98.6	80.1-116		%REC	256557	1	03/02/2018 11:40	OM
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256683	1	03/02/2018 10:45	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256721	1	03/02/2018 14:46	YH
Acenaphthylene	BRL	1.0		ug/L	256721	1	03/02/2018 14:46	YH
Acenaphthene	BRL	0.50		ug/L	256721	1	03/02/2018 14:46	YH
Fluorene	BRL	0.10		ug/L	256721	1	03/02/2018 14:46	YH
Phenanthrene	BRL	0.050		ug/L	256721	1	03/02/2018 14:46	YH
Anthracene	BRL	0.050		ug/L	256721	1	03/02/2018 14:46	YH
Fluoranthene	BRL	0.10		ug/L	256721	1	03/02/2018 14:46	YH
Pyrene	BRL	0.050		ug/L	256721	1	03/02/2018 14:46	YH
Benz(a)anthracene	BRL	0.050		ug/L	256721	1	03/02/2018 14:46	YH
Chrysene	0.066	0.050		ug/L	256721	1	03/02/2018 14:46	YH
Benzo(b)fluoranthene	0.23	0.10		ug/L	256721	1	03/02/2018 14:46	YH
Benzo(k)fluoranthene	0.19	0.050		ug/L	256721	1	03/02/2018 14:46	YH
Benzo(a)pyrene	0.10	0.050		ug/L	256721	1	03/02/2018 14:46	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256721	1	03/02/2018 14:46	YH
Dibenz(a,h)anthracene	0.29	0.10		ug/L	256721	1	03/02/2018 14:46	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256721	1	03/02/2018 14:46	YH
Surr: 4-Terphenyl-d14	98.6	59.9-128		%REC	256721	1	03/02/2018 14:46	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256628	1	03/01/2018 22:18	YH
2-Methylphenol	BRL	10		ug/L	256628	1	03/01/2018 22:18	YH
3,4-Methylphenol	BRL	10		ug/L	256628	1	03/01/2018 22:18	YH
Phenol	BRL	10		ug/L	256628	1	03/01/2018 22:18	YH
Surr: 2,4,6-Tribromophenol	68.2	51.4-138		%REC	256628	1	03/01/2018 22:18	YH
Surr: 2-Fluorobiphenyl	81.1	44.6-119		%REC	256628	1	03/01/2018 22:18	YH
Surr: 2-Fluorophenol	59.7	27.2-120		%REC	256628	1	03/01/2018 22:18	YH
Surr: 4-Terphenyl-d14	85.7	47.1-136		%REC	256628	1	03/01/2018 22:18	YH
Surr: Nitrobenzene-d5	82.5	40.7-119		%REC	256628	1	03/01/2018 22:18	YH

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:** 16-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-21-20180226-01
Project Name:	AGLC-Macon	**Collection Date:**	2/26/2018 12:55:00 PM
Lab ID:	1802N75-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	51.2	18.1-120		%REC	256628	1	03/01/2018 22:18	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256775	1	03/04/2018 22:40	AJ
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R364092	1	02/27/2018 12:26	MP
Sulfate	16	1.0		mg/L	R364092	1	02/27/2018 12:26	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	17	4.0		ug/L	256594	1	02/28/2018 16:42	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	0.790	0.100		mg/L	R364001	1	02/27/2018 07:00	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	BRL	0.010		mg/L	256684	1	03/02/2018 11:00	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256513	1	03/02/2018 15:20	IO
Arsenic	BRL	0.0500		mg/L	256513	1	03/02/2018 15:20	IO
Barium	0.143	0.0200		mg/L	256513	1	03/02/2018 15:20	IO
Beryllium	BRL	0.0100		mg/L	256513	1	03/02/2018 15:20	IO
Cadmium	BRL	0.0050		mg/L	256513	1	03/02/2018 15:20	IO
Chromium	BRL	0.0100		mg/L	256513	1	03/02/2018 15:20	IO
Copper	BRL	0.0100		mg/L	256513	1	03/02/2018 15:20	IO
Iron	1.60	0.100		mg/L	256513	1	03/02/2018 15:20	IO
Lead	BRL	0.0100		mg/L	256513	1	03/02/2018 15:20	IO
Nickel	BRL	0.0200		mg/L	256513	1	03/02/2018 15:20	IO
Zinc	0.0476	0.0200		mg/L	256513	1	03/02/2018 15:20	IO

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:** 16-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-14I-20180226-01
Project Name:	AGLC-Macon	**Collection Date:**	2/26/2018 3:10:00 PM
Lab ID:	1802N75-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256557	1	03/02/2018 12:07	OM
Carbon disulfide	BRL	5.0		ug/L	256557	1	03/02/2018 12:07	OM
Ethylbenzene	BRL	5.0		ug/L	256557	1	03/02/2018 12:07	OM
Toluene	BRL	5.0		ug/L	256557	1	03/02/2018 12:07	OM
Xylenes, Total	BRL	5.0		ug/L	256557	1	03/02/2018 12:07	OM
Surr: 4-Bromofluorobenzene	98.5	68-127		%REC	256557	1	03/02/2018 12:07	OM
Surr: Dibromofluoromethane	102	84.4-122		%REC	256557	1	03/02/2018 12:07	OM
Surr: Toluene-d8	98.7	80.1-116		%REC	256557	1	03/02/2018 12:07	OM
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256683	1	03/02/2018 10:45	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256721	1	03/02/2018 15:12	YH
Acenaphthylene	BRL	1.0		ug/L	256721	1	03/02/2018 15:12	YH
Acenaphthene	1.7	0.50		ug/L	256721	1	03/02/2018 15:12	YH
Fluorene	0.84	0.10		ug/L	256721	1	03/02/2018 15:12	YH
Phenanthrene	BRL	0.050		ug/L	256721	1	03/02/2018 15:12	YH
Anthracene	0.057	0.050		ug/L	256721	1	03/02/2018 15:12	YH
Fluoranthene	0.12	0.10		ug/L	256721	1	03/02/2018 15:12	YH
Pyrene	0.31	0.050		ug/L	256721	1	03/02/2018 15:12	YH
Benz(a)anthracene	BRL	0.050		ug/L	256721	1	03/02/2018 15:12	YH
Chrysene	BRL	0.050		ug/L	256721	1	03/02/2018 15:12	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256721	1	03/02/2018 15:12	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256721	1	03/02/2018 15:12	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256721	1	03/02/2018 15:12	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256721	1	03/02/2018 15:12	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256721	1	03/02/2018 15:12	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256721	1	03/02/2018 15:12	YH
Surr: 4-Terphenyl-d14	102	59.9-128		%REC	256721	1	03/02/2018 15:12	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256628	1	03/01/2018 22:46	YH
2-Methylphenol	BRL	10		ug/L	256628	1	03/01/2018 22:46	YH
3,4-Methylphenol	BRL	10		ug/L	256628	1	03/01/2018 22:46	YH
Phenol	BRL	10		ug/L	256628	1	03/01/2018 22:46	YH
Surr: 2,4,6-Tribromophenol	73	51.4-138		%REC	256628	1	03/01/2018 22:46	YH
Surr: 2-Fluorobiphenyl	84.1	44.6-119		%REC	256628	1	03/01/2018 22:46	YH
Surr: 2-Fluorophenol	66.8	27.2-120		%REC	256628	1	03/01/2018 22:46	YH
Surr: 4-Terphenyl-d14	90.5	47.1-136		%REC	256628	1	03/01/2018 22:46	YH
Surr: Nitrobenzene-d5	87.8	40.7-119		%REC	256628	1	03/01/2018 22:46	YH

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:** 16-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-14I-20180226-01
Project Name:	AGLC-Macon	**Collection Date:**	2/26/2018 3:10:00 PM
Lab ID:	1802N75-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	58.1	18.1-120		%REC	256628	1	03/01/2018 22:46	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256775	1	03/04/2018 22:44	AJ
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R364092	1	02/27/2018 12:41	MP
Sulfate	73	1.0		mg/L	R364092	1	02/27/2018 12:41	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	100	4.0		ug/L	256594	1	02/28/2018 16:47	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	4.42	0.500		mg/L	R364001	5	02/27/2018 07:00	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	256684	1	03/02/2018 11:00	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256513	1	03/02/2018 15:24	IO
Arsenic	BRL	0.0500		mg/L	256513	1	03/02/2018 15:24	IO
Barium	0.156	0.0200		mg/L	256513	1	03/02/2018 15:24	IO
Beryllium	BRL	0.0100		mg/L	256513	1	03/02/2018 15:24	IO
Cadmium	BRL	0.0050		mg/L	256513	1	03/02/2018 15:24	IO
Chromium	BRL	0.0100		mg/L	256513	1	03/02/2018 15:24	IO
Copper	BRL	0.0100		mg/L	256513	1	03/02/2018 15:24	IO
Iron	7.82	0.100		mg/L	256513	1	03/02/2018 15:24	IO
Lead	BRL	0.0100		mg/L	256513	1	03/02/2018 15:24	IO
Nickel	BRL	0.0200		mg/L	256513	1	03/02/2018 15:24	IO
Zinc	BRL	0.0200		mg/L	256513	1	03/02/2018 15:24	IO

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:** 16-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-14-20180226-01
Project Name:	AGLC-Macon	**Collection Date:**	2/26/2018 3:45:00 PM
Lab ID:	1802N75-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256557	1	03/02/2018 12:33	OM
Carbon disulfide	BRL	5.0		ug/L	256557	1	03/02/2018 12:33	OM
Ethylbenzene	BRL	5.0		ug/L	256557	1	03/02/2018 12:33	OM
Toluene	BRL	5.0		ug/L	256557	1	03/02/2018 12:33	OM
Xylenes, Total	BRL	5.0		ug/L	256557	1	03/02/2018 12:33	OM
Surr: 4-Bromofluorobenzene	98.7	68-127		%REC	256557	1	03/02/2018 12:33	OM
Surr: Dibromofluoromethane	97.2	84.4-122		%REC	256557	1	03/02/2018 12:33	OM
Surr: Toluene-d8	99.6	80.1-116		%REC	256557	1	03/02/2018 12:33	OM
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256683	1	03/02/2018 10:45	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	256721	1	03/02/2018 15:39	YH
Acenaphthylene	BRL	1.0		ug/L	256721	1	03/02/2018 15:39	YH
Acenaphthene	BRL	0.50		ug/L	256721	1	03/02/2018 15:39	YH
Fluorene	BRL	0.10		ug/L	256721	1	03/02/2018 15:39	YH
Phenanthrene	BRL	0.050		ug/L	256721	1	03/02/2018 15:39	YH
Anthracene	BRL	0.050		ug/L	256721	1	03/02/2018 15:39	YH
Fluoranthene	BRL	0.10		ug/L	256721	1	03/02/2018 15:39	YH
Pyrene	BRL	0.050		ug/L	256721	1	03/02/2018 15:39	YH
Benz(a)anthracene	BRL	0.050		ug/L	256721	1	03/02/2018 15:39	YH
Chrysene	BRL	0.050		ug/L	256721	1	03/02/2018 15:39	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256721	1	03/02/2018 15:39	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256721	1	03/02/2018 15:39	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256721	1	03/02/2018 15:39	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256721	1	03/02/2018 15:39	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256721	1	03/02/2018 15:39	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256721	1	03/02/2018 15:39	YH
Surr: 4-Terphenyl-d14	109	59.9-128		%REC	256721	1	03/02/2018 15:39	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256628	1	03/01/2018 23:13	YH
2-Methylphenol	BRL	10		ug/L	256628	1	03/01/2018 23:13	YH
3,4-Methylphenol	BRL	10		ug/L	256628	1	03/01/2018 23:13	YH
Phenol	BRL	10		ug/L	256628	1	03/01/2018 23:13	YH
Surr: 2,4,6-Tribromophenol	66.5	51.4-138		%REC	256628	1	03/01/2018 23:13	YH
Surr: 2-Fluorobiphenyl	76.4	44.6-119		%REC	256628	1	03/01/2018 23:13	YH
Surr: 2-Fluorophenol	64.4	27.2-120		%REC	256628	1	03/01/2018 23:13	YH
Surr: 4-Terphenyl-d14	91.2	47.1-136		%REC	256628	1	03/01/2018 23:13	YH
Surr: Nitrobenzene-d5	80.1	40.7-119		%REC	256628	1	03/01/2018 23:13	YH

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:** 16-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-14-20180226-01
Project Name:	AGLC-Macon	**Collection Date:**	2/26/2018 3:45:00 PM
Lab ID:	1802N75-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	56.4	18.1-120		%REC	256628	1	03/01/2018 23:13	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256775	1	03/04/2018 22:48	AJ
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R364092	1	02/27/2018 11:40	MP
Sulfate	18	1.0		mg/L	R364092	1	02/27/2018 11:40	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	43	4.0		ug/L	256594	1	02/28/2018 16:53	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	0.262	0.100		mg/L	R364001	1	02/27/2018 07:00	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	256684	1	03/02/2018 11:00	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256513	1	03/02/2018 15:28	IO
Arsenic	BRL	0.0500		mg/L	256513	1	03/02/2018 15:28	IO
Barium	0.132	0.0200		mg/L	256513	1	03/02/2018 15:28	IO
Beryllium	BRL	0.0100		mg/L	256513	1	03/02/2018 15:28	IO
Cadmium	BRL	0.0050		mg/L	256513	1	03/02/2018 15:28	IO
Chromium	BRL	0.0100		mg/L	256513	1	03/02/2018 15:28	IO
Copper	BRL	0.0100		mg/L	256513	1	03/02/2018 15:28	IO
Iron	0.634	0.100		mg/L	256513	1	03/02/2018 15:28	IO
Lead	BRL	0.0100		mg/L	256513	1	03/02/2018 15:28	IO
Nickel	BRL	0.0200		mg/L	256513	1	03/02/2018 15:28	IO
Zinc	0.0435	0.0200		mg/L	256513	1	03/02/2018 15:28	IO

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:** 16-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	DUP-5-20180226-01
Project Name:	AGLC-Macon	**Collection Date:**	2/26/2018
Lab ID:	1802N75-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	6200	250		ug/L	256557	50	03/02/2018 13:34	OM
Carbon disulfide	BRL	250		ug/L	256557	50	03/02/2018 13:34	OM
Ethylbenzene	1600	250		ug/L	256557	50	03/02/2018 13:34	OM
Toluene	BRL	250		ug/L	256557	50	03/02/2018 13:34	OM
Xylenes, Total	640	250		ug/L	256557	50	03/02/2018 13:34	OM
Surr: 4-Bromofluorobenzene	102	68-127		%REC	256557	50	03/02/2018 13:34	OM
Surr: Dibromofluoromethane	99.3	84.4-122		%REC	256557	50	03/02/2018 13:34	OM
Surr: Toluene-d8	96.9	80.1-116		%REC	256557	50	03/02/2018 13:34	OM
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256683	1	03/02/2018 10:45	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	4000	500		ug/L	256721	1000	03/02/2018 18:22	YH
Acenaphthylene	BRL	1.0		ug/L	256721	1	03/02/2018 16:06	YH
Acenaphthene	110	50		ug/L	256721	100	03/02/2018 17:01	YH
Fluorene	27	10		ug/L	256721	100	03/02/2018 17:01	YH
Phenanthrene	28	5.0		ug/L	256721	100	03/02/2018 17:01	YH
Anthracene	5.5	0.050		ug/L	256721	1	03/02/2018 16:06	YH
Fluoranthene	1.5	0.10		ug/L	256721	1	03/02/2018 16:06	YH
Pyrene	1.9	0.050		ug/L	256721	1	03/02/2018 16:06	YH
Benz(a)anthracene	BRL	0.050		ug/L	256721	1	03/02/2018 16:06	YH
Chrysene	BRL	0.050		ug/L	256721	1	03/02/2018 16:06	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256721	1	03/02/2018 16:06	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256721	1	03/02/2018 16:06	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256721	1	03/02/2018 16:06	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256721	1	03/02/2018 16:06	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256721	1	03/02/2018 16:06	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256721	1	03/02/2018 16:06	YH
Surr: 4-Terphenyl-d14	101	59.9-128		%REC	256721	1	03/02/2018 16:06	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256628	1	03/01/2018 23:40	YH
2-Methylphenol	BRL	10		ug/L	256628	1	03/01/2018 23:40	YH
3,4-Methylphenol	BRL	10		ug/L	256628	1	03/01/2018 23:40	YH
Phenol	BRL	10		ug/L	256628	1	03/01/2018 23:40	YH
Surr: 2,4,6-Tribromophenol	72.7	51.4-138		%REC	256628	1	03/01/2018 23:40	YH
Surr: 2-Fluorobiphenyl	77.8	44.6-119		%REC	256628	1	03/01/2018 23:40	YH
Surr: 2-Fluorophenol	55.7	27.2-120		%REC	256628	1	03/01/2018 23:40	YH
Surr: 4-Terphenyl-d14	85.9	47.1-136		%REC	256628	1	03/01/2018 23:40	YH
Surr: Nitrobenzene-d5	96.5	40.7-119		%REC	256628	1	03/01/2018 23:40	YH

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:** 16-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	DUP-5-20180226-01
Project Name:	AGLC-Macon	**Collection Date:**	2/26/2018
Lab ID:	1802N75-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	49.8	18.1-120		%REC	256628	1	03/01/2018 23:40	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256775	1	03/04/2018 22:52	AJ
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R364092	1	02/27/2018 11:54	MP
Sulfate	BRL	1.0		mg/L	R364092	1	02/27/2018 11:54	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	3500	80		ug/L	256594	20	02/28/2018 18:10	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	3.99	0.500	H	mg/L	R364001	5	02/27/2018 07:00	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	0.017	0.010		mg/L	256684	1	03/02/2018 11:00	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256513	1	03/02/2018 15:31	IO
Arsenic	BRL	0.0500		mg/L	256513	1	03/02/2018 15:31	IO
Barium	4.24	0.0200		mg/L	256513	1	03/02/2018 15:31	IO
Beryllium	BRL	0.0100		mg/L	256513	1	03/02/2018 15:31	IO
Cadmium	BRL	0.0050		mg/L	256513	1	03/02/2018 15:31	IO
Chromium	BRL	0.0100		mg/L	256513	1	03/02/2018 15:31	IO
Copper	BRL	0.0100		mg/L	256513	1	03/02/2018 15:31	IO
Iron	6.76	0.100		mg/L	256513	1	03/02/2018 15:31	IO
Lead	BRL	0.0100		mg/L	256513	1	03/02/2018 15:31	IO
Nickel	BRL	0.0200		mg/L	256513	1	03/02/2018 15:31	IO
Zinc	BRL	0.0200		mg/L	256513	1	03/02/2018 15:31	IO

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:** 16-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-1-20180226-01
Project Name:	AGLC-Macon	**Collection Date:**	2/26/2018
Lab ID:	1802N75-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256557	1	03/02/2018 04:57	NP
Carbon disulfide	BRL	5.0		ug/L	256557	1	03/02/2018 04:57	NP
Ethylbenzene	BRL	5.0		ug/L	256557	1	03/02/2018 04:57	NP
Toluene	BRL	5.0		ug/L	256557	1	03/02/2018 04:57	NP
Xylenes, Total	BRL	5.0		ug/L	256557	1	03/02/2018 04:57	NP
Surr: 4-Bromofluorobenzene	83.1	68-127		%REC	256557	1	03/02/2018 04:57	NP
Surr: Dibromofluoromethane	105	84.4-122		%REC	256557	1	03/02/2018 04:57	NP
Surr: Toluene-d8	104	80.1-116		%REC	256557	1	03/02/2018 04:57	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:** 16-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-2-20180226-01
Project Name:	AGLC-Macon	**Collection Date:**	2/26/2018
Lab ID:	1802N75-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256557	1	03/02/2018 05:21	NP
Carbon disulfide	BRL	5.0		ug/L	256557	1	03/02/2018 05:21	NP
Ethylbenzene	BRL	5.0		ug/L	256557	1	03/02/2018 05:21	NP
Toluene	BRL	5.0		ug/L	256557	1	03/02/2018 05:21	NP
Xylenes, Total	BRL	5.0		ug/L	256557	1	03/02/2018 05:21	NP
Surr: 4-Bromofluorobenzene	86.2	68-127		%REC	256557	1	03/02/2018 05:21	NP
Surr: Dibromofluoromethane	109	84.4-122		%REC	256557	1	03/02/2018 05:21	NP
Surr: Toluene-d8	102	80.1-116		%REC	256557	1	03/02/2018 05:21	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

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

March 8, 2018

Mirzeta Kararic
Analytical Environmental Services, Inc.
3785 Presidential Parkway
Suite 111
Atlanta, GA 30340

RE: **1802N75**

Pace Workorder: 25813

Dear Mirzeta Kararic:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, February 28, 2018. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Ruth Welsh 03/08/2018
Ruth.Welsh@pacelabs.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email PAESfeedback@pacelabs.com.

Total Number of Pages 14

CERTIFICATE OF ANALYSIS

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water
Accreditor:	West Virginia Department of Environmental Protection, Division of Water and Waste Management
Accreditation ID:	395
Scope:	Non-Potable Water
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	State of Virginia
Accreditation ID:	460201
Scope:	Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

Pace Analytical Energy Services LLC
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SAMPLE SUMMARY

Workorder: 25813 1802N75

Lab ID	Sample ID	Matrix	Date Collected	Date Received
258130001	MW-205D-20180226-01	Water	2/26/2018 11:45	2/28/2018 11:45
258130002	MW-21-20180226-01	Water	2/26/2018 12:55	2/28/2018 11:45
258130003	MW-14I-20180226-01	Water	2/26/2018 15:10	2/28/2018 11:45
258130004	MW-14-20180226-01	Water	2/26/2018 15:45	2/28/2018 11:45
258130005	DUP-5-20180226-01	Water	2/26/2018 00:00	2/28/2018 11:45

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ANALYTICAL RESULTS

Workorder: 25813 1802N75

Lab ID: **258130001** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **MW-205D-20180226-01** Date Collected: 2/26/2018 11:45

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**140**	mg/l	5.0	0.32	1	3/7/2018 12:41	TD	n
Oxygen	**3.9**	mg/l	0.50	0.12	1	3/7/2018 12:41	TD	n
Nitrogen	**17**	mg/l	2.0	0.34	1	3/7/2018 12:41	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/7/2018 12:41	TD	n

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ANALYTICAL RESULTS

Workorder: 25813 1802N75

Lab ID: **258130002** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **MW-21-20180226-01** Date Collected: 2/26/2018 12:55

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**100**	mg/l	5.0	0.32	1	3/7/2018 12:54	TD	n
Oxygen	**3.7**	mg/l	0.50	0.12	1	3/7/2018 12:54	TD	n
Nitrogen	**14**	mg/l	2.0	0.34	1	3/7/2018 12:54	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/7/2018 12:54	TD	n

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ANALYTICAL RESULTS

Workorder: 25813 1802N75

Lab ID: **258130003** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **MW-14I-20180226-01** Date Collected: 2/26/2018 15:10

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**85**	mg/l	5.0	0.32	1	3/7/2018 13:06	TD	n
Oxygen	**6.5**	mg/l	0.50	0.12	1	3/7/2018 13:06	TD	n
Nitrogen	**18**	mg/l	2.0	0.34	1	3/7/2018 13:06	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/7/2018 13:06	TD	n

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ANALYTICAL RESULTS

Workorder: 25813 1802N75

Lab ID: **258130004** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **MW-14-20180226-01** Date Collected: 2/26/2018 15:45

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**83**	mg/l	5.0	0.32	1	3/7/2018 13:19	TD	n
Oxygen	**5.3**	mg/l	0.50	0.12	1	3/7/2018 13:19	TD	n
Nitrogen	**15**	mg/l	2.0	0.34	1	3/7/2018 13:19	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/7/2018 13:19	TD	n

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ANALYTICAL RESULTS

Workorder: 25813 1802N75

Lab ID: **258130005** Date Received: 2/28/2018 11:45 Matrix: Water

Sample ID: **DUP-5-20180226-01** Date Collected: 2/26/2018 00:00

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**140**	mg/l	5.0	0.32	1	3/7/2018 13:31	TD	n
Oxygen	**3.2**	mg/l	0.50	0.12	1	3/7/2018 13:31	TD	n
Nitrogen	**18**	mg/l	2.0	0.34	1	3/7/2018 13:31	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/7/2018 13:31	TD	n

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 25813 1802N75

DEFINITIONS/QUALIFIERS

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA

Workorder: 25813 1802N75

QC Batch: DISG/6697 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 258130001, 258130002, 258130003, 258130004, 258130005

METHOD BLANK: 54046

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Carbon Dioxide	mg/l	<5.0	5.0	n
Oxygen	mg/l	<0.50	0.50	n
Nitrogen	mg/l	<2.0	2.0	n
Carbon Monoxide	mg/l	<1.0	1.0	n

LABORATORY CONTROL SAMPLE & LCSD: 54047 54048

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Carbon Dioxide	mg/l	120	140	140	116	119	80-120	2.4	20	n
Oxygen	mg/l	11	10	10	88	87	80-120	1.2	20	n
Nitrogen	mg/l	140	120	120	90	88	80-120	1.4	20	n
Carbon Monoxide	mg/l	2	2.1	2.2	105	108	80-120	2.5	20	n

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 25813 1802N75

QUALITY CONTROL PARAMETER QUALIFIERS

n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

Pace Analytical Energy Services LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 25813 1802N75

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
258130001	MW-205D-20180226-01			AM20GAX	DISG/6697
258130002	MW-21-20180226-01			AM20GAX	DISG/6697
258130003	MW-14I-20180226-01			AM20GAX	DISG/6697
258130004	MW-14-20180226-01			AM20GAX	DISG/6697
258130005	DUP-5-20180226-01			AM20GAX	DISG/6697

1

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
AES
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

25813

CHAIN OF CUSTODY

Work Order: ______

Date: ______ Page ______ of ______

COMPANY: ↓
ADDRESS: ↓
PHONE:
EMAIL:
SAMPLED BY:
SIGNATURE:

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	ANALYSIS REQUESTED: O2, N2, CO, CO2												REMARKS	Number of Containers
							PRESERVATION (see codes)													
1	MW-20SD-20180226-01	2/26/18	11:45	X		GW	X													
2	MW-21-20180226-01	2/26/18	12:55	X		GW	X													
3	MW-14I-20180226-01	2/26/18	15:10	X		GW	X													
4	MW-14-20180226-01	2/26/18	15:45	X		GW	X													
5	DUP-5-20180226-01	2/26/18	-11-	X		GW	X													
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Andrena Stephens	2/27/18 5:00p	1. Kesi Pass	2.28.18 11:45
2.		2.	
3.		3.	

PROJECT INFORMATION
PROJECT NAME: 1802N75
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: MKARAKC@AESATLANTA.COM
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #: ______ PO#: ______

RECEIPT
Total # of Containers

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

STATE PROGRAM (if any): ______
E-mail? ☐ Fax? ☐
DATA PACKAGE: I ○ II ○ III ○ IV ○

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client FedEx UPS US mail courier Greyhound
other: ______

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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

Cooler Receipt Form

Client Name: AES Project: 1802N75 Lab Work Order: 25813

A. **Shipping/Container Information** (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other:_____ **Air bill Present:** (Yes) No

Tracking Number: 7249 3168 6734

Custody Seal on Cooler/Box Present: Yes (No) **Seals Intact:** Yes No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam Other:_____

Type of Ice: (Wet) Blue None **Ice Intact:** (Yes) Melted

Cooler Temperature: 1°C **Radiation Screened:** Yes (No) **Chain of Custody Present:** (Yes) No

Comments:_____

B. **Laboratory Assignment/Log-in** (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC			✓	
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected	✓			
Sufficient volume provided	✓			
PAES containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	
Headspace present?	✓			

Comments:_____

Cooler contents examined/received by : LY **Date:** 2.28.18

Project Manager Review: _____ **Date:** 2/28/18

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **ERM-Southeast** AES Work Order Number: **1802H80**

2. Carrier: FedEx ■ UPS ☐ USPS ☐ Client ☐ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	○	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	○	○		
5.	Custody seals intact on shipping container?	○	○	○		
6.	Temperature blanks present?	○	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	○	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	○	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	○	○	○		
10.	Sampler name and/or signature on COC?	○	○	○		
11.	Were all samples received within holding time?	○	○	○		
12.	TAT marked on the COC?	○	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 2.3 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). TD 2/20/18

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	○	○	○		
17.	Custody seals present on sample containers?	○	○	○		
18.	Custody seals intact on sample containers?	○	○	○		
19.	Do sample container labels match the COC?	○	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	○	○	○		
21.	Were all of the samples listed on the COC received?	○	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	○	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	○	○	○		
24.	Were samples received in appropriate containers?	○	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	○	○	○		
26.	Were trip blanks submitted?	○	○	○	listed on COC ■ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). MDP 2/20/18

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	○	○	○		
29.	Containers meet preservation guidelines?	○	○	○		
30.	Was pH adjusted at Sample Receipt?	○	○	○		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). MDP 2/20/18

Checklist 6.9.17 Rev 2

Locked

Analytical Environmental Services, Inc

Date: 16-Mar-18

Client: ERM-Southeast
Project Name: AGLC-Macon
Lab Order: 1802N75

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802N75-001A	MW-205D-20180226-01	2/26/2018 11:45:00AM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:33:00PM	03/02/2018
1802N75-001B	MW-205D-20180226-01	2/26/2018 11:45:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		3/2/2018 10:00:00AM	03/02/2018
1802N75-001B	MW-205D-20180226-01	2/26/2018 11:45:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		3/1/2018 8:00:00AM	03/01/2018
1802N75-001C	MW-205D-20180226-01	2/26/2018 11:45:00AM	Groundwater	GC Analysis of Gaseous Samples		2/28/2018 12:39:19PM	02/28/2018
1802N75-001E	MW-205D-20180226-01	2/26/2018 11:45:00AM	Groundwater	ION SCAN			02/27/2018
1802N75-001F	MW-205D-20180226-01	2/26/2018 11:45:00AM	Groundwater	Sulfide by SW9030/9034		3/2/2018 9:40:00AM	03/02/2018
1802N75-001G	MW-205D-20180226-01	2/26/2018 11:45:00AM	Groundwater	TOTAL METALS BY ICP		2/28/2018 6:30:00PM	03/02/2018
1802N75-001G	MW-205D-20180226-01	2/26/2018 11:45:00AM	Groundwater	TOTAL MERCURY		3/4/2018 2:13:00PM	03/04/2018
1802N75-001H	MW-205D-20180226-01	2/26/2018 11:45:00AM	Groundwater	Ferrous Iron			02/27/2018
1802N75-001I	MW-205D-20180226-01	2/26/2018 11:45:00AM	Groundwater	Cyanide		3/2/2018 9:05:00AM	03/02/2018
1802N75-002A	MW-21-20180226-01	2/26/2018 12:55:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:33:00PM	03/02/2018
1802N75-002B	MW-21-20180226-01	2/26/2018 12:55:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		3/2/2018 10:00:00AM	03/02/2018
1802N75-002B	MW-21-20180226-01	2/26/2018 12:55:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		3/1/2018 8:00:00AM	03/01/2018
1802N75-002C	MW-21-20180226-01	2/26/2018 12:55:00PM	Groundwater	GC Analysis of Gaseous Samples		2/28/2018 12:39:19PM	02/28/2018
1802N75-002E	MW-21-20180226-01	2/26/2018 12:55:00PM	Groundwater	ION SCAN			02/27/2018
1802N75-002F	MW-21-20180226-01	2/26/2018 12:55:00PM	Groundwater	Sulfide by SW9030/9034		3/2/2018 9:40:00AM	03/02/2018
1802N75-002G	MW-21-20180226-01	2/26/2018 12:55:00PM	Groundwater	TOTAL METALS BY ICP		2/28/2018 6:30:00PM	03/02/2018
1802N75-002G	MW-21-20180226-01	2/26/2018 12:55:00PM	Groundwater	TOTAL MERCURY		3/4/2018 2:13:00PM	03/04/2018
1802N75-002H	MW-21-20180226-01	2/26/2018 12:55:00PM	Groundwater	Ferrous Iron			02/27/2018
1802N75-002I	MW-21-20180226-01	2/26/2018 12:55:00PM	Groundwater	Cyanide		3/2/2018 9:05:00AM	03/02/2018
1802N75-003A	MW-14I-20180226-01	2/26/2018 3:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:33:00PM	03/02/2018
1802N75-003B	MW-14I-20180226-01	2/26/2018 3:10:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		3/2/2018 10:00:00AM	03/02/2018
1802N75-003B	MW-14I-20180226-01	2/26/2018 3:10:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		3/1/2018 8:00:00AM	03/01/2018
1802N75-003C	MW-14I-20180226-01	2/26/2018 3:10:00PM	Groundwater	GC Analysis of Gaseous Samples		2/28/2018 12:39:19PM	02/28/2018
1802N75-003E	MW-14I-20180226-01	2/26/2018 3:10:00PM	Groundwater	ION SCAN			02/27/2018
1802N75-003F	MW-14I-20180226-01	2/26/2018 3:10:00PM	Groundwater	Sulfide by SW9030/9034		3/2/2018 9:40:00AM	03/02/2018
1802N75-003G	MW-14I-20180226-01	2/26/2018 3:10:00PM	Groundwater	TOTAL METALS BY ICP		2/28/2018 6:30:00PM	03/02/2018
1802N75-003G	MW-14I-20180226-01	2/26/2018 3:10:00PM	Groundwater	TOTAL MERCURY		3/4/2018 2:13:00PM	03/04/2018
1802N75-003H	MW-14I-20180226-01	2/26/2018 3:10:00PM	Groundwater	Ferrous Iron			02/27/2018

Client: ERM-Southeast
Project Name: AGLC-Macon
Lab Order: 1802N75

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802N75-003I	MW-14I-20180226-01	2/26/2018 3:10:00PM	Groundwater	Cyanide		3/2/2018 9:05:00AM	03/02/2018
1802N75-004A	MW-14-20180226-01	2/26/2018 3:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:33:00PM	03/02/2018
1802N75-004B	MW-14-20180226-01	2/26/2018 3:45:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		3/2/2018 10:00:00AM	03/02/2018
1802N75-004B	MW-14-20180226-01	2/26/2018 3:45:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		3/1/2018 8:00:00AM	03/01/2018
1802N75-004C	MW-14-20180226-01	2/26/2018 3:45:00PM	Groundwater	GC Analysis of Gaseous Samples		2/28/2018 12:39:19PM	02/28/2018
1802N75-004E	MW-14-20180226-01	2/26/2018 3:45:00PM	Groundwater	ION SCAN			02/27/2018
1802N75-004F	MW-14-20180226-01	2/26/2018 3:45:00PM	Groundwater	Sulfide by SW9030/9034		3/2/2018 9:40:00AM	03/02/2018
1802N75-004G	MW-14-20180226-01	2/26/2018 3:45:00PM	Groundwater	TOTAL METALS BY ICP		2/28/2018 6:30:00PM	03/02/2018
1802N75-004G	MW-14-20180226-01	2/26/2018 3:45:00PM	Groundwater	TOTAL MERCURY		3/4/2018 2:13:00PM	03/04/2018
1802N75-004H	MW-14-20180226-01	2/26/2018 3:45:00PM	Groundwater	Ferrous Iron			02/27/2018
1802N75-004I	MW-14-20180226-01	2/26/2018 3:45:00PM	Groundwater	Cyanide		3/2/2018 9:05:00AM	03/02/2018
1802N75-005A	DUP-5-20180226-01	2/26/2018 12:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:33:00PM	03/02/2018
1802N75-005B	DUP-5-20180226-01	2/26/2018 12:00:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		3/2/2018 10:00:00AM	03/02/2018
1802N75-005B	DUP-5-20180226-01	2/26/2018 12:00:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		3/1/2018 8:00:00AM	03/01/2018
1802N75-005C	DUP-5-20180226-01	2/26/2018 12:00:00AM	Groundwater	GC Analysis of Gaseous Samples		2/28/2018 12:39:19PM	02/28/2018
1802N75-005E	DUP-5-20180226-01	2/26/2018 12:00:00AM	Groundwater	ION SCAN			02/27/2018
1802N75-005F	DUP-5-20180226-01	2/26/2018 12:00:00AM	Groundwater	Sulfide by SW9030/9034		3/2/2018 10:20:00AM	03/02/2018
1802N75-005G	DUP-5-20180226-01	2/26/2018 12:00:00AM	Groundwater	TOTAL METALS BY ICP		2/28/2018 6:30:00PM	03/02/2018
1802N75-005G	DUP-5-20180226-01	2/26/2018 12:00:00AM	Groundwater	TOTAL MERCURY		3/4/2018 2:13:00PM	03/04/2018
1802N75-005H	DUP-5-20180226-01	2/26/2018 12:00:00AM	Groundwater	Ferrous Iron			02/27/2018
1802N75-005I	DUP-5-20180226-01	2/26/2018 12:00:00AM	Groundwater	Cyanide		3/2/2018 9:05:00AM	03/02/2018
1802N75-006A	TB-1-20180226-01	2/26/2018 12:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:33:00PM	03/02/2018
1802N75-007A	TB-2-20180226-01	2/26/2018 12:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		2/27/2018 5:33:00PM	03/02/2018

Client: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802N75

ANALYTICAL QC SUMMARY REPORT

BatchID: 256513

Sample ID: **MB-256513** Client ID: Units: **mg/L** Prep Date: **02/28/2018** Run No: **364408**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010D** BatchID: **256513** Analysis Date: **03/02/2018** Seq No: **8055478**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	0.0200									
Arsenic	BRL	0.0500									
Barium	BRL	0.0200									
Beryllium	BRL	0.0100									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Copper	BRL	0.0100									
Iron	BRL	0.100									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Zinc	BRL	0.0200									

Sample ID: **LCS-256513** Client ID: Units: **mg/L** Prep Date: **02/28/2018** Run No: **364408**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010D** BatchID: **256513** Analysis Date: **03/02/2018** Seq No: **8055480**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	1.029	0.0200	1.000		103	80	120				
Arsenic	0.9938	0.0500	1.000		99.4	80	120				
Barium	0.9970	0.0200	1.000		99.7	80	120				
Beryllium	1.014	0.0100	1.000		101	80	120				
Cadmium	1.012	0.0050	1.000		101	80	120				
Chromium	0.9786	0.0100	1.000		97.9	80	120				
Copper	0.9987	0.0100	1.000		99.9	80	120				
Iron	9.777	0.100	10.00		97.8	80	120				
Lead	1.011	0.0100	1.000		101	80	120				
Nickel	1.003	0.0200	1.000		100	80	120				
Zinc	0.9881	0.0200	1.000		98.8	80	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802N75

ANALYTICAL QC SUMMARY REPORT

BatchID: 256513

Sample ID: **1802P02-001BMS** Client ID:
SampleType: **MS** TestCode: **METALS, TOTAL SW6010D**
Units: **mg/L** Prep Date: **02/28/2018** Run No: **364408**
BatchID: **256513** Analysis Date: **03/02/2018** Seq No: **8055482**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9586	0.0200	1.000	0.04252	91.6	75	125				
Arsenic	0.9584	0.0500	1.000		95.8	75	125				
Barium	0.7751	0.0200	1.000	0.01287	76.2	75	125				
Beryllium	0.7029	0.0100	1.000		70.3	75	125				S
Cadmium	0.9652	0.0050	1.000		96.5	75	125				
Chromium	0.7448	0.0100	1.000	0.002661	74.2	75	125				S
Copper	0.8865	0.0100	1.000	0.02182	86.5	75	125				
Iron	7.710	0.100	10.00	0.4501	72.6	75	125				S
Lead	0.6860	0.0100	1.000		68.6	75	125				S
Nickel	0.7103	0.0200	1.000	0.008710	70.2	75	125				S
Zinc	0.9237	0.0200	1.000	0.1272	79.7	75	125				

Sample ID: **1802P02-001BMSD** Client ID:
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010D**
Units: **mg/L** Prep Date: **02/28/2018** Run No: **364408**
BatchID: **256513** Analysis Date: **03/02/2018** Seq No: **8055483**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9707	0.0200	1.000	0.04252	92.8	75	125	0.9586	1.25	20	
Arsenic	0.9724	0.0500	1.000		97.2	75	125	0.9584	1.45	20	
Barium	0.7829	0.0200	1.000	0.01287	77.0	75	125	0.7751	0.995	20	
Beryllium	0.7117	0.0100	1.000		71.2	75	125	0.7029	1.24	20	S
Cadmium	0.9750	0.0050	1.000		97.5	75	125	0.9652	1.01	20	
Chromium	0.7539	0.0100	1.000	0.002661	75.1	75	125	0.7448	1.21	20	
Copper	0.9018	0.0100	1.000	0.02182	88.0	75	125	0.8865	1.71	20	
Iron	7.753	0.100	10.00	0.4501	73.0	75	125	7.710	0.558	20	S
Lead	0.6962	0.0100	1.000		69.6	75	125	0.6860	1.47	20	S
Nickel	0.7195	0.0200	1.000	0.008710	71.1	75	125	0.7103	1.28	20	S
Zinc	0.9311	0.0200	1.000	0.1272	80.4	75	125	0.9237	0.795	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802N75

ANALYTICAL QC SUMMARY REPORT

BatchID: 256557

Sample ID: **MB-256557** Client ID: Units: **ug/L** Prep Date: **02/27/2018** Run No: **364038**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256557** Analysis Date: **02/27/2018** Seq No: **8046381**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	5.0									
Carbon disulfide	BRL	5.0									
Ethylbenzene	BRL	5.0									
Toluene	BRL	5.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	45.91	0	50.00		91.8	68	127				
Surr: Dibromofluoromethane	50.81	0	50.00		102	84.4	122				
Surr: Toluene-d8	51.04	0	50.00		102	80.1	116				

Sample ID: **LCS-256557** Client ID: Units: **ug/L** Prep Date: **02/27/2018** Run No: **364038**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256557** Analysis Date: **02/27/2018** Seq No: **8046383**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	46.13	5.0	50.00		92.3	73.7	126				
Toluene	46.86	5.0	50.00		93.7	76.8	125				
Surr: 4-Bromofluorobenzene	45.07	0	50.00		90.1	68	127				
Surr: Dibromofluoromethane	52.00	0	50.00		104	84.4	122				
Surr: Toluene-d8	51.30	0	50.00		103	80.1	116				

Sample ID: **1802K33-001AMS** Client ID: Units: **ug/L** Prep Date: **02/27/2018** Run No: **364038**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256557** Analysis Date: **02/27/2018** Seq No: **8046386**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	47.73	5.0	50.00	0.9500	93.6	66.1	137				
Toluene	47.43	5.0	50.00	0.4300	94.0	63.8	141				
Surr: 4-Bromofluorobenzene	45.74	0	50.00		91.5	68	127				
Surr: Dibromofluoromethane	50.01	0	50.00		100	84.4	122				
Surr: Toluene-d8	50.42	0	50.00		101	80.1	116				

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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802N75

ANALYTICAL QC SUMMARY REPORT

BatchID: 256557

Sample ID: **1802K33-001AMSD** Client ID:
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **ug/L** Prep Date: **02/27/2018** Run No: **364038**
BatchID: **256557** Analysis Date: **02/27/2018** Seq No: **8046387**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	49.01	5.0	50.00	0.9500	96.1	66.1	137	47.73	2.65	20	
Toluene	49.63	5.0	50.00	0.4300	98.4	63.8	141	47.43	4.53	20	
Surr: 4-Bromofluorobenzene	45.45	0	50.00		90.9	68	127	45.74	0	0	
Surr: Dibromofluoromethane	51.83	0	50.00		104	84.4	122	50.01	0	0	
Surr: Toluene-d8	50.44	0	50.00		101	80.1	116	50.42	0	0	

Client: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802N75

ANALYTICAL QC SUMMARY REPORT

BatchID: 256594

Sample ID: **MB-256594**	Client ID:				Units: **ug/L**		Prep Date: **02/28/2018**		Run No: **364192**
SampleType: **MBLK**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256594**		Analysis Date: **02/28/2018**		Seq No: **8049257**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	BRL	4.0									

Sample ID: **LCS-256594**	Client ID:				Units: **ug/L**		Prep Date: **02/28/2018**		Run No: **364192**
SampleType: **LCS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256594**		Analysis Date: **02/28/2018**		Seq No: **8049258**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	124.8	4.0	200.0		62.4	45.1	115				

Sample ID: **LCSD-256594**	Client ID:				Units: **ug/L**		Prep Date: **02/28/2018**		Run No: **364192**
SampleType: **LCSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256594**		Analysis Date: **02/28/2018**		Seq No: **8049259**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	139.3	4.0	200.0		69.6	45.1	115	124.8	11.0	20	

Sample ID: **1802M15-006DMS**	Client ID:				Units: **ug/L**		Prep Date: **02/28/2018**		Run No: **364192**
SampleType: **MS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256594**		Analysis Date: **02/28/2018**		Seq No: **8049277**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	109.2	4.0	200.0		54.6	42	115				

Sample ID: **1802M15-006DMSD**	Client ID:				Units: **ug/L**		Prep Date: **02/28/2018**		Run No: **364192**
SampleType: **MSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **256594**		Analysis Date: **02/28/2018**		Seq No: **8049278**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	110.5	4.0	200.0		55.3	42	115	109.2	1.21	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802N75

ANALYTICAL QC SUMMARY REPORT

BatchID: 256628

Sample ID: **MB-256628** Client ID: Units: **ug/L** Prep Date: **03/01/2018** Run No: **364267**
SampleType: **MBLK** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256628** Analysis Date: **03/01/2018** Seq No: **8052681**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,4-Dimethylphenol	BRL	10									
2-Methylphenol	BRL	10									
3,4-Methylphenol	BRL	10									
Phenol	BRL	10									
Surr: 2,4,6-Tribromophenol	67.92	0	100.0		67.9	51.4	138				
Surr: 2-Fluorobiphenyl	37.46	0	50.00		74.9	44.6	119				
Surr: 2-Fluorophenol	44.65	0	100.0		44.6	27.2	120				
Surr: 4-Terphenyl-d14	45.46	0	50.00		90.9	47.1	136				
Surr: Nitrobenzene-d5	41.76	0	50.00		83.5	40.7	119				
Surr: Phenol-d5	30.89	0	100.0		30.9	18.1	120				

Sample ID: **LCS-256628** Client ID: Units: **ug/L** Prep Date: **03/01/2018** Run No: **364267**
SampleType: **LCS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256628** Analysis Date: **03/01/2018** Seq No: **8052682**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	34.79	10	100.0		34.8	26.4	120				
Surr: 2,4,6-Tribromophenol	76.12	0	100.0		76.1	51.4	138				
Surr: 2-Fluorobiphenyl	43.74	0	50.00		87.5	44.6	119				
Surr: 2-Fluorophenol	49.15	0	100.0		49.2	27.2	120				
Surr: 4-Terphenyl-d14	48.20	0	50.00		96.4	47.1	136				
Surr: Nitrobenzene-d5	46.97	0	50.00		93.9	40.7	119				
Surr: Phenol-d5	34.14	0	100.0		34.1	18.1	120				

Sample ID: **1802Q31-001BMS** Client ID: Units: **ug/L** Prep Date: **03/01/2018** Run No: **364267**
SampleType: **MS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256628** Analysis Date: **03/01/2018** Seq No: **8052684**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	51.69	10	100.0		51.7	31.5	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802N75

ANALYTICAL QC SUMMARY REPORT

BatchID: 256628

Sample ID: **1802Q31-001BMS** Client ID: Units: **ug/L** Prep Date: **03/01/2018** Run No: **364267**
SampleType: **MS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256628** Analysis Date: **03/01/2018** Seq No: **8052684**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 2,4,6-Tribromophenol	69.95	0	100.0		70.0	51.4	138				
Surr: 2-Fluorobiphenyl	39.79	0	50.00		79.6	44.6	119				
Surr: 2-Fluorophenol	60.63	0	100.0		60.6	27.2	120				
Surr: 4-Terphenyl-d14	45.50	0	50.00		91.0	47.1	136				
Surr: Nitrobenzene-d5	42.67	0	50.00		85.3	40.7	119				
Surr: Phenol-d5	52.99	0	100.0		53.0	18.1	120				

Sample ID: **1802Q31-001BMSD** Client ID: Units: **ug/L** Prep Date: **03/01/2018** Run No: **364267**
SampleType: **MSD** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256628** Analysis Date: **03/01/2018** Seq No: **8052685**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	48.42	10	100.0		48.4	31.5	120	51.69	6.53	28.5	
Surr: 2,4,6-Tribromophenol	71.00	0	100.0		71.0	51.4	138	69.95	0	0	
Surr: 2-Fluorobiphenyl	39.58	0	50.00		79.2	44.6	119	39.79	0	0	
Surr: 2-Fluorophenol	59.31	0	100.0		59.3	27.2	120	60.63	0	0	
Surr: 4-Terphenyl-d14	44.99	0	50.00		90.0	47.1	136	45.50	0	0	
Surr: Nitrobenzene-d5	40.24	0	50.00		80.5	40.7	119	42.67	0	0	
Surr: Phenol-d5	55.89	0	100.0		55.9	18.1	120	52.99	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802N75

ANALYTICAL QC SUMMARY REPORT

BatchID: 256683

Sample ID: **MB-256683**	Client ID:				Units: **mg/L**		Prep Date: **03/01/2018**		Run No: **364287**
SampleType: **MBLK**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **256683**		Analysis Date: **03/01/2018**		Seq No: **8051920**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	2.00									

Sample ID: **LCS-256683**	Client ID:				Units: **mg/L**		Prep Date: **03/01/2018**		Run No: **364287**
SampleType: **LCS**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **256683**		Analysis Date: **03/01/2018**		Seq No: **8051921**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	376.0	2.00	376.0		100	70	130				

Sample ID: **1802M18-006DMS**	Client ID:				Units: **mg/L**		Prep Date: **03/01/2018**		Run No: **364287**
SampleType: **MS**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **256683**		Analysis Date: **03/01/2018**		Seq No: **8051927**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	18.00	2.00	18.80		95.7	62.8	125				

Sample ID: **1802M18-006DMSD**	Client ID:				Units: **mg/L**		Prep Date: **03/01/2018**		Run No: **364287**
SampleType: **MSD**	TestCode: **Sulfide by SW9030B/9034**				BatchID: **256683**		Analysis Date: **03/01/2018**		Seq No: **8051928**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	16.60	2.00	18.80		88.3	62.8	125	18.00	8.09	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802N75

ANALYTICAL QC SUMMARY REPORT

BatchID: 256684

Sample ID: **MB-256684**	Client ID:				Units: **mg/L**		Prep Date: **03/01/2018**		Run No: **364266**
SampleType: **MBLK**	TestCode: **Cyanide SW9014**				BatchID: **256684**		Analysis Date: **03/01/2018**		Seq No: **8051264**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	BRL	0.010									

Sample ID: **LCS-256684**	Client ID:				Units: **mg/L**		Prep Date: **03/01/2018**		Run No: **364266**
SampleType: **LCS**	TestCode: **Cyanide SW9014**				BatchID: **256684**		Analysis Date: **03/01/2018**		Seq No: **8051265**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2240	0.010	0.2500		89.6	85	115				

Sample ID: **1802M18-007EMS**	Client ID:				Units: **mg/L**		Prep Date: **03/01/2018**		Run No: **364266**
SampleType: **MS**	TestCode: **Cyanide SW9014**				BatchID: **256684**		Analysis Date: **03/01/2018**		Seq No: **8051282**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2460	0.010	0.2500		98.4	70	130				

Sample ID: **1802M18-007EMSD**	Client ID:				Units: **mg/L**		Prep Date: **03/01/2018**		Run No: **364266**
SampleType: **MSD**	TestCode: **Cyanide SW9014**				BatchID: **256684**		Analysis Date: **03/01/2018**		Seq No: **8051286**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2440	0.010	0.2500		97.6	70	130	0.2460	0.816	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802N75

ANALYTICAL QC SUMMARY REPORT

BatchID: 256721

Sample ID: **MB-256721** Client ID: Units: **ug/L** Prep Date: **03/02/2018** Run No: **364379**
SampleType: **MBLK** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256721** Analysis Date: **03/02/2018** Seq No: **8054635**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	BRL	0.50									
Acenaphthylene	BRL	1.0									
Anthracene	BRL	0.050									
Benz(a)anthracene	BRL	0.050									
Benzo(a)pyrene	BRL	0.050									
Benzo(b)fluoranthene	BRL	0.10									
Benzo(g,h,i)perylene	BRL	0.10									
Benzo(k)fluoranthene	BRL	0.050									
Chrysene	BRL	0.050									
Dibenz(a,h)anthracene	BRL	0.10									
Fluoranthene	BRL	0.10									
Fluorene	BRL	0.10									
Indeno(1,2,3-cd)pyrene	BRL	0.050									
Naphthalene	BRL	0.50									
Phenanthrene	BRL	0.050									
Pyrene	BRL	0.050									
Surr: 4-Terphenyl-d14	2.326	0	2.000		116	59.9	128				

Sample ID: **LCS-256721** Client ID: Units: **ug/L** Prep Date: **03/02/2018** Run No: **364379**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256721** Analysis Date: **03/02/2018** Seq No: **8054636**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.815	0.50	2.000		90.8	64.7	120				
Acenaphthylene	1.765	1.0	2.000		88.2	63.2	120				
Anthracene	1.734	0.050	2.000		86.7	69.3	125				
Benz(a)anthracene	1.794	0.050	2.000		89.7	71.1	141				
Benzo(a)pyrene	1.803	0.050	2.000		90.1	67.2	131				
Benzo(b)fluoranthene	1.694	0.10	2.000		84.7	66.1	134				

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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802N75

ANALYTICAL QC SUMMARY REPORT

BatchID: 256721

Sample ID: **LCS-256721** Client ID: Units: **ug/L** Prep Date: **03/02/2018** Run No: **364379**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256721** Analysis Date: **03/02/2018** Seq No: **8054636**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(g,h,i)perylene	1.698	0.10	2.000		84.9	66.1	128				
Benzo(k)fluoranthene	2.089	0.050	2.000		104	67.7	133				
Chrysene	2.224	0.050	2.000		111	71.3	137				
Dibenz(a,h)anthracene	1.490	0.10	2.000		74.5	59.7	125				
Fluoranthene	1.861	0.10	2.000		93.0	72.3	129				
Fluorene	1.772	0.10	2.000		88.6	69.2	120				
Indeno(1,2,3-cd)pyrene	1.586	0.050	2.000		79.3	66.4	127				
Naphthalene	1.794	0.50	2.000		89.7	56.8	120				
Phenanthrene	1.725	0.050	2.000		86.3	70.9	120				
Pyrene	2.142	0.050	2.000		107	68.4	138				
Surr: 4-Terphenyl-d14	2.278	0	2.000		114	59.9	128				

Sample ID: **LCSD-256721** Client ID: Units: **ug/L** Prep Date: **03/02/2018** Run No: **364379**
SampleType: **LCSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256721** Analysis Date: **03/02/2018** Seq No: **8054637**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.845	0.50	2.000		92.2	64.7	120	1.815	1.63	20	
Acenaphthylene	1.756	1.0	2.000		87.8	63.2	120	1.765	0.493	18.4	
Anthracene	1.730	0.050	2.000		86.5	69.3	125	1.734	0.224	20.5	
Benz(a)anthracene	1.741	0.050	2.000		87.1	71.1	141	1.794	2.99	18	
Benzo(a)pyrene	1.769	0.050	2.000		88.4	67.2	131	1.803	1.90	33.5	
Benzo(b)fluoranthene	1.679	0.10	2.000		83.9	66.1	134	1.694	0.935	18.4	
Benzo(g,h,i)perylene	1.751	0.10	2.000		87.6	66.1	128	1.698	3.07	21.8	
Benzo(k)fluoranthene	2.109	0.050	2.000		105	67.7	133	2.089	0.945	20	
Chrysene	2.274	0.050	2.000		114	71.3	137	2.224	2.20	18.4	
Dibenz(a,h)anthracene	1.408	0.10	2.000		70.4	59.7	125	1.490	5.66	20.6	
Fluoranthene	1.834	0.10	2.000		91.7	72.3	129	1.861	1.43	26.9	
Fluorene	1.758	0.10	2.000		87.9	69.2	120	1.772	0.805	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802N75

ANALYTICAL QC SUMMARY REPORT

BatchID: 256721

Sample ID: **LCSD-256721** Client ID:
SampleType: **LCSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D**
Units: **ug/L** Prep Date: **03/02/2018** Run No: **364379**
BatchID: **256721** Analysis Date: **03/02/2018** Seq No: **8054637**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Indeno(1,2,3-cd)pyrene	1.613	0.050	2.000		80.6	66.4	127	1.586	1.71	20.4	
Naphthalene	1.724	0.50	2.000		86.2	56.8	120	1.794	4.01	21	
Phenanthrene	1.690	0.050	2.000		84.5	70.9	120	1.725	2.05	20	
Pyrene	2.150	0.050	2.000		107	68.4	138	2.142	0.372	19	
Surr: 4-Terphenyl-d14	2.776	0	2.000		139	59.9	128	2.278	0	0	S

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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802N75

ANALYTICAL QC SUMMARY REPORT

BatchID: 256775

Sample ID: **MB-256775**	Client ID:				Units: **mg/L**		Prep Date: **03/04/2018**		Run No: **364430**
SampleType: **MBLK**	TestCode: **Mercury, Total SW7470A**				BatchID: **256775**		Analysis Date: **03/04/2018**		Seq No: **8056205**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020									

Sample ID: **LCS-256775**	Client ID:				Units: **mg/L**		Prep Date: **03/04/2018**		Run No: **364430**
SampleType: **LCS**	TestCode: **Mercury, Total SW7470A**				BatchID: **256775**		Analysis Date: **03/04/2018**		Seq No: **8056206**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004076	0.00020	0.0040		102	80	120				

Sample ID: **1802M41-001GMS**	Client ID:				Units: **mg/L**		Prep Date: **03/04/2018**		Run No: **364430**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**				BatchID: **256775**		Analysis Date: **03/04/2018**		Seq No: **8056208**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004079	0.00020	0.0040		102	70	130				

Sample ID: **1802M41-002GMS**	Client ID:				Units: **mg/L**		Prep Date: **03/04/2018**		Run No: **364430**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**				BatchID: **256775**		Analysis Date: **03/04/2018**		Seq No: **8056213**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004078	0.00020	0.0040		102	70	130				

Sample ID: **1802M41-001GMSD**	Client ID:				Units: **mg/L**		Prep Date: **03/04/2018**		Run No: **364430**
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**				BatchID: **256775**		Analysis Date: **03/04/2018**		Seq No: **8056211**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004098	0.00020	0.0040		102	70	130	0.004079	0.453	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802N75

ANALYTICAL QC SUMMARY REPORT

BatchID: R364001

Sample ID: **MB-R364001**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **364001**	
SampleType: **MBLK**	TestCode: **Ferrous Iron**					BatchID: **R364001**		Analysis Date: **02/27/2018**		Seq No: **8044638**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R364001**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **364001**	
SampleType: **LCS**	TestCode: **Ferrous Iron**					BatchID: **R364001**		Analysis Date: **02/27/2018**		Seq No: **8044639**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5110	0.100	0.5000		102	85	115				

Sample ID: **1802N75-001HMS**	Client ID: **MW-205D-20180226-01**					Units: **mg/L**		Prep Date:		Run No: **364001**	
SampleType: **MS**	TestCode: **Ferrous Iron**					BatchID: **R364001**		Analysis Date: **02/27/2018**		Seq No: **8044645**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	4.115	0.500	2.500	1.270	114	80	120				

Sample ID: **1802N75-001HMSD**	Client ID: **MW-205D-20180226-01**					Units: **mg/L**		Prep Date:		Run No: **364001**	
SampleType: **MSD**	TestCode: **Ferrous Iron**					BatchID: **R364001**		Analysis Date: **02/27/2018**		Seq No: **8044646**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	4.075	0.500	2.500	1.270	112	80	120	4.115	0.977	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802N75

ANALYTICAL QC SUMMARY REPORT

BatchID: R364092

Sample ID: **MB-R364092**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **364092**
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**			BatchID: **R364092**	Analysis Date: **02/27/2018**		Seq No: **8046985**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R364092**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **364092**
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**			BatchID: **R364092**	Analysis Date: **02/27/2018**		Seq No: **8046983**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.935	0.25	5.000		98.7	90	110				
Sulfate	24.86	1.0	25.00		99.4	90	110				

Sample ID: **1802N75-002EMS**	Client ID: **MW-21-20180226-01**			Units: **mg/L**	Prep Date:		Run No: **364092**
SampleType: **MS**	TestCode: **ION SCAN SW9056A**			BatchID: **R364092**	Analysis Date: **02/27/2018**		Seq No: **8047027**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.459	0.25	5.000		109	90	110				
Sulfate	39.73	1.0	25.00	15.70	96.1	90	110				

Sample ID: **1802N75-004EMS**	Client ID: **MW-14-20180226-01**			Units: **mg/L**	Prep Date:		Run No: **364092**
SampleType: **MS**	TestCode: **ION SCAN SW9056A**			BatchID: **R364092**	Analysis Date: **02/27/2018**		Seq No: **8047030**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.546	0.25	5.000	0.2093	107	90	110				
Sulfate	42.66	1.0	25.00	17.91	99.0	90	110				

Sample ID: **1802N75-004EMSD**	Client ID: **MW-14-20180226-01**			Units: **mg/L**	Prep Date:		Run No: **364092**
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**			BatchID: **R364092**	Analysis Date: **02/27/2018**		Seq No: **8047033**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.524	0.25	5.000	0.2093	106	90	110	5.546	0.396	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802N75

ANALYTICAL QC SUMMARY REPORT

BatchID: R364092

Sample ID: **1802N75-004EMSD** Client ID: **MW-14-20180226-01** Units: **mg/L** Prep Date: Run No: **364092**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R364092** Analysis Date: **02/27/2018** Seq No: **8047033**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	41.56	1.0	25.00	17.91	94.6	90	110	42.66	2.61	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.

March 19, 2018

Adria Reimer
ERM-Southeast
3200 Windy Hill Rd
Atlanta GA 30339

RE: AGLC-Macon

Dear Adria Reimer: Order No: 1802O80

Analytical Environmental Services, Inc. received 5 samples on February 27, 2018 4:01 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's accreditations are as follows:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.
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.

Sincerely,

Mirzeta Kararic

Mirzeta Kararic
Project Manager

Revision 3/19/2018

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

AES

CHAIN OF CUSTODY

Work Order: 1802080

Date: 2-27-18 Page 1 of 1

COMPANY: ERM

ADDRESS: 3200 Windy Hill Rd. Suite 1500W Atlanta Georgia 30339

PHONE: 678 486 2700

EMAIL: Adria.Reimer@erm.com

SAMPLED BY: Markesias Thomas / Hannah Baugh

SIGNATURE: [signature]

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

ANALYSIS REQUESTED / PRESERVATION (see codes):

#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)	SVOC's (I)	VOC's (H+I)	Methane (H+I)	Diss. Gases (B+K)	Nitrate/Sulfate (I)	Sulfide (ZnAc)	Total Metals/Hg (N+I)	Ferrous Fe (I)	Total Cyanide (NaOH)				REMARKS	Number of Containers
1	MW-101-20180227-01	2-27-18	1100	✓		GW	✓	✓	✓	✓	✓	✓	✓	✓	✓					13
2	MW-305D-20180227-01	2-27-18	1225	✓		GW	✓	✓	✓	✓	✓	✓	✓	✓	✓					13
3	DUP-6-20180227-01	2-27-18	— —	✓		GW	✓	✓	✓	✓	✓	✓	✓	✓	✓					13
4	TB-1-20180227-01	— —	— —	✓		W		✓												2
5	TB-2-20180227-01	— —	— —	✓		W		✓												2
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. [signature]	2-27-18 1601	1. [signature]	2/27/18 4:01p
2.		2.	
3.		3.	

PROJECT INFORMATION

PROJECT NAME: AGL - Macon

PROJECT #: 0366660

SITE ADDRESS: 137 Mulberry Street Macon Georgia

SEND REPORT TO: Adria.Reimer@erm.com

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers: 43

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

STATE PROGRAM (if any): GA

E-mail? [x] Fax? [ ]

DATA PACKAGE: I ○ II ○ III ○ IV ○

SPECIAL INSTRUCTIONS/COMMENTS: *24 hr hold*

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
(client) FedEx UPS US mail courier Greyhound
other: ____________

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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

Client: ERM-Southeast
Project: AGLC-Macon
Lab ID: 1802O80

Case Narrative

Ion Scan Analysis by Method 9056A:

Due to sample matrix, sample 1802O80-002E required dilution during preparation and/or analysis resulting in elevated reporting limits.

PAH Analysis by Method 8270D SIM:

Percent recovery for the surrogate spiking compound 4-Terphenyl-d14 on sample LCSD-256721 was outside control limits biased high.

Matrix spike and matrix spike duplicate analyses were not performed with Batch 256721 due to insufficient sample volume.

Ferrous Iron by SM3500Fe-B:

Method 3500Fe-B as listed in Standard Methods for the Examination of Water and Wastewater 22nd Edition is applicable for analyzing Ferrous Iron in the field. Samples were analyzed in the laboratory which is a deviation from the method.

Analytical Environmental Services, Inc **Date:** 19-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-101-20180227-01
Project Name:	AGLC-Macon	**Collection Date:**	2/27/2018 11:00:00 AM
Lab ID:	1802O80-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256811	1	03/03/2018 20:45	NP
Carbon disulfide	BRL	5.0		ug/L	256811	1	03/03/2018 20:45	NP
Ethylbenzene	BRL	5.0		ug/L	256811	1	03/03/2018 20:45	NP
Toluene	BRL	5.0		ug/L	256811	1	03/03/2018 20:45	NP
Xylenes, Total	BRL	5.0		ug/L	256811	1	03/03/2018 20:45	NP
Surr: 4-Bromofluorobenzene	85.8	68-127		%REC	256811	1	03/03/2018 20:45	NP
Surr: Dibromofluoromethane	109	84.4-122		%REC	256811	1	03/03/2018 20:45	NP
Surr: Toluene-d8	102	80.1-116		%REC	256811	1	03/03/2018 20:45	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256812	1	03/05/2018 10:45	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	3.6	0.50		ug/L	256721	1	03/02/2018 18:48	YH
Acenaphthylene	BRL	1.0		ug/L	256721	1	03/02/2018 18:48	YH
Acenaphthene	0.99	0.50		ug/L	256721	1	03/02/2018 18:48	YH
Fluorene	0.74	0.10		ug/L	256721	1	03/02/2018 18:48	YH
Phenanthrene	0.13	0.050		ug/L	256721	1	03/02/2018 18:48	YH
Anthracene	0.059	0.050		ug/L	256721	1	03/02/2018 18:48	YH
Fluoranthene	0.16	0.10		ug/L	256721	1	03/02/2018 18:48	YH
Pyrene	0.15	0.050		ug/L	256721	1	03/02/2018 18:48	YH
Benz(a)anthracene	BRL	0.050		ug/L	256721	1	03/02/2018 18:48	YH
Chrysene	BRL	0.050		ug/L	256721	1	03/02/2018 18:48	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256721	1	03/02/2018 18:48	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256721	1	03/02/2018 18:48	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256721	1	03/02/2018 18:48	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256721	1	03/02/2018 18:48	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256721	1	03/02/2018 18:48	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256721	1	03/02/2018 18:48	YH
Surr: 4-Terphenyl-d14	96.2	59.9-128		%REC	256721	1	03/02/2018 18:48	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256628	1	03/01/2018 17:38	YH
2-Methylphenol	BRL	10		ug/L	256628	1	03/01/2018 17:38	YH
3,4-Methylphenol	BRL	10		ug/L	256628	1	03/01/2018 17:38	YH
Phenol	BRL	10		ug/L	256628	1	03/01/2018 17:38	YH
Surr: 2,4,6-Tribromophenol	81.8	51.4-138		%REC	256628	1	03/01/2018 17:38	YH
Surr: 2-Fluorobiphenyl	81.9	44.6-119		%REC	256628	1	03/01/2018 17:38	YH
Surr: 2-Fluorophenol	65.8	27.2-120		%REC	256628	1	03/01/2018 17:38	YH
Surr: 4-Terphenyl-d14	94.1	47.1-136		%REC	256628	1	03/01/2018 17:38	YH
Surr: Nitrobenzene-d5	71.5	40.7-119		%REC	256628	1	03/01/2018 17:38	YH

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:** 19-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-101-20180227-01
Project Name:	AGLC-Macon	**Collection Date:**	2/27/2018 11:00:00 AM
Lab ID:	1802O80-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: Phenol-d5	55.1	18.1-120		%REC	256628	1	03/01/2018 17:38	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256808	1	03/05/2018 23:44	AJ
ION SCAN SW9056A								
Nitrate	3.8	0.25		mg/L	R364214	1	02/28/2018 12:06	MP
Sulfate	120	2.0		mg/L	R364214	2	02/28/2018 12:56	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	5.0	4.0		ug/L	256843	1	03/05/2018 14:32	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	0.309	0.100		mg/L	R364001	1	02/27/2018 18:00	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	0.019	0.010		mg/L	256828	1	03/05/2018 13:30	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256513	1	03/02/2018 15:35	IO
Arsenic	BRL	0.0500		mg/L	256513	1	03/02/2018 15:35	IO
Barium	0.0559	0.0200		mg/L	256513	1	03/02/2018 15:35	IO
Beryllium	BRL	0.0100		mg/L	256513	1	03/02/2018 15:35	IO
Cadmium	BRL	0.0050		mg/L	256513	1	03/02/2018 15:35	IO
Chromium	BRL	0.0100		mg/L	256513	1	03/02/2018 15:35	IO
Copper	BRL	0.0100		mg/L	256513	1	03/02/2018 15:35	IO
Iron	0.804	0.100		mg/L	256513	1	03/02/2018 15:35	IO
Lead	BRL	0.0100		mg/L	256513	1	03/02/2018 15:35	IO
Nickel	BRL	0.0200		mg/L	256513	1	03/02/2018 15:35	IO
Zinc	BRL	0.0200		mg/L	256513	1	03/02/2018 15:35	IO

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:** 19-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-305D-20180227-01
Project Name:	AGLC-Macon	**Collection Date:**	2/27/2018 12:25:00 PM
Lab ID:	1802O80-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	3500	100		ug/L	256811	20	03/05/2018 17:42	NP
Carbon disulfide	BRL	5.0		ug/L	256811	1	03/05/2018 17:18	NP
Ethylbenzene	94	5.0		ug/L	256811	1	03/05/2018 17:18	NP
Toluene	1600	100		ug/L	256811	20	03/05/2018 17:42	NP
Xylenes, Total	380	5.0		ug/L	256811	1	03/05/2018 17:18	NP
Surr: 4-Bromofluorobenzene	95.8	68-127		%REC	256811	1	03/05/2018 17:18	NP
Surr: 4-Bromofluorobenzene	89.4	68-127		%REC	256811	20	03/05/2018 17:42	NP
Surr: Dibromofluoromethane	101	84.4-122		%REC	256811	20	03/05/2018 17:42	NP
Surr: Dibromofluoromethane	93	84.4-122		%REC	256811	1	03/05/2018 17:18	NP
Surr: Toluene-d8	95.2	80.1-116		%REC	256811	1	03/05/2018 17:18	NP
Surr: Toluene-d8	95.9	80.1-116		%REC	256811	20	03/05/2018 17:42	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256812	1	03/05/2018 10:45	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	3000	500		ug/L	256721	1000	03/05/2018 19:56	YH
Acenaphthylene	59	50		ug/L	256721	100	03/05/2018 19:29	YH
Acenaphthene	5.5	0.50		ug/L	256721	1	03/02/2018 19:13	YH
Fluorene	12	10		ug/L	256721	100	03/05/2018 19:29	YH
Phenanthrene	14	5.0		ug/L	256721	100	03/05/2018 19:29	YH
Anthracene	1.6	0.050		ug/L	256721	1	03/02/2018 19:13	YH
Fluoranthene	1.2	0.10		ug/L	256721	1	03/02/2018 19:13	YH
Pyrene	1.8	0.050		ug/L	256721	1	03/02/2018 19:13	YH
Benz(a)anthracene	0.11	0.050		ug/L	256721	1	03/02/2018 19:13	YH
Chrysene	0.12	0.050		ug/L	256721	1	03/02/2018 19:13	YH
Benzo(b)fluoranthene	0.12	0.10		ug/L	256721	1	03/02/2018 19:13	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256721	1	03/02/2018 19:13	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256721	1	03/02/2018 19:13	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256721	1	03/02/2018 19:13	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256721	1	03/02/2018 19:13	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256721	1	03/02/2018 19:13	YH
Surr: 4-Terphenyl-d14	91.4	59.9-128		%REC	256721	1	03/02/2018 19:13	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256628	1	03/01/2018 18:04	YH
2-Methylphenol	BRL	10		ug/L	256628	1	03/01/2018 18:04	YH
3,4-Methylphenol	BRL	10		ug/L	256628	1	03/01/2018 18:04	YH
Phenol	36	10		ug/L	256628	1	03/01/2018 18:04	YH
Surr: 2,4,6-Tribromophenol	83.2	51.4-138		%REC	256628	1	03/01/2018 18:04	YH
Surr: 2-Fluorobiphenyl	81.4	44.6-119		%REC	256628	1	03/01/2018 18:04	YH

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:** 19-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	MW-305D-20180227-01
Project Name:	AGLC-Macon	**Collection Date:**	2/27/2018 12:25:00 PM
Lab ID:	1802O80-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
Surr: 2-Fluorophenol	63	27.2-120		%REC	256628	1	03/01/2018 18:04	YH
Surr: 4-Terphenyl-d14	93.2	47.1-136		%REC	256628	1	03/01/2018 18:04	YH
Surr: Nitrobenzene-d5	173	40.7-119	S	%REC	256628	1	03/01/2018 18:04	YH
Surr: Phenol-d5	54.9	18.1-120		%REC	256628	1	03/01/2018 18:04	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	256808	1	03/05/2018 23:56	AJ
ION SCAN SW9056A								
Nitrate	BRL	5.0		mg/L	R364214	20	02/28/2018 12:21	MP
Sulfate	BRL	20		mg/L	R364214	20	02/28/2018 12:21	MP
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	7.0	4.0		ug/L	256843	1	03/05/2018 14:38	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R364001	1	02/27/2018 18:00	LM
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	256828	1	03/06/2018 10:45	AK
METALS, TOTAL SW6010D				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	256513	1	03/02/2018 15:39	IO
Arsenic	BRL	0.0500		mg/L	256513	1	03/02/2018 15:39	IO
Barium	0.310	0.0200		mg/L	256513	1	03/02/2018 15:39	IO
Beryllium	BRL	0.0100		mg/L	256513	1	03/02/2018 15:39	IO
Cadmium	BRL	0.0050		mg/L	256513	1	03/02/2018 15:39	IO
Chromium	0.0113	0.0100		mg/L	256513	1	03/02/2018 15:39	IO
Copper	0.0137	0.0100		mg/L	256513	1	03/02/2018 15:39	IO
Iron	BRL	0.100		mg/L	256513	1	03/02/2018 15:39	IO
Lead	BRL	0.0100		mg/L	256513	1	03/02/2018 15:39	IO
Nickel	BRL	0.0200		mg/L	256513	1	03/02/2018 15:39	IO
Zinc	BRL	0.0200		mg/L	256513	1	03/02/2018 15:39	IO

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:** 19-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	DUP-6-20180227-01
Project Name:	AGLC-Macon	**Collection Date:**	2/27/2018
Lab ID:	1802O80-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Benzene	BRL	5.0		ug/L	256811	1	03/03/2018 21:09	NP
Carbon disulfide	BRL	5.0		ug/L	256811	1	03/03/2018 21:09	NP
Ethylbenzene	BRL	5.0		ug/L	256811	1	03/03/2018 21:09	NP
Toluene	BRL	5.0		ug/L	256811	1	03/03/2018 21:09	NP
Xylenes, Total	BRL	5.0		ug/L	256811	1	03/03/2018 21:09	NP
Surr: 4-Bromofluorobenzene	85.5	68-127		%REC	256811	1	03/03/2018 21:09	NP
Surr: Dibromofluoromethane	105	84.4-122		%REC	256811	1	03/03/2018 21:09	NP
Surr: Toluene-d8	102	80.1-116		%REC	256811	1	03/03/2018 21:09	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	256812	1	03/05/2018 10:45	AK
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	3.1	0.50		ug/L	256721	1	03/02/2018 19:38	YH
Acenaphthylene	BRL	1.0		ug/L	256721	1	03/02/2018 19:38	YH
Acenaphthene	0.81	0.50		ug/L	256721	1	03/02/2018 19:38	YH
Fluorene	0.61	0.10		ug/L	256721	1	03/02/2018 19:38	YH
Phenanthrene	0.12	0.050		ug/L	256721	1	03/02/2018 19:38	YH
Anthracene	0.053	0.050		ug/L	256721	1	03/02/2018 19:38	YH
Fluoranthene	0.14	0.10		ug/L	256721	1	03/02/2018 19:38	YH
Pyrene	0.12	0.050		ug/L	256721	1	03/02/2018 19:38	YH
Benz(a)anthracene	BRL	0.050		ug/L	256721	1	03/02/2018 19:38	YH
Chrysene	BRL	0.050		ug/L	256721	1	03/02/2018 19:38	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	256721	1	03/02/2018 19:38	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	256721	1	03/02/2018 19:38	YH
Benzo(a)pyrene	BRL	0.050		ug/L	256721	1	03/02/2018 19:38	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	256721	1	03/02/2018 19:38	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	256721	1	03/02/2018 19:38	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	256721	1	03/02/2018 19:38	YH
Surr: 4-Terphenyl-d14	97	59.9-128		%REC	256721	1	03/02/2018 19:38	YH
Semivolatile Org. Comp. by GC/MS SW8270D				**(SW3510C)**				
2,4-Dimethylphenol	BRL	10		ug/L	256628	1	03/01/2018 18:29	YH
2-Methylphenol	BRL	10		ug/L	256628	1	03/01/2018 18:29	YH
3,4-Methylphenol	BRL	10		ug/L	256628	1	03/01/2018 18:29	YH
Phenol	BRL	10		ug/L	256628	1	03/01/2018 18:29	YH
Surr: 2,4,6-Tribromophenol	86.8	51.4-138		%REC	256628	1	03/01/2018 18:29	YH
Surr: 2-Fluorobiphenyl	89.9	44.6-119		%REC	256628	1	03/01/2018 18:29	YH
Surr: 2-Fluorophenol	77.4	27.2-120		%REC	256628	1	03/01/2018 18:29	YH
Surr: 4-Terphenyl-d14	101	47.1-136		%REC	256628	1	03/01/2018 18:29	YH
Surr: Nitrobenzene-d5	83.7	40.7-119		%REC	256628	1	03/01/2018 18:29	YH

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:** 19-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	DUP-6-20180227-01
Project Name:	AGLC-Macon	**Collection Date:**	2/27/2018
Lab ID:	1802O80-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Semivolatile Org. Comp. by GC/MS SW8270D					**(SW3510C)**			
Surr: Phenol-d5	60	18.1-120		%REC	256628	1	03/01/2018 18:29	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	256808	1	03/06/2018 00:01	AJ
ION SCAN SW9056A								
Nitrate	3.8	0.25		mg/L	R364214	1	02/28/2018 12:35	MP
Sulfate	110	2.0		mg/L	R364214	2	02/28/2018 13:11	MP
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**			
Methane	4.8	4.0		ug/L	256843	1	03/05/2018 14:47	UH
Ferrous Iron								
Iron, as Ferrous (Fe+2)	0.309	0.100		mg/L	R364001	1	02/27/2018 18:00	LM
Cyanide SW9014					**(SW9010C)**			
Cyanide, Total	0.014	0.010		mg/L	256828	1	03/06/2018 10:45	AK
METALS, TOTAL SW6010D					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	256513	1	03/02/2018 15:43	IO
Arsenic	BRL	0.0500		mg/L	256513	1	03/02/2018 15:43	IO
Barium	0.0564	0.0200		mg/L	256513	1	03/02/2018 15:43	IO
Beryllium	BRL	0.0100		mg/L	256513	1	03/02/2018 15:43	IO
Cadmium	BRL	0.0050		mg/L	256513	1	03/02/2018 15:43	IO
Chromium	BRL	0.0100		mg/L	256513	1	03/02/2018 15:43	IO
Copper	BRL	0.0100		mg/L	256513	1	03/02/2018 15:43	IO
Iron	0.830	0.100		mg/L	256513	1	03/02/2018 15:43	IO
Lead	BRL	0.0100		mg/L	256513	1	03/02/2018 15:43	IO
Nickel	BRL	0.0200		mg/L	256513	1	03/02/2018 15:43	IO
Zinc	BRL	0.0200		mg/L	256513	1	03/02/2018 15:43	IO

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:** 19-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-1-20180227-01
Project Name:	AGLC-Macon	**Collection Date:**	2/27/2018
Lab ID:	1802O80-004	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256811	1	03/03/2018 12:42	NP
Carbon disulfide	BRL	5.0		ug/L	256811	1	03/03/2018 12:42	NP
Ethylbenzene	BRL	5.0		ug/L	256811	1	03/03/2018 12:42	NP
Toluene	BRL	5.0		ug/L	256811	1	03/03/2018 12:42	NP
Xylenes, Total	BRL	5.0		ug/L	256811	1	03/03/2018 12:42	NP
Surr: 4-Bromofluorobenzene	85	68-127		%REC	256811	1	03/03/2018 12:42	NP
Surr: Dibromofluoromethane	108	84.4-122		%REC	256811	1	03/03/2018 12:42	NP
Surr: Toluene-d8	102	80.1-116		%REC	256811	1	03/03/2018 12:42	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:** 19-Mar-18

Client:	ERM-Southeast	**Client Sample ID:**	TB-2-20180227-01
Project Name:	AGLC-Macon	**Collection Date:**	2/27/2018
Lab ID:	1802O80-005	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Benzene	BRL	5.0		ug/L	256811	1	03/03/2018 13:06	NP
Carbon disulfide	BRL	5.0		ug/L	256811	1	03/03/2018 13:06	NP
Ethylbenzene	BRL	5.0		ug/L	256811	1	03/03/2018 13:06	NP
Toluene	BRL	5.0		ug/L	256811	1	03/03/2018 13:06	NP
Xylenes, Total	BRL	5.0		ug/L	256811	1	03/03/2018 13:06	NP
Surr: 4-Bromofluorobenzene	84.5	68-127		%REC	256811	1	03/03/2018 13:06	NP
Surr: Dibromofluoromethane	105	84.4-122		%REC	256811	1	03/03/2018 13:06	NP
Surr: Toluene-d8	102	80.1-116		%REC	256811	1	03/03/2018 13:06	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

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

March 12, 2018

Mirzeta Kararic
Analytical Environmental Services, Inc.
3785 Presidential Parkway
Suite 111
Atlanta, GA 30340

RE: **1802O80**

Pace Workorder: 25850

Dear Mirzeta Kararic:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, March 02, 2018. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Ruth Welsh 03/12/2018
Ruth.Welsh@pacelabs.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email PAESfeedback@pacelabs.com.

Total Number of Pages 12

CERTIFICATE OF ANALYSIS

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water
Accreditor:	West Virginia Department of Environmental Protection, Division of Water and Waste Management
Accreditation ID:	395
Scope:	Non-Potable Water
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	State of Virginia
Accreditation ID:	460201
Scope:	Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

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SAMPLE SUMMARY

Workorder: 25850 1802O80

Lab ID	Sample ID	Matrix	Date Collected	Date Received
258500001	MW-101-20180227-01	Water	2/27/2018 11:00	3/2/2018 11:30
258500002	MW-305D-20180227-01	Water	2/27/2018 12:25	3/2/2018 11:30
258500003	DUP-6-20180227-01	Water	2/27/2018 00:00	3/2/2018 11:30

Pace Analytical Energy Services LLC
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ANALYTICAL RESULTS

Workorder: 25850 1802O80

Lab ID: **258500001** Date Received: 3/2/2018 11:30 Matrix: Water

Sample ID: **MW-101-20180227-01** Date Collected: 2/27/2018 11:00

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**66**	mg/l	5.0	0.32	1	3/7/2018 08:40	TD	n
Oxygen	**2.6**	mg/l	0.50	0.12	1	3/7/2018 08:40	TD	n
Nitrogen	**18**	mg/l	2.0	0.34	1	3/7/2018 08:40	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/7/2018 08:40	TD	n

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ANALYTICAL RESULTS

Workorder: 25850 1802O80

Lab ID: **258500002** Date Received: 3/2/2018 11:30 Matrix: Water

Sample ID: **MW-305D-20180227-01** Date Collected: 2/27/2018 12:25

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**<5.0**	mg/l	5.0	0.32	1	3/7/2018 08:53	TD	n
Oxygen	**6.6**	mg/l	0.50	0.12	1	3/7/2018 08:53	TD	n
Nitrogen	**18**	mg/l	2.0	0.34	1	3/7/2018 08:53	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/7/2018 08:53	TD	n

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ANALYTICAL RESULTS

Workorder: 25850 1802O80

Lab ID: **258500003** Date Received: 3/2/2018 11:30 Matrix: Water

Sample ID: **DUP-6-20180227-01** Date Collected: 2/27/2018 00:00

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Carbon Dioxide	**64**	mg/l	5.0	0.32	1	3/7/2018 09:05	TD	n
Oxygen	**2.7**	mg/l	0.50	0.12	1	3/7/2018 09:05	TD	n
Nitrogen	**18**	mg/l	2.0	0.34	1	3/7/2018 09:05	TD	n
Carbon Monoxide	**<1.0**	mg/l	1.0	0.087	1	3/7/2018 09:05	TD	n

Pace Analytical Energy Services LLC
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ANALYTICAL RESULTS QUALIFIERS

Workorder: 25850 1802O80

DEFINITIONS/QUALIFIERS

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

Pace Analytical Energy Services LLC
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QUALITY CONTROL DATA

Workorder: 25850 1802O80

QC Batch: DISG/6698 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 258500001, 258500002, 258500003

METHOD BLANK: 54050

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Carbon Dioxide	mg/l	<5.0	5.0	n
Oxygen	mg/l	<0.50	0.50	n
Nitrogen	mg/l	<2.0	2.0	n
Carbon Monoxide	mg/l	<1.0	1.0	n

LABORATORY CONTROL SAMPLE & LCSD: 54052 54054

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Carbon Dioxide	mg/l	120	140	140	117	117	80-120	0.064	20	n
Oxygen	mg/l	11	11	11	99	97	80-120	1.8	20	n
Nitrogen	mg/l	140	120	120	89	87	80-120	1.4	20	n
Carbon Monoxide	mg/l	2	2.2	2.1	112	103	80-120	8.5	20	n

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

QUALITY CONTROL DATA QUALIFIERS

Workorder: 25850 1802O80

QUALITY CONTROL PARAMETER QUALIFIERS

n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 25850 1802O80

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
258500001	MW-101-20180227-01			AM20GAX	DISG/6698
258500002	MW-305D-20180227-01			AM20GAX	DISG/6698
258500003	DUP-6-20180227-01			AM20GAX	DISG/6698

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: _____

Date: _____ Page _____ of _____

COMPANY: 25850	ADDRESS:
PHONE:	EMAIL:
SAMPLED BY:	SIGNATURE:

ANALYSIS REQUESTED: O_2, N_2, CO_2, CO

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)	REMARKS	Number of Containers
1	MW-101-20180227-01	2-27-18	11:00	X		GW	X		
2	MW-305D-20180227-01	2-27-18	12:25	X		GW	X		
3	DUP-6-20180227-01	2-27-18	- -	X		GW	X		
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Andrea Stephe	3-1-18	1. LOG PASS	3.2.18 1130
2.		2. 1.9°C	
3.		3.	

PROJECT INFORMATION

PROJECT NAME: 1802080

PROJECT #:

SITE ADDRESS:

SEND REPORT TO: MKARALIC@AESATLANTA.COM

INVOICE TO:
(IF DIFFERENT FROM ABOVE)

QUOTE #:_____ PO#:_____

RECEIPT

Total # of Containers

Turnaround Time (TAT) Request

- [X] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush **(auth req.)**
- [ ] Other _____

STATE PROGRAM (if any): _____

E-mail? ☐ Fax? ☐

DATA PACKAGE: I ○ II ○ III ○ IV ○

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT: / / VIA:

IN: / / VIA:

client FedEx UPS US mail courier Greyhound

other: _____

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

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

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

Cooler Receipt Form

Client Name: PES Project: 1802080 Lab Work Order: 25850

A. **Shipping/Container Information** (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other:_____ Air bill Present: (Yes) No

Tracking Number: 4 724931687329

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No

Cooler/Box Packing Material: Bubble Wrap Absorbent Foam Other:_____

Type of Ice: (Wet) Blue None Ice Intact: (Yes) Melted

Cooler Temperature: 1.9°C Radiation Screened: Yes (No) Chain of Custody Present: (Yes) No

Comments:_____

B. **Laboratory Assignment/Log-in** (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC			✓	
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected	✓			
Sufficient volume provided	✓			
PAES containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	
Headspace present?	✓			

Comments:_____

Cooler contents examined/received by: CG Date: 3.2.18

Project Manager Review: RW Date: 3-2-18

Clear Save as

AES ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **ERM - Southeast** AES Work Order Number: **1802O80**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ■ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	◉	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	◉	○		
5.	Custody seals intact on shipping container?	○	○	◉		
6.	Temperature blanks present?	◉	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	◉	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	◉	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	◉	○	○		
10.	Sampler name and/or signature on COC?	◉	○	○		
11.	Were all samples received within holding time?	◉	○	○		
12.	TAT marked on the COC?	◉	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 0.8 °C Cooler 2 Temperature 1.3 °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). AJJ 2/27/18

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	◉	○	○		
17.	Custody seals present on sample containers?	○	◉	○		
18.	Custody seals intact on sample containers?	○	○	◉		
19.	Do sample container labels match the COC?	◉	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	◉	○	○		
21.	Were all of the samples listed on the COC received?	◉	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	◉	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	◉	○	○		
24.	Were samples received in appropriate containers?	◉	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	○	○	◉		
26.	Were trip blanks submitted?	○	○	◉	listed on COC ☐ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). AJJ 2/27/18

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	◉	○	○		
29.	Containers meet preservation guidelines?	◉	○	○		
30.	Was pH adjusted at Sample Receipt?	○	○	◉		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). AJJ 2/27/18

Checklist 6.9.17 Rev 2

Locked

Analytical Environmental Services, Inc

Date: 19-Mar-18

Client: ERM-Southeast
Project Name: AGLC-Macon
Lab Order: 1802O80

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802O80-001A	MW-101-20180227-01	2/27/2018 11:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		3/3/2018 11:52:00AM	03/03/2018
1802O80-001B	MW-101-20180227-01	2/27/2018 11:00:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		3/2/2018 10:00:00AM	03/02/2018
1802O80-001B	MW-101-20180227-01	2/27/2018 11:00:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		3/1/2018 8:00:00AM	03/01/2018
1802O80-001C	MW-101-20180227-01	2/27/2018 11:00:00AM	Groundwater	GC Analysis of Gaseous Samples		3/5/2018 2:04:05PM	03/05/2018
1802O80-001E	MW-101-20180227-01	2/27/2018 11:00:00AM	Groundwater	ION SCAN			02/28/2018
1802O80-001F	MW-101-20180227-01	2/27/2018 11:00:00AM	Groundwater	Sulfide by SW9030/9034		3/5/2018 9:45:00AM	03/05/2018
1802O80-001G	MW-101-20180227-01	2/27/2018 11:00:00AM	Groundwater	TOTAL METALS BY ICP		2/28/2018 6:30:00PM	03/02/2018
1802O80-001G	MW-101-20180227-01	2/27/2018 11:00:00AM	Groundwater	TOTAL MERCURY		3/5/2018 6:53:00PM	03/05/2018
1802O80-001H	MW-101-20180227-01	2/27/2018 11:00:00AM	Groundwater	Ferrous Iron			02/27/2018
1802O80-001I	MW-101-20180227-01	2/27/2018 11:00:00AM	Groundwater	Cyanide		3/5/2018 12:00:00PM	03/05/2018
1802O80-002A	MW-305D-20180227-01	2/27/2018 12:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/3/2018 11:52:00AM	03/05/2018
1802O80-002B	MW-305D-20180227-01	2/27/2018 12:25:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		3/2/2018 10:00:00AM	03/02/2018
1802O80-002B	MW-305D-20180227-01	2/27/2018 12:25:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		3/2/2018 10:00:00AM	03/05/2018
1802O80-002B	MW-305D-20180227-01	2/27/2018 12:25:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		3/1/2018 8:00:00AM	03/01/2018
1802O80-002C	MW-305D-20180227-01	2/27/2018 12:25:00PM	Groundwater	GC Analysis of Gaseous Samples		3/5/2018 2:04:05PM	03/05/2018
1802O80-002E	MW-305D-20180227-01	2/27/2018 12:25:00PM	Groundwater	ION SCAN			02/28/2018
1802O80-002F	MW-305D-20180227-01	2/27/2018 12:25:00PM	Groundwater	Sulfide by SW9030/9034		3/5/2018 9:45:00AM	03/05/2018
1802O80-002G	MW-305D-20180227-01	2/27/2018 12:25:00PM	Groundwater	TOTAL METALS BY ICP		2/28/2018 6:30:00PM	03/02/2018
1802O80-002G	MW-305D-20180227-01	2/27/2018 12:25:00PM	Groundwater	TOTAL MERCURY		3/5/2018 6:53:00PM	03/05/2018
1802O80-002H	MW-305D-20180227-01	2/27/2018 12:25:00PM	Groundwater	Ferrous Iron			02/27/2018
1802O80-002I	MW-305D-20180227-01	2/27/2018 12:25:00PM	Groundwater	Cyanide		3/6/2018 9:50:00AM	03/06/2018
1802O80-003A	DUP-6-20180227-01	2/27/2018 12:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		3/3/2018 11:52:00AM	03/03/2018
1802O80-003B	DUP-6-20180227-01	2/27/2018 12:00:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		3/2/2018 10:00:00AM	03/02/2018
1802O80-003B	DUP-6-20180227-01	2/27/2018 12:00:00AM	Groundwater	Semivolatile Org. Comp. by GC/MS		3/1/2018 8:00:00AM	03/01/2018
1802O80-003C	DUP-6-20180227-01	2/27/2018 12:00:00AM	Groundwater	GC Analysis of Gaseous Samples		3/5/2018 2:04:05PM	03/05/2018
1802O80-003E	DUP-6-20180227-01	2/27/2018 12:00:00AM	Groundwater	ION SCAN			02/28/2018
1802O80-003F	DUP-6-20180227-01	2/27/2018 12:00:00AM	Groundwater	Sulfide by SW9030/9034		3/5/2018 9:45:00AM	03/05/2018
1802O80-003G	DUP-6-20180227-01	2/27/2018 12:00:00AM	Groundwater	TOTAL METALS BY ICP		2/28/2018 6:30:00PM	03/02/2018
1802O80-003G	DUP-6-20180227-01	2/27/2018 12:00:00AM	Groundwater	TOTAL MERCURY		3/5/2018 6:53:00PM	03/06/2018

Client: ERM-Southeast
Project Name: AGLC-Macon
Lab Order: 1802O80

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802O80-003H	DUP-6-20180227-01	2/27/2018 12:00:00AM	Groundwater	Ferrous Iron			02/27/2018
1802O80-003I	DUP-6-20180227-01	2/27/2018 12:00:00AM	Groundwater	Cyanide		3/6/2018 9:50:00AM	03/06/2018
1802O80-004A	TB-1-20180227-01	2/27/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		3/3/2018 11:52:00AM	03/03/2018
1802O80-005A	TB-2-20180227-01	2/27/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		3/3/2018 11:52:00AM	03/03/2018

Client: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802O80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256513

Sample ID: **MB-256513** Client ID: Units: **mg/L** Prep Date: **02/28/2018** Run No: **364408**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010D** BatchID: **256513** Analysis Date: **03/02/2018** Seq No: **8055478**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	0.0200									
Arsenic	BRL	0.0500									
Barium	BRL	0.0200									
Beryllium	BRL	0.0100									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Copper	BRL	0.0100									
Iron	BRL	0.100									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Zinc	BRL	0.0200									

Sample ID: **LCS-256513** Client ID: Units: **mg/L** Prep Date: **02/28/2018** Run No: **364408**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010D** BatchID: **256513** Analysis Date: **03/02/2018** Seq No: **8055480**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	1.029	0.0200	1.000		103	80	120				
Arsenic	0.9938	0.0500	1.000		99.4	80	120				
Barium	0.9970	0.0200	1.000		99.7	80	120				
Beryllium	1.014	0.0100	1.000		101	80	120				
Cadmium	1.012	0.0050	1.000		101	80	120				
Chromium	0.9786	0.0100	1.000		97.9	80	120				
Copper	0.9987	0.0100	1.000		99.9	80	120				
Iron	9.777	0.100	10.00		97.8	80	120				
Lead	1.011	0.0100	1.000		101	80	120				
Nickel	1.003	0.0200	1.000		100	80	120				
Zinc	0.9881	0.0200	1.000		98.8	80	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802O80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256513

Sample ID: **1802P02-001BMS** Client ID:
SampleType: **MS** TestCode: **METALS, TOTAL SW6010D**
Units: **mg/L** Prep Date: **02/28/2018** Run No: **364408**
BatchID: **256513** Analysis Date: **03/02/2018** Seq No: **8055482**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9586	0.0200	1.000	0.04252	91.6	75	125				
Arsenic	0.9584	0.0500	1.000		95.8	75	125				
Barium	0.7751	0.0200	1.000	0.01287	76.2	75	125				
Beryllium	0.7029	0.0100	1.000		70.3	75	125				S
Cadmium	0.9652	0.0050	1.000		96.5	75	125				
Chromium	0.7448	0.0100	1.000	0.002661	74.2	75	125				S
Copper	0.8865	0.0100	1.000	0.02182	86.5	75	125				
Iron	7.710	0.100	10.00	0.4501	72.6	75	125				S
Lead	0.6860	0.0100	1.000		68.6	75	125				S
Nickel	0.7103	0.0200	1.000	0.008710	70.2	75	125				S
Zinc	0.9237	0.0200	1.000	0.1272	79.7	75	125				

Sample ID: **1802P02-001BMSD** Client ID:
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010D**
Units: **mg/L** Prep Date: **02/28/2018** Run No: **364408**
BatchID: **256513** Analysis Date: **03/02/2018** Seq No: **8055483**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9707	0.0200	1.000	0.04252	92.8	75	125	0.9586	1.25	20	
Arsenic	0.9724	0.0500	1.000		97.2	75	125	0.9584	1.45	20	
Barium	0.7829	0.0200	1.000	0.01287	77.0	75	125	0.7751	0.995	20	
Beryllium	0.7117	0.0100	1.000		71.2	75	125	0.7029	1.24	20	S
Cadmium	0.9750	0.0050	1.000		97.5	75	125	0.9652	1.01	20	
Chromium	0.7539	0.0100	1.000	0.002661	75.1	75	125	0.7448	1.21	20	
Copper	0.9018	0.0100	1.000	0.02182	88.0	75	125	0.8865	1.71	20	
Iron	7.753	0.100	10.00	0.4501	73.0	75	125	7.710	0.558	20	S
Lead	0.6962	0.0100	1.000		69.6	75	125	0.6860	1.47	20	S
Nickel	0.7195	0.0200	1.000	0.008710	71.1	75	125	0.7103	1.28	20	S
Zinc	0.9311	0.0200	1.000	0.1272	80.4	75	125	0.9237	0.795	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802O80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256628

Sample ID: **MB-256628** Client ID: Units: **ug/L** Prep Date: **03/01/2018** Run No: **364267**
SampleType: **MBLK** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256628** Analysis Date: **03/01/2018** Seq No: **8052681**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,4-Dimethylphenol	BRL	10									
2-Methylphenol	BRL	10									
3,4-Methylphenol	BRL	10									
Phenol	BRL	10									
Surr: 2,4,6-Tribromophenol	67.92	0	100.0		67.9	51.4	138				
Surr: 2-Fluorobiphenyl	37.46	0	50.00		74.9	44.6	119				
Surr: 2-Fluorophenol	44.65	0	100.0		44.6	27.2	120				
Surr: 4-Terphenyl-d14	45.46	0	50.00		90.9	47.1	136				
Surr: Nitrobenzene-d5	41.76	0	50.00		83.5	40.7	119				
Surr: Phenol-d5	30.89	0	100.0		30.9	18.1	120				

Sample ID: **LCS-256628** Client ID: Units: **ug/L** Prep Date: **03/01/2018** Run No: **364267**
SampleType: **LCS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256628** Analysis Date: **03/01/2018** Seq No: **8052682**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	34.79	10	100.0		34.8	26.4	120				
Surr: 2,4,6-Tribromophenol	76.12	0	100.0		76.1	51.4	138				
Surr: 2-Fluorobiphenyl	43.74	0	50.00		87.5	44.6	119				
Surr: 2-Fluorophenol	49.15	0	100.0		49.2	27.2	120				
Surr: 4-Terphenyl-d14	48.20	0	50.00		96.4	47.1	136				
Surr: Nitrobenzene-d5	46.97	0	50.00		93.9	40.7	119				
Surr: Phenol-d5	34.14	0	100.0		34.1	18.1	120				

Sample ID: **1802Q31-001BMS** Client ID: Units: **ug/L** Prep Date: **03/01/2018** Run No: **364267**
SampleType: **MS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256628** Analysis Date: **03/01/2018** Seq No: **8052684**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	51.69	10	100.0		51.7	31.5	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802O80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256628

Sample ID: **1802Q31-001BMS** Client ID: Units: **ug/L** Prep Date: **03/01/2018** Run No: **364267**
SampleType: **MS** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256628** Analysis Date: **03/01/2018** Seq No: **8052684**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 2,4,6-Tribromophenol	69.95	0	100.0		70.0	51.4	138				
Surr: 2-Fluorobiphenyl	39.79	0	50.00		79.6	44.6	119				
Surr: 2-Fluorophenol	60.63	0	100.0		60.6	27.2	120				
Surr: 4-Terphenyl-d14	45.50	0	50.00		91.0	47.1	136				
Surr: Nitrobenzene-d5	42.67	0	50.00		85.3	40.7	119				
Surr: Phenol-d5	52.99	0	100.0		53.0	18.1	120				

Sample ID: **1802Q31-001BMSD** Client ID: Units: **ug/L** Prep Date: **03/01/2018** Run No: **364267**
SampleType: **MSD** TestCode: **Semivolatile Org. Comp. by GC/MS SW8270D** BatchID: **256628** Analysis Date: **03/01/2018** Seq No: **8052685**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	48.42	10	100.0		48.4	31.5	120	51.69	6.53	28.5	
Surr: 2,4,6-Tribromophenol	71.00	0	100.0		71.0	51.4	138	69.95	0	0	
Surr: 2-Fluorobiphenyl	39.58	0	50.00		79.2	44.6	119	39.79	0	0	
Surr: 2-Fluorophenol	59.31	0	100.0		59.3	27.2	120	60.63	0	0	
Surr: 4-Terphenyl-d14	44.99	0	50.00		90.0	47.1	136	45.50	0	0	
Surr: Nitrobenzene-d5	40.24	0	50.00		80.5	40.7	119	42.67	0	0	
Surr: Phenol-d5	55.89	0	100.0		55.9	18.1	120	52.99	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802O80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256721

Sample ID: **MB-256721** Client ID: Units: **ug/L** Prep Date: **03/02/2018** Run No: **364379**
SampleType: **MBLK** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256721** Analysis Date: **03/02/2018** Seq No: **8054635**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	BRL	0.50									
Acenaphthylene	BRL	1.0									
Anthracene	BRL	0.050									
Benz(a)anthracene	BRL	0.050									
Benzo(a)pyrene	BRL	0.050									
Benzo(b)fluoranthene	BRL	0.10									
Benzo(g,h,i)perylene	BRL	0.10									
Benzo(k)fluoranthene	BRL	0.050									
Chrysene	BRL	0.050									
Dibenz(a,h)anthracene	BRL	0.10									
Fluoranthene	BRL	0.10									
Fluorene	BRL	0.10									
Indeno(1,2,3-cd)pyrene	BRL	0.050									
Naphthalene	BRL	0.50									
Phenanthrene	BRL	0.050									
Pyrene	BRL	0.050									
Surr: 4-Terphenyl-d14	2.326	0	2.000		116	59.9	128				

Sample ID: **LCS-256721** Client ID: Units: **ug/L** Prep Date: **03/02/2018** Run No: **364379**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256721** Analysis Date: **03/02/2018** Seq No: **8054636**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.815	0.50	2.000		90.8	64.7	120				
Acenaphthylene	1.765	1.0	2.000		88.2	63.2	120				
Anthracene	1.734	0.050	2.000		86.7	69.3	125				
Benz(a)anthracene	1.794	0.050	2.000		89.7	71.1	141				
Benzo(a)pyrene	1.803	0.050	2.000		90.1	67.2	131				
Benzo(b)fluoranthene	1.694	0.10	2.000		84.7	66.1	134				

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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802O80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256721

Sample ID: **LCS-256721** Client ID: Units: **ug/L** Prep Date: **03/02/2018** Run No: **364379**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256721** Analysis Date: **03/02/2018** Seq No: **8054636**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(g,h,i)perylene	1.698	0.10	2.000		84.9	66.1	128				
Benzo(k)fluoranthene	2.089	0.050	2.000		104	67.7	133				
Chrysene	2.224	0.050	2.000		111	71.3	137				
Dibenz(a,h)anthracene	1.490	0.10	2.000		74.5	59.7	125				
Fluoranthene	1.861	0.10	2.000		93.0	72.3	129				
Fluorene	1.772	0.10	2.000		88.6	69.2	120				
Indeno(1,2,3-cd)pyrene	1.586	0.050	2.000		79.3	66.4	127				
Naphthalene	1.794	0.50	2.000		89.7	56.8	120				
Phenanthrene	1.725	0.050	2.000		86.3	70.9	120				
Pyrene	2.142	0.050	2.000		107	68.4	138				
Surr: 4-Terphenyl-d14	2.278	0	2.000		114	59.9	128				

Sample ID: **LCSD-256721** Client ID: Units: **ug/L** Prep Date: **03/02/2018** Run No: **364379**
SampleType: **LCSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **256721** Analysis Date: **03/02/2018** Seq No: **8054637**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.845	0.50	2.000		92.2	64.7	120	1.815	1.63	20	
Acenaphthylene	1.756	1.0	2.000		87.8	63.2	120	1.765	0.493	18.4	
Anthracene	1.730	0.050	2.000		86.5	69.3	125	1.734	0.224	20.5	
Benz(a)anthracene	1.741	0.050	2.000		87.1	71.1	141	1.794	2.99	18	
Benzo(a)pyrene	1.769	0.050	2.000		88.4	67.2	131	1.803	1.90	33.5	
Benzo(b)fluoranthene	1.679	0.10	2.000		83.9	66.1	134	1.694	0.935	18.4	
Benzo(g,h,i)perylene	1.751	0.10	2.000		87.6	66.1	128	1.698	3.07	21.8	
Benzo(k)fluoranthene	2.109	0.050	2.000		105	67.7	133	2.089	0.945	20	
Chrysene	2.274	0.050	2.000		114	71.3	137	2.224	2.20	18.4	
Dibenz(a,h)anthracene	1.408	0.10	2.000		70.4	59.7	125	1.490	5.66	20.6	
Fluoranthene	1.834	0.10	2.000		91.7	72.3	129	1.861	1.43	26.9	
Fluorene	1.758	0.10	2.000		87.9	69.2	120	1.772	0.805	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802O80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256721

Sample ID: **LCSD-256721** Client ID:
SampleType: **LCSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D**
Units: **ug/L** Prep Date: **03/02/2018** Run No: **364379**
BatchID: **256721** Analysis Date: **03/02/2018** Seq No: **8054637**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Indeno(1,2,3-cd)pyrene	1.613	0.050	2.000		80.6	66.4	127	1.586	1.71	20.4	
Naphthalene	1.724	0.50	2.000		86.2	56.8	120	1.794	4.01	21	
Phenanthrene	1.690	0.050	2.000		84.5	70.9	120	1.725	2.05	20	
Pyrene	2.150	0.050	2.000		107	68.4	138	2.142	0.372	19	
Surr: 4-Terphenyl-d14	2.776	0	2.000		139	59.9	128	2.278	0	0	S

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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802O80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256808

Sample ID: **MB-256808**	Client ID:				Units: **mg/L**		Prep Date: **03/05/2018**		Run No: **364528**
SampleType: **MBLK**	TestCode: **Mercury, Total SW7470A**				BatchID: **256808**		Analysis Date: **03/05/2018**		Seq No: **8057833**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020									

Sample ID: **LCS-256808**	Client ID:				Units: **mg/L**		Prep Date: **03/05/2018**		Run No: **364528**
SampleType: **LCS**	TestCode: **Mercury, Total SW7470A**				BatchID: **256808**		Analysis Date: **03/05/2018**		Seq No: **8057834**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004111	0.00020	0.0040		103	80	120				

Sample ID: **1802Q42-004BMS**	Client ID:				Units: **mg/L**		Prep Date: **03/05/2018**		Run No: **364528**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**				BatchID: **256808**		Analysis Date: **03/05/2018**		Seq No: **8057836**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004086	0.00020	0.0040		102	70	130				

Sample ID: **1802Q42-004BMSD**	Client ID:				Units: **mg/L**		Prep Date: **03/05/2018**		Run No: **364528**
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**				BatchID: **256808**		Analysis Date: **03/05/2018**		Seq No: **8057837**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004063	0.00020	0.0040		102	70	130	0.004086	0.565	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802O80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256811

Sample ID: **MB-256811** Client ID: Units: **ug/L** Prep Date: **03/03/2018** Run No: **364411**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256811** Analysis Date: **03/03/2018** Seq No: **8055513**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	5.0									
Carbon disulfide	BRL	5.0									
Ethylbenzene	BRL	5.0									
Toluene	BRL	5.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	42.11	0	50.00		84.2	68	127				
Surr: Dibromofluoromethane	53.09	0	50.00		106	84.4	122				
Surr: Toluene-d8	50.89	0	50.00		102	80.1	116				

Sample ID: **LCS-256811** Client ID: Units: **ug/L** Prep Date: **03/03/2018** Run No: **364411**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256811** Analysis Date: **03/03/2018** Seq No: **8055512**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	38.10	5.0	50.00		76.2	73.7	126				
Toluene	39.69	5.0	50.00		79.4	76.8	125				
Surr: 4-Bromofluorobenzene	41.96	0	50.00		83.9	68	127				
Surr: Dibromofluoromethane	52.20	0	50.00		104	84.4	122				
Surr: Toluene-d8	50.76	0	50.00		102	80.1	116				

Sample ID: **1802O80-002AMS** Client ID: **MW-305D-20180227-01** Units: **ug/L** Prep Date: **03/03/2018** Run No: **364411**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256811** Analysis Date: **03/03/2018** Seq No: **8055569**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	28460	2500	25000	2960	102	66.1	137				
Toluene	26600	2500	25000	1245	101	63.8	141				
Surr: 4-Bromofluorobenzene	20780	0	25000		83.1	68	127				
Surr: Dibromofluoromethane	25680	0	25000		103	84.4	122				
Surr: Toluene-d8	24660	0	25000		98.6	80.1	116				

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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802O80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256811

Sample ID: **1802O80-002AMSD** Client ID: **MW-305D-20180227-01** Units: **ug/L** Prep Date: **03/03/2018** Run No: **364411**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **256811** Analysis Date: **03/03/2018** Seq No: **8055572**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	29230	2500	25000	2960	105	66.1	137	28460	2.65	20	
Toluene	27420	2500	25000	1245	105	63.8	141	26600	3.04	20	
Surr: 4-Bromofluorobenzene	21330	0	25000		85.3	68	127	20780	0	0	
Surr: Dibromofluoromethane	26340	0	25000		105	84.4	122	25680	0	0	
Surr: Toluene-d8	24980	0	25000		99.9	80.1	116	24660	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802O80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256812

Sample ID: **MB-256812**	Client ID:			Units: **mg/L**	Prep Date: **03/05/2018**	Run No: **364428**
SampleType: **MBLK**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **256812**	Analysis Date: **03/05/2018**	Seq No: **8056061**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	2.00									

Sample ID: **LCS-256812**	Client ID:			Units: **mg/L**	Prep Date: **03/05/2018**	Run No: **364428**
SampleType: **LCS**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **256812**	Analysis Date: **03/05/2018**	Seq No: **8056062**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	344.0	2.00	344.0		100	70	130				

Sample ID: **1802O80-001FMS**	Client ID: **MW-101-20180227-01**			Units: **mg/L**	Prep Date: **03/05/2018**	Run No: **364428**
SampleType: **MS**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **256812**	Analysis Date: **03/05/2018**	Seq No: **8056072**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	15.80	2.00	17.20		91.9	62.8	125				

Sample ID: **1802O80-001FMSD**	Client ID: **MW-101-20180227-01**			Units: **mg/L**	Prep Date: **03/05/2018**	Run No: **364428**
SampleType: **MSD**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **256812**	Analysis Date: **03/05/2018**	Seq No: **8056073**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	16.80	2.00	17.20		97.7	62.8	125	15.80	6.13	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802O80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256828

Sample ID: **MB-256828**	Client ID:				Units: **mg/L**		Prep Date: **03/05/2018**		Run No: **364471**
SampleType: **MBLK**	TestCode: **Cyanide SW9014**				BatchID: **256828**		Analysis Date: **03/05/2018**		Seq No: **8056757**

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

Sample ID: **LCS-256828**	Client ID:				Units: **mg/L**		Prep Date: **03/05/2018**		Run No: **364471**
SampleType: **LCS**	TestCode: **Cyanide SW9014**				BatchID: **256828**		Analysis Date: **03/05/2018**		Seq No: **8056758**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2440	0.010	0.2500		97.6	85	115				

Sample ID: **1802O80-001IMS**	Client ID: **MW-101-20180227-01**				Units: **mg/L**		Prep Date: **03/05/2018**		Run No: **364471**
SampleType: **MS**	TestCode: **Cyanide SW9014**				BatchID: **256828**		Analysis Date: **03/05/2018**		Seq No: **8056780**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2770	0.010	0.2500	0.01880	103	70	130				

Sample ID: **1802O80-001IMSD**	Client ID: **MW-101-20180227-01**				Units: **mg/L**		Prep Date: **03/05/2018**		Run No: **364471**
SampleType: **MSD**	TestCode: **Cyanide SW9014**				BatchID: **256828**		Analysis Date: **03/05/2018**		Seq No: **8056786**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.3080	0.010	0.2500	0.01880	116	70	130	0.2770	10.6	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802O80

ANALYTICAL QC SUMMARY REPORT

BatchID: 256843

Sample ID: **MB-256843**	Client ID:			Units: **ug/L**	Prep Date: **03/05/2018**	Run No: **364508**
SampleType: **MBLK**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256843**	Analysis Date: **03/05/2018**	Seq No: **8057400**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	BRL	4.0									

Sample ID: **LCS-256843**	Client ID:			Units: **ug/L**	Prep Date: **03/05/2018**	Run No: **364508**
SampleType: **LCS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256843**	Analysis Date: **03/05/2018**	Seq No: **8057401**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	139.6	4.0	200.0		69.8	45.1	115				

Sample ID: **LCSD-256843**	Client ID:			Units: **ug/L**	Prep Date: **03/05/2018**	Run No: **364508**
SampleType: **LCSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256843**	Analysis Date: **03/05/2018**	Seq No: **8057402**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	128.6	4.0	200.0		64.3	45.1	115	139.6	8.23	20	

Sample ID: **1802O80-003CMS**	Client ID: **DUP-6-20180227-01**			Units: **ug/L**	Prep Date: **03/05/2018**	Run No: **364508**
SampleType: **MS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256843**	Analysis Date: **03/05/2018**	Seq No: **8057406**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	132.8	4.0	200.0	10.71	61.1	42	115				

Sample ID: **1802O80-003CMSD**	Client ID: **DUP-6-20180227-01**			Units: **ug/L**	Prep Date: **03/05/2018**	Run No: **364508**
SampleType: **MSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**			BatchID: **256843**	Analysis Date: **03/05/2018**	Seq No: **8057407**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	127.9	4.0	200.0	10.71	58.6	42	115	132.8	3.74	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802O80

ANALYTICAL QC SUMMARY REPORT

BatchID: R364001

Sample ID: **MB-R364001**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **364001**	
SampleType: **MBLK**	TestCode: **Ferrous Iron**					BatchID: **R364001**		Analysis Date: **02/27/2018**		Seq No: **8044638**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R364001**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **364001**	
SampleType: **LCS**	TestCode: **Ferrous Iron**					BatchID: **R364001**		Analysis Date: **02/27/2018**		Seq No: **8044639**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5110	0.100	0.5000		102	85	115				

Sample ID: **1802N75-001HMS**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **364001**	
SampleType: **MS**	TestCode: **Ferrous Iron**					BatchID: **R364001**		Analysis Date: **02/27/2018**		Seq No: **8044645**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	4.115	0.500	2.500	1.270	114	80	120				

Sample ID: **1802N75-001HMSD**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **364001**	
SampleType: **MSD**	TestCode: **Ferrous Iron**					BatchID: **R364001**		Analysis Date: **02/27/2018**		Seq No: **8044646**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	4.075	0.500	2.500	1.270	112	80	120	4.115	0.977	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: ERM-Southeast
Project Name: AGLC-Macon
Workorder: 1802O80

ANALYTICAL QC SUMMARY REPORT

BatchID: R364214

Sample ID: **MB-R364214** Client ID: Units: **mg/L** Prep Date: Run No: **364214**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R364214** Analysis Date: **02/28/2018** Seq No: **8050014**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R364214** Client ID: Units: **mg/L** Prep Date: Run No: **364214**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R364214** Analysis Date: **02/28/2018** Seq No: **8050013**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.695	0.25	5.000		93.9	90	110				
Sulfate	23.85	1.0	25.00		95.4	90	110				

Sample ID: **1802P68-001AMS** Client ID: Units: **mg/L** Prep Date: Run No: **364214**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R364214** Analysis Date: **02/28/2018** Seq No: **8050024**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	63.80	2.5	50.00	1.457	125	90	110				S
Sulfate	254.2	10	250.0	4.917	99.7	90	110				

Sample ID: **1802P68-001AMSD** Client ID: Units: **mg/L** Prep Date: Run No: **364214**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R364214** Analysis Date: **02/28/2018** Seq No: **8050025**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	63.32	2.5	50.00	1.457	124	90	110	63.80	0.743	20	S
Sulfate	248.5	10	250.0	4.917	97.4	90	110	254.2	2.25	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		

APPENDIX F – CD ONLY

Data Validation – February 2018

Appendix F - Data Validation
Sample Submittals
AGLC - Macon, Georgia
February 20th-27th, 2018

Matrix	Sample ID	Laboratory ID
Water	MW-101-20180227-01	1802O80-001
Water	DUP-6-20180227-01	1802O80-003
Water	TB-1-20180227-01	1802O80-004
Water	MW-21-20180226-01	1802N75-002
Water	MW-14I-20180226-01	1802N75-003
Water	MW-14-20180226-01	1802N75-004
Water	TB-1-20180226-01	1802N75-006
Water	MW-08-20180223-01	1802M41-003
Water	TB-6-20180223-01	1802M41-005
Water	MW-106-20180222-01	1802L36-002
Water	MW-401-20180222-01	1802L36-003
Water	MW-107-20180222-01	1802L36-004
Water	MW-15-20180222-01	1802L36-007
Water	MW-104-20180222-01	1802L36-008
Water	MW-104I-20180222-01	1802L36-009
Water	TB-1-20180223-01	1802L36-011
Water	MW-205-20180221-01	1802K99-001
Water	AMW-2-20180222-01	1802K99-006
Water	MW-400-20180222-01	1802K99-007
Water	MW-102-20180222-01	1802K99-009
Water	DUP-3-20180222-01	1802K99-010
Water	MW-103-20180222-01	1802K99-013
Water	TB-1-20180222-01	1802K99-014
Water	TB-2-20180222-01	1802K99-015
Water	TB-3-20180222-01	1802K99-016
Water	MW-108-20180221-01	1802K33-001

Appendix F - Data Validation
Sample Submittals
AGLC - Macon, Georgia
February 20th-27th, 2018

Matrix	Sample ID	Laboratory ID
Water	MW-109-20180221-01	1802K33-002
Water	TB-9-20180221-01	1802K33-003
Water	TB-10-20180221-01	1802K33-004
Water	MW-28-20180221-01	1802K33-009
Water	MW-105-20180221-01	1802K33-010
Water	AMW-6-2018-0221-01	1802K32-001
Water	AMW-15-20180221-01	1802K32-002
Water	MW-11-20180221-01	1802K32-003
Water	DUP-2-20180221-01	1802K32-004
Water	TB-3-20180221-01	1802K32-005
Water	TB-4-20180221-01	1802K32-006
Water	MW-23-20180220-01	1802J52-002
Water	MW-10-20180221-01	1802J52-003
Water	AMW-14-20180221-01	1802J52-004
Water	TB-1-20180221-01	1802J52-005
Water	AMW-13-20180220-01	1802J08-002
Water	MW-26-20180220-01	1802J08-003
Water	AMW-11-20180220-01	1802J08-004
Water	AMW-12-20180220-01	1802J08-006
Water	TB-2-20180220-01	1802J08-011
Water	TB-3-20180220-01	1802J08-012

Appendix F - Data Validation
ERM Analytical Data Validation Checklist

Project Name: AGLC/Macon	Laboratory: Analytical Environmental Services, Inc.
Project Reference: 0366660	Sample Matrix: Aqueous
ERM Project Phase Number: 18	Sample Start Date: 2/20/2018
Date Validated: March 22, 2018	Sample End Date: 2/27/2018

Sample Analyzed: Approximately ten percent (10%) of the samples collected were chosen for validation. The following samples within Order No: 1802K32, Order No: 1802K99, and Order No: 1802O80 were validated. For a full list of the samples collected, see the sample submittal summary above.

MW-101-20180227-01	DUP-6-20180227-01
MW-400-20180222-01	DUP-3-20180222-01
MW-11-20180221-01	DUP-2-20180221-01

Parameters Analyzed: Volatile Organic Compounds (Benzene, Toluene, Ethylbenzene, Total Xylenes and carbon disulfide) by SW-846 Method 8260B, Sulfide by SW-846 Method 9030B/9034, Total Mercury by SW-846 Method 7470A, Nitrate and Sulfate by SW-846 Method 9056A, Methane by SOP-RSK 175, Cyanide by SW-846 Method 9014, Total Metals by SW-846 Method 6010D, Ferrous Iron by SW-846 Method 3500Fe-B, and Low Level Semi-Volatile Organic Compounds and SIM Polynuclear Aromatic Hydrocarbons by SW-846 Method 8270D

Laboratory Order No: 1802K32

PRECISION, ACCURACY, METHOD CONFORMANCE, AND COMPLETENESS ASSESSMENT

Precision:	**X**	Acceptable	Unacceptable	HB	Initials

Comments: Laboratory precision was evaluated using laboratory control samples (LCSs), and laboratory duplicates. Matrix spike and matrix duplicate analyses were not performed with Batch 256248 due to insufficient sample volume. Evaluation of duplicates was done using the Relative Percent Difference (RPD). The RPD is defined as the difference between two duplicate sample results divided by the mean, and expressed as a percent. Overall, laboratory and field sampling precision were acceptable.

Accuracy:	**X**	Acceptable	Unacceptable	HB	Initials

Comments: Accuracy is a measure of the system bias. Laboratory accuracy was evaluated using blanks, matrix spikes (MSs), LCSs, and surrogate recoveries. Matrix spike and matrix duplicate analyses were not performed with Batch 256248 due to insufficient sample volume. Overall, laboratory accuracy was acceptable.

Method Compliance:	**X**	Acceptable	Unacceptable		Initials

Comments: Method compliance was evaluated using holding times, internal standard recoveries, and surrogate recoveries. Method 3500Fe-B as listed in Standard Methods for the Examination of Water and Wastewater 22nd Edition is applicable for analyzing Ferrous Iron in the field. Samples were analyzed in the laboratory which is a deviation from the method. Overall method compliance was acceptable.

Completeness:	**X**	Acceptable	Unacceptable	HB	Initials

Comments: Completeness is a percentage expression of the ratio of total acceptable data points to the total possible data points. No data points were rejected; all data are usable with some usable with qualification. For the sample data validated, no data points were rejected. The data set was 100% complete.

Laboratory Order No: 1802K99

Appendix F - Data Validation
ERM Analytical Data Validation Checklist

PRECISION, ACCURACY, METHOD CONFORMANCE, AND COMPLETENESS ASSESSMENT					
Precision:	X	Acceptable	Unacceptable	HB	Initials
Comments: Laboratory precision was evaluated using laboratory control samples (LCSs), and laboratory duplicates. Evaluation of duplicates was done using the Relative Percent Difference (RPD). The RPD is defined as the difference between two duplicate sample results divided by the mean, and expressed as a percent. Overall, laboratory and field sampling precision were acceptable.					
Accuracy:	X	Acceptable	Unacceptable	HB	Initials
Comments: Accuracy is a measure of the system bias. Laboratory accuracy was evaluated using blanks, matrix spikes (MSs), LCSs, and surrogate recoveries. Overall, laboratory accuracy was acceptable.					
Method Compliance:	X	Acceptable	Unacceptable	HB	Initials
Comments: Method compliance was evaluated using holding times, internal standard recoveries, and surrogate recoveries. Sample DUP-3-20180222-01 was extracted and/or analyzed outside holding time of 48 hours for Nitrate due to no collection time provided. Method 3500Fe-B as listed in Standard Methods for the Examination of Water and Wastewater 22nd Edition is applicable for analyzing Ferrous Iron in the field. Samples were analyzed in the laboratory which is a deviation from the method. Overall method compliance was acceptable.					
Completeness:	X	Acceptable	Unacceptable	HB	Initials
Comments: Completeness is a percentage expression of the ratio of total acceptable data points to the total possible data points. No data points were rejected; all data are usable with some usable with qualification. For the sample data validated, no data points were rejected. The data set was 100% complete.					

Laboratory Order No: 1802O80

PRECISION, ACCURACY, METHOD CONFORMANCE, AND COMPLETENESS ASSESSMENT					
Precision:	X	Acceptable	Unacceptable	HB	Initials
Comments: Laboratory precision was evaluated using laboratory control samples (LCSs), and laboratory duplicates. Matrix spike and matrix duplicate analyses were not performed with Batch 256248 due to insufficient sample volume. Evaluation of duplicates was done using the Relative Percent Difference (RPD). The RPD is defined as the difference between two duplicate sample results divided by the mean, and expressed as a percent. Overall, laboratory and field sampling precision were acceptable.					
Accuracy:	X	Acceptable	Unacceptable	HB	Initials
Comments: Accuracy is a measure of the system bias. Laboratory accuracy was evaluated using blanks, matrix spikes (MSs), LCSs, and surrogate recoveries. Matrix spike and matrix duplicate analyses were not performed with Batch 256248 due to insufficient sample volume. Overall, laboratory accuracy was acceptable.					
Method Compliance:	X	Acceptable	Unacceptable	HB	Initials
Comments: Method compliance was evaluated using holding times, internal standard recoveries, and surrogate recoveries. Method 3500Fe-B as listed in Standard Methods for the Examination of Water and Wastewater 22nd Edition is applicable for analyzing Ferrous Iron in the field. Samples were analyzed in the laboratory which is a deviation from the method. Overall method compliance was acceptable.					
Completeness:	X	Acceptable	Unacceptable	HB	Initials
Comments: Completeness is a percentage expression of the ratio of total acceptable data points to the total possible data points. No data points were rejected; all data are usable with some usable with qualification. For the sample data validated, no data points were rejected. The data set was 100% complete.					

Appendix F - Data Validation
ERM Analytical Data Validation Checklist (Continued)

February 20th-27th, 2018						
Data validation flags used in this review only include those used by the laboratory: BRL Below reporting limit H Holding times for preparation or analysis exceeded **Only bolded comments required qualification.** The other comments are of interest, but qualification of the results was not necessary.						
1. Did the laboratory identify any nonconformances related to the analytical results?		Yes	**X**	No	HB	Initials
Explanation:						
PAH Analysis by Method 8270D-SIM: Matrix spike and matrix spike duplicate analyses were not performed with Batch 256721 due to insufficient sample volume. **Ferrous Iron by SM3500Fe-B:** Method 3500Fe-B as listed in Standard Methods for the Examination of Water and Wastewater 22nd Edition is applicable for analyzing Ferrous Iron in the field. Samples were analyzed in the laboratory which is a deviation from the method.						
2. Were samples Chain-of Custody (COC) forms complete?		Yes	**X**	No	HB	Initials
Comments: Four Trip Blanks were received but not listed on the COC. Sample TB-3-20180226-01 was listed on the chain of custody but not present. The laboratory proceeded with analysis of the trip blanks received.						
3. Were all the analyses requested for the samples on the COCs completed by the laboratory?	**X**	Yes		No	HB	Initials
Comments: All analyses requested for the samples on the COCs were completed by the laboratory.						
4. Were samples received in good condition and at appropriate temperature?	**X**	Yes		No	HB	Initials
Comments: Samples were received in good condition and at appropriate temperature.						

Appendix F - Data Validation
ERM Analytical Data Validation Checklist (Continued)

5. Were the requested analytical methods in compliance with WP/QAPP, permit, or COC?	**X**	Yes		No	HB	Initials
Comments: Requested analytical methods were in compliance with COC forms. Additionally, the test results in the validated report meet all NELAP requirements for parameters for which accreditation is required or available.						
6. Were detection limits in accordance with WP/QAPP, permit, or method?	**X**	Yes		No	HB	Initials
Comments: Results were reported down to the practical quantitation limits.						
7. Do the laboratory reports include only those constituents requested to be reported for a specific analytical method?	**X**	Yes		No	HB	Initials
Comments: The laboratory reported the requested constituents.						
8. Were the sample holding times met?		Yes	**X**	No	HB	Initials
Comments: Sample DUP-3-20180222-01 was extracted and/or analyzed outside holding time of 48 hours for Nitrate due to no collection time provided.						
9. Were correct concentration units reported?	**X**	Yes		No	HB	Initials
Comments: Organic results were reported in µg/L and inorganics in mg/L						
10. Were the reporting requirements for flagged data met?	**X**	Yes		No	HB	Initials
Comments:						
11. Were laboratory blank samples free of target analyte contamination?	**X**	Yes		No	HB	Initials
Comments: Target analytes were not detected in blanks.						

Appendix F - Data Validation
ERM Analytical Data Validation Checklist (Continued)

12. Were trip blank, field blank, and/ or equipment rinse blank samples free of target analyte contamination?	**X**	Yes		No	HB	Initials
Comments: Trip blanks were free of analytes.						
13. Were instrument calibrations within method control limits?	**X**	Yes		No	HB	Initials
Comments: The initial calibrations were within control limits.						
14. Were surrogate recoveries within control limits?		Yes	**X**	No	HB	Initials
Comments: Percent recovery for the surrogate spiking compound 4-Terphenyl-d14 on sample LCSD-256721 was outside control limits biased high.						
15. Were laboratory control sample recoveries within control limits?	**X**	Yes		No	HB	Initials
Comments: The LCS recoveries were within control limits.						
16. Were matrix spike recoveries within control limits?	**X**	Yes		No	HB	Initials
Comments: All matrix spike recoveries were within control limits						
17. Were duplicate RPDs and/or serial dilution %Ds within control limits?	**X**	Yes		No	HB	Initials
Comments: RPDs for MS/MSDs, laboratory duplicate samples and LCS/LCSDs met QC criteria for all target compounds/analytes for the samples validated.						
18. Were organic system performance criteria met?	**X**	Yes		No	HB	Initials
Comments: All GC/MS internal standards were within method criteria for the samples validated.						
19. Were internal standards within method criteria for GS/MS sample analyses?	**X**	Yes		No	HB	Initials
Comments: All GC/MS internal standards were within method criteria for the samples validated.						
20. Were inorganic system performance criteria met?	**X**	Yes		No	HB	Initials
Comments:						
21. Were blind field duplicates collected? If so, discuss the precision (RPD) of the results.	**X**	Yes		No	HB	Initials
Comments: All RPDs were within acceptance limits						
22. Were qualitative criteria for organic target analyte identification met?	**X**	Yes		No	HB	Initials
Comments: All qualitative criteria for organic target analyte identification were met.						
23. Were 100% of the EDD concentrations and reporting limits compared to the hardcopy data reports?	**X**	Yes		No	HB	Initials
Comments:						

Appendix F - Data Validation
Field Duplicate Comparisons
February 20th-27th, 2018

Parameter	MW-101-20180227-01		DUP-6-20180227-01		RPD(%)
Naphthalene	3.600	ug/L	3.100	ug/L	15
Acenaphthene	0.990	µg/L	0.810	µg/L	20
Fluorene	0.740	µg/L	0.610	ug/L	19
Phenanthrene	0.130	µg/L	0.120	µg/L	8
Anthracene	0.059	µg/L	0.053	µg/L	11
Fluoranthene	0.160	µg/L	0.140	µg/L	13
Pyrene	0.150	µg/L	0.120	µg/L	22
Nitrate	3.800	µg/L	3.800	µg/L	0
Sulfate	120	mg/L	110	mg/L	9
Methane	5.000	mg/L	4.800	mg/L	4
Ferrous Iron	0.309	mg/L	0.309	mg/L	0
Cyanide, Total	0.019	mg/L	0.014	mg/L	30
Barium	0.056	mg/L	0.056	mg/L	1
Iron	0.804	mg/L	0.830	mg/L	3

Parameter	MW-400-20180222-01		DUP-3-20180222-01		RPD(%)
Acenaphthene	0.520	µg/L	0.520	µg/L	0
Fluorene	BRL	µg/L	0.110	ug/L	NC
Anthracene	0.110	µg/L	0.150	µg/L	31
Fluoranthene	BRL	µg/L	0.100	µg/L	NC
Pyrene	0.130	µg/L	0.170	µg/L	27
Nitrate	2.200	mg/L	2.200	mg/L	0
Sulfate	370	mg/L	480	mg/L	26
Methane	47	mg/L	41	mg/L	14
Ferrous Iron	2.270	mg/L	2.350	mg/L	3
Cyanide, Total	0.075	mg/L	0.081	mg/L	8
Barium	0.040	mg/L	0.042	mg/L	4
Iron	2.440	mg/L	2.650	mg/L	8
Zink	0.055	mg/L	0.057	mg/L	3

Parameter	MW-11-20180221-01		DUP-2-20180221-01		RPD(%)
Sulfate	120	mg/L	110	mg/L	9
Methane	73	mg/L	59	mg/L	21
Ferrous Iron	0.265	mg/L	0.142	mg/L	60
Barium	0.049	mg/L	0.049	mg/L	0
Cadmium	0.013	mg/L	0.013	mg/L	1
Iron	1.070	mg/L	1.110	mg/L	4
Zink	0.026	mg/L	0.028	mg/L	10

Appendix F - Data Validation
Sample Submittals
AGLC Macon
February 20th-27th, 2018

Matrix	Sample ID	Laboratory ID
Water	MW-305D-20180227-01	1802O80-002
Water	TB-2-20180227-01	1802O80-005
Water	MW-205D-20180226-01	1082N57-001
Water	DUP-5-20180226-01	1802N75-005
Water	TB-2-20180226-01	1802N75-007
Water	MW-12DD-20180223-01	1802M41-001
Water	MW-206D-20180223-01	1802M41-002
Water	MW-205DD-20180223-01	1802M41-004
Water	TB-7-20180223-01	1802M41-006
Water	MW-110D-20180222-01	1802L36-001
Water	MW-300D-20180222-01	1802L36-005
Water	MW-200DR-20180222-01	1802L36-006
Water	MW-12DRR-20180223-01	1802L36-010
Water	TB-3-20180223-01	1802L36-013
Water	MW-12IR-20180222-01	1802K99-002
Water	MW-12R-20180222-01	1802K99-003
Water	MW-301D-20180222-01	1802K99-004
Water	MW-207D-20180222-01	1802K99-005
Water	MW-302DD-20180222-01	1802K99-008
Water	DUP-4-20180222-01	1802K99-011
Water	MW-204D-20180222-01	1802K99-012
Water	TB-4-20180222-01	1802K99-017
Water	TB-5-20180222-01	1802K99-018
Water	TB-6-20180222-01	1802K99-019
Water	MW-304D-20180221-01	1802K34-001
Water	DUP-1-20180221-01	1802K34-002
Water	TB-7-20180221-01	1802K34-003
Water	MW-114D-20180221-01	1802K33-005
Water	MW-302D-20180221-01	1802K33-006
Water	TRIP BLANK	1802K33-011

Appendix F - Data Validation
Sample Submittals
AGLC Macon
February 20th-27th, 2018

Matrix	Sample ID	Laboratory ID
Water	MW-307D-20180221-01	1082K31-001
Water	MW-306D-20180221-01	1082K31-002
Water	TB-8-20180221-01	1082K31-003
Water	MW-08D-20180221-01	1802K30-001
Water	MW-22D-20180221-01	1802K30-002
Water	TB-5-20180221-01	1802K30-003
Water	TB-6-20180221-01	1802K30-004
Water	MW-112D-20180220-01	1802J52-001
Water	TB-2-20180221-01	1802J52-006
Water	MW-113D-20180221-01	1802J52-007
Water	MW-27D-20180220-01	1802J08-001
Water	MW-26D-20180220-01	1802J08-005
Water	MW-27DD-20180220-01	1802J08-007
Water	MW-23D-20180220-01	1802J08-008
Water	MW-108D-20180220-01	1802J08-009
Water	MW-308D-20180220-01	1802J08-010
Water	TB-4-20180220-01	1802J08-013
Water	TB-5-20180220-01	1802J08-014
Water	TB-6-20180220-01	1802J08-015

Appendix F - Data Validation
ERM Analytical Data Validation Checklist

Project Name: AGLC/Macon	Laboratory: Analytical Environmental Services, Inc.
Project Reference: 0366660	Sample Matrix: Aqueous
ERM Project Phase Number: 18	Sample Start Date: 2/20/2018
Date Validated: March 22, 2018	Sample End Date: 2/27/2018

Sample Analyzed: Approximately ten percent (10%) of the samples collected were chosen for validation. The following samples within Order No: 1802K34, Order No: 1802K99, and Order No: 1802N75 were validated. For a full list of the samples collected, see the sample submittal summary above.

MW-205D-20180226-01	DUP-5-20180226-01
MW-204D-20180222-01	DUP-4-20180222-01
MW-306D-20180221-01	DUP-1-20180221-01

Parameters Analyzed: Volatile Organic Compounds (Benzene, Toluene, Ethylbenzene, Total Xylenes and carbon disulfide) by SW-846 Method 8260B, Sulfide by SW-846 Method 9030B/9034, Total Mercury by SW-846 Method 7470A, Nitrate and Sulfate by SW-846 Method 9056A, Methane by SOP-RSK 175, Cyanide by SW-846 Method 9014, Total Metals by SW-846 Method 6010D, Ferrous Iron by SW-846 Method 3500Fe-B, and Low Level Semi-Volatile Organic Compounds and SIM Polynuclear Aromatic Hydrocarbons by SW-846 Method 8270D

Laboratory Order No: 1802K34, 1802K99, 1802N75

PRECISION, ACCURACY, METHOD CONFORMANCE, AND COMPLETENESS ASSESSMENT

Precision:	**X**	Acceptable		Unacceptable	HB	Initials

Comments: Laboratory precision was evaluated using laboratory control samples (LCSs), laboratory duplicates, and matrix spike duplicates (MSDs). Field sampling precision was evaluated using field duplicates. Evaluation of duplicates was done using the Relative Percent Difference (RPD). The RPD is defined as the difference between two duplicate sample results divided by the mean, and expressed as a percent. Overall, laboratory and field sampling precision were acceptable.

Accuracy:	**X**	Acceptable		Unacceptable	HB	Initials

Comments: Accuracy is a measure of the system bias. Laboratory accuracy was evaluated using blanks, matrix spikes (MSs), LCSs, and surrogate recoveries. Overall, laboratory accuracy was acceptable.

Method Compliance:	**X**	Acceptable		Unacceptable	HB	Initials

Comments: Method compliance was evaluated using holding times, internal standard recoveries, and surrogate recoveries. Overall method compliance was acceptable.

Completeness:	**X**	Acceptable		Unacceptable	HB	Initials

Comments: Completeness is a percentage expression of the ratio of total acceptable data points to the total possible data points. No data points were rejected; all data are usable with some usable with qualification. For the sample data validated, no data points were rejected. The data set was 100% complete.

EVALUATION CRITERIA CHECK

Data validation flags used in this review only include those used by the laboratory:

BRL	Below reporting limit

Appendix F - Data Validation
ERM Analytical Data Validation Checklist (Continued)

February 20th-27th, 2018

Data validation flags used in this review only include those used by the laboratory:

BRL	Below reporting limit
H	Holding times for preparation or analysis exceeded
NARR	See case narrative

Only bolded comments required qualification. The other comments are of interest, but qualification of the results was not necessary.

1. Did the laboratory identify any nonconformances related to the analytical results?	**X**	Yes		No	HB	Initials

Explanation: The laboratory identified the following nonconformance in the case narratives for the samples validated.

Ion Scan Analysis by Method 9056A: Due to sample matrix, sample 1802J08-010 required dilution preparation and/or analysis resulting in elevated reporting limits. Due to sample matrix, sample 1802K34-002 required dilution preparation and/or analysis resulting in elevated reporting limits. Due to sample matrix, sample 1802O80-002 required dilution preparation and/or analysis resulting in elevated reporting limits.

PAH Analysis by Method 8270D-SIM: Due to sample matrix, samples 1802K31-001, and 1802K31-002 required dilution preparation and/or analysis resulting in elevated reporting limits. Matrix spike and matrix spike duplicate analyses were not performed with Batch 256721 due to insufficient sample volume.

Ferrous Iron Analysis by Method SM3500-Fe D: Due to sample matrix, sample 1802K34-001 required dilution preparation and/or analysis resulting in elevated reporting limits.

Volatiles Organic Compounds Analysis by Method 8260B: Due to sample matrix, samples 1802N75-001, and 1802N75-005 required dilution preparation and/or analysis resulting in elevated reporting limits.

Ferrous Iron by SM3500Fe-B: Method 3500Fe-B as listed in Standard Methods for the Examination of Water and Wastewater 22nd Edition is applicable for analyzing Ferrous Iron in the field. Samples were analyzed in the laboratory which is a deviation from the method.

2. Were samples Chain-of Custody (COC) forms complete?		Yes	**X**	No	HB	Initials

Comments: Sample MW-113D-20180221-01 was received but not listed on the Chain of Custody. Andreas Shoredits was notified via phone on 2/22/18. New COC was received via email on 2/26/18. Four Trip Blanks were received but not listed on the COC. Sample TB-3-20180226-01 was listed on the chain of custody but not present. The laboratory proceeded with analysis of the trip blanks received.

Appendix F - Data Validation
ERM Analytical Data Validation Checklist (Continued)

3. Were all the analyses requested for the samples on the COCs completed by the laboratory?	**X**	Yes		No	HB	Initials
Comments: All analyses requested for the samples on the COCs were completed by the laboratory.						
4. Were samples received in good condition and at appropriate temperature?	**X**	Yes		No	HB	Initials
Comments: The samples were received in good condition and at the appropriate temperature						
5. Were the requested analytical methods in compliance with WP/QAPP, permit, or COC?	**X**	Yes		No	HB	Initials
Comments: Requested analytical methods were in compliance with COC forms. Additionally, the test results in the validated report meet all NELAP requirements for parameters for which accreditation is required or available.						
6. Were detection limits in accordance with WP/QAPP, permit, or method?	**X**	Yes		No	HB	Initials
Comments: Results were reported down to the practical quantitation limits.						
7. Do the laboratory reports include only those constituents requested to be reported for a specific analytical method?	**X**	Yes		No	HB	Initials
Comments: The laboratory reported the requested constituents.						
8. Were the sample holding times met?		Yes	**X**	No	HB	Initials
Comments: Sample ID DUP-5-20180226-01 waswas extracted and/or analyzed outside holding time of 48 hours for Ferrous Iron due to no collection time on the COC. Sample DUP-4-20180222-01 was extracted and/or analyzed outside holding time of 48 hours for Nitrate due to no collection time provided.						
9. Were correct concentration units reported?	**X**	Yes		No	HB	Initials
Comments: Organic results were reported in µg/L and inorganics in mg/L						
10. Were the reporting requirements for flagged data met?	**X**	Yes		No	HB	Initials
Comments:						
11. Were laboratory blank samples free of target analyte contamination?	**X**	Yes		No	HB	Initials
Comments: Target analytes were not detected in blanks.						

Appendix F - Data Validation
ERM Analytical Data Validation Checklist (Continued)

Were the trip blank, field blank, and/or equipment rinse blank samples free of target analyte contamination?	**X**	Yes		No	HB	Initials
Comments: Trip blanks were free of analytes.						
13. Were instrument calibrations within method control limits?	**X**	Yes		No	HB	Initials
Comments: The initial calibrations were within control limits.						
14. Were surrogate recoveries within control limits?		Yes	**X**	No	HB	Initials
Comments: Percent recovery for the surrogate spiking compound 4-Terphenyl-d14 on sample LCSD-256721 was outside control limits biased high.						
15. Were laboratory control sample recoveries within control limits?	**X**	Yes		No	HB	Initials
Comments: The LCS recoveries were within control limits.						
16. Were matrix spike recoveries within control limits?	**X**	Yes		No	HB	Initials
Comments: All matrix spike recoveries were within control limits						
17. Were duplicate RPDs and/or serial dilution %Ds within control limits?	**X**	Yes		No	HB	Initials
Comments: RPDs for MS/MSDs, laboratory duplicate samples and LCS/LCSDs met QC criteria for all target compounds/analytes for the samples validated.						
18. Were organic system performance criteria met?	**X**	Yes		No	HB	Initials
Comments: All GC/MS internal standards were within method criteria for the samples validated.						
19. Were internal standards within method criteria for GS/MS sample analyses?	**X**	Yes		No	HB	Initials
Comments: All GC/MS internal standards were within method criteria for the samples validated.						
20. Were inorganic system performance criteria met?	**X**	Yes		No	HB	Initials
Comments: Inorganic analyses were not performed.						
21. Were blind field duplicates collected? If so, discuss the precision (RPD) of the results.	**X**	Yes		No	HB	Initials
Comments: RPD's exceeded the 30% advisory limit for variation between primary and duplicate for the samples as bolded in following page						
22. Were qualitative criteria for organic target analyte identification met?	**X**	Yes		No	HB	Initials
Comments: All qualitative criteria for organic target analyte identification were met.						
23. Were 100% of the EDD concentrations and reporting limits compared to the hardcopy data reports?	**X**	Yes		No	HB	Initials
Comments:						

Appendix F - Data Validation
Field Duplicate Comparisons
February 20th-27th, 2018

Parameter	MW-205D-20180226-01		DUP-5-20180226-01		RPD(%)
Benzene	6100	µg/L	6200	µg/L	2
Ethylbenzene	1600	µg/L	1600	µg/L	0
Xylenes, Total	620	µg/L	640	µg/L	3
Naphthalene	3300	ug/L	4000	ug/L	19
Acenaphthene	110	µg/L	110	µg/L	0
Fluorene	26	µg/L	27	ug/L	4
Phenanthrene	26	µg/L	28	µg/L	7
Anthracene	4.6	µg/L	5.50	µg/L	18
Fluoranthene	1.2	µg/L	1.50	µg/L	22
Pyrene	1.5	µg/L	1.90	µg/L	24
Methane	4600	mg/L	3500	mg/L	27
Ferrous Iron	1.27	mg/L	3.99	mg/L	103
Cyanide, Total	0.013	mg/L	0.02	mg/L	27
Barium	4.17	mg/L	4.24	mg/L	2
Iron	6.73	mg/L	6.76	mg/L	0

Parameter	MW-204D-20180222-01		DUP-4-20180222-01		RPD(%)
Benzene	500	µg/L	550	µg/L	10
Ethylbenzene	520	µg/L	570	µg/L	9
Xylenes, Total	41	µg/L	42	µg/L	2
Sulfide	16.4	ug/L	BRL	ug/L	NC
Naphthalene	1300	ug/L	2300	ug/L	56
Acenaphthylene	2.30	µg/L	3.7	µg/L	47
Acenaphthene	40	µg/L	67	µg/L	50
Fluorene	12	µg/L	20	ug/L	50
Phenanthrene	11	µg/L	18	µg/L	48
Anthracene	2.2	µg/L	3.70	µg/L	51
Fluoranthene	2.6	µg/L	4.20	µg/L	47
Pyrene	3.4	µg/L	5.70	µg/L	51
Benz(a)anthracene	0.067	µg/L	0.11	µg/L	49
Chrysene	0.056	µg/L	0.10	µg/L	53
Methane	950	mg/L	840	mg/L	12
Ferrous Iron	1.04	mg/L	0.70	mg/L	39
Barium	5.34	mg/L	5.28	mg/L	1
Iron	2.83	mg/L	2.82	mg/L	0
Nickel	0.0777	mg/L	0.08	mg/L	3

Appendix F - Data Validation
Field Duplicate Comparisons
February 20th-27th, 2018

Parameter	MW-306D-20180221-01		DUP-1-20180221-01		RPD(%)
Benzene	8	µg/L	8.4	µg/L	5
Acenaphthene	0.76	µg/L	0.55	µg/L	32
Fluorene	0.39	µg/L	0.28	ug/L	33
Phenanthrene	0.39	µg/L	0.320	µg/L	20
Anthracene	0.09	µg/L	BRL	µg/L	NC
Pyrene	0.13	µg/L	0.11	µg/L	17
Methane	16	mg/L	18.00	mg/L	12
Barium	0.101	mg/L	0.10	mg/L	2
Chromium	0.0225	mg/L	0.02	mg/L	2
Copper	0.0328	mg/L	0.03	mg/L	2
Nickel	0.0233	mg/L	0.04	mg/L	57

APPENDIX G – CD ONLY

Historical Groundwater Results

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	AMW-1 (Abandoned)											
				04/28/15	08/05/13	02/04/13	11/05/12	08/06/12	05/14/12	02/08/12	11/15/11	08/09/11	05/02/11	02/17/11
Field Groundwater Quality Parameters															
pH	SU	N/A	N/A	5.96	6.58	6.15	6.23	5.92	6.21	6.10	6.38	6.46	6.52	6.90
Specific Conductance	µS/cm	N/A	N/A	944	1371	581	524	605	584	496	593	597	655	589
Temperature	°Celsius	N/A	N/A	21.15	27.21	15.66	22.66	26.50	22.67	21.37	24.40	27.69	21.87	21.53
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	0.67	0.18	0.20	1.40	1.16	0.38	1.35	0.76	0.32	0.22	0.08
ORP	mV	N/A	N/A	-42.5	160.5	129.5	25.0	36.0	25.9	54.4	-68.2	126.9	-364.1	-490.3
Turbidity	NTU	N/A	N/A	27.5	7.41	4.97	10.38	284	17.4	23	864	790	234	74
Laboratory Results - Natural Attenuation Parameters															
Nitrogen, Nitrate	mg/L	N/A	N/A	--	--	< 0.050	--	--	--	**0.75**	--	--	--	< 0.050
Sulfate	mg/L	N/A	N/A	--	--	**95**	--	--	--	**62**	--	--	--	**23**
Sulfide	mg/L	N/A	N/A	--	--	< 1.0	--	--	--	**1.5**	--	--	--	< 1.0
Ferrous Iron	mg/L	N/A	N/A	--	--	0.47 HF	--	--	--	< 0.10 HF	--	--	--	**2.2** HF
Total Iron	mg/L	N/A	N/A	--	--	**1.2**	--	--	--	**4.2**	--	--	--	**14**
Carbon Dioxide	mg/L	N/A	N/A	--	--	**120**	--	--	--	**2.1**	--	--	--	**0.67**
Methane	mg/L	N/A	N/A	--	--	**1.3**	--	--	--	< 0.58	--	--	--	**430**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	**15**	--	--	--	**5.5**	--	--	--	**4.5**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	**5.1**	--	--	--	**1.8**	--	--	--	**1.5**
Laboratory Results - Organic Constituents															
Volatile Organic Compounds															
Benzene	µg/L	5*	9	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	**22**	**51**	**170**	**300**
Carbon Disulfide	µg/L	329	1,700	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 5.0	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	**11**	**10**	**34**	**42**
Toluene	µg/L	1,000*	1,100	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10
Total Xylenes	µg/L	31,000	200,000	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	**17**	**26**
Semivolatile Organic Compounds															
Acenaphthene	µg/L	2,000*	6,100	< 10	< 10	< 0.23	0.28	1.1	1.7	--	--	--	--	--
Acenaphthylene	µg/L	470	3,100	< 10	< 10	< 0.23	< 0.21	< 0.19	< 0.19	--	--	--	--	--
Anthracene	µg/L	4,700	31,000	< 10	< 10	< 0.23	< 0.21	< 0.19	< 0.19	--	--	--	--	--
Benzo[a]anthracene	µg/L	1.17	3.92	< 0.050	< 0.20	< 0.23	< 0.21	< 0.19	< 0.19	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	< 0.050	< 0.20	< 0.23	< 0.21	< 0.19	< 0.19	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	< 0.10	< 0.20	< 0.23	< 0.21	< 0.19	< 0.19	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	< 10	< 10	< 0.23	< 0.21	< 0.19	< 0.19	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 10	< 10	< 0.23	< 0.21	< 0.19	< 0.19	--	--	--	--	--
Chrysene	µg/L	117	392	< 10	< 10	< 0.23	< 0.21	< 0.19	< 0.19	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 0.10	< 0.20	< 0.23	< 0.21	< 0.19	< 0.19	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	< 10	< 10	< 2.3	< 2.1	< 1.9	< 1.9	--	--	--	--	--
Fluoranthene	µg/L	1,000*	4,100	< 10	< 10	< 0.23	< 0.21	< 0.19	< 0.19	--	--	--	--	--
Fluorene	µg/L	1,000*	4,100	< 10	< 10	< 0.23	**0.65**	**0.59**	**0.33**	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 0.050	< 0.20	< 0.23	< 0.21	< 0.19	< 0.19	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	< 10	< 10	< 2.3	< 2.1	< 1.9	< 1.9	--	--	--	--	--
3 & 4 Methylphenol	µg/L	78	510	< 10	< 10	< 2.3	< 2.1	< 1.9	< 1.9	--	--	--	--	--
Naphthalene	µg/L	20*	20*	< 10	< 10	< 0.23	< 0.21	< 0.19	< 0.19	< 5.0	< 5.0	< 5.0 *	**62**	**110**
Phenanthrene	µg/L	470	3,100	< 10	< 10	< 0.23	< 0.21	< 0.19	< 0.19	--	--	--	--	--
Phenol	µg/L	9,390	61,000	< 10	< 10	< 1.2	< 1.1	< 0.19	< 0.19	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	< 10	< 10	< 0.23	0.22	0.26	< 0.96	--	--	--	--	--
Laboratory Results - Inorganic Constituents															
Antimony	µg/L	6.3	400	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--
Arsenic	µg/L	50*	50*	< 50	< 50	< 20	< 20	< 20	< 20	--	--	--	--	--
Barium	µg/L	2,000	7,200	**59.6**	**105**	75	95	**120**	**10**	**94**	**230**	**140**	**190**	**170**
Beryllium	µg/L	31	200	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--
Cadmium	µg/L	7.8	51	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--
Chromium	µg/L	100	310	< 10	< 10	< 10	< 10	**13**	< 10	< 10	22	< 10	< 10	< 10
Copper	µg/L	630	4,100	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Lead	µg/L	15*	15*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	23	< 10	< 10	< 10
Nickel	µg/L	100	2,000	< 20	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Zinc	µg/L	4,700	31,000	< 20	< 20	< 20	< 20	**20**	**21**	--	--	--	--	--
Mercury	µg/L	2*	2*	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--
Total Cyanide	µg/L	310	2,000	< 0.10	**35**	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	AMW-2												
				02/21/17	08/23/16	04/27/15	08/05/13	02/04/13	11/05/12	08/06/12	05/14/12	02/07/12	11/15/11	08/09/11	05/02/11	02/16/11
Field Groundwater Quality Parameters																
pH	SU	N/A	N/A	6.48	6.24	5.92	6.52	6.30	5.96	5.36	6.00	5.99	6.02	5.74	5.84	5.98
Specific Conductance	µS/cm	N/A	N/A	202.37	258.2	309	352	401	502	492	403	388	544	717	507	414
Temperature	°Celsius	N/A	N/A	18.85	21.28	20.57	25.48	18.26	23.57	28.97	24.27	20.89	22.06	25.39	20.39	18.19
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	2.81	0.43	2.25	0.41	3.40	0.34	1.51	0.33	0.56	0.61	1.65	0.38	1.86
ORP	mV	N/A	N/A	111.74	-22.0	-39.3	130.9	106.6	52.9	48.6	-8.3	-47.9	150.8	147.0	-55.1	61.1
Turbidity	NTU	N/A	N/A	2.33	4.45	3.42	0.99	5.90	4.41	6.39	1.81	20.8	9.77	290	8.31	9.70
Laboratory Results - Natural Attenuation Parameters																
Nitrogen, Nitrate	mg/L	N/A	N/A	--	--	--	--	**4.0**	--	--	--	**1.3**	--	--	--	**4.9**
Sulfate	mg/L	N/A	N/A	--	--	--	--	**60**	--	--	--	**65**	--	--	--	**100**
Sulfide	mg/L	N/A	N/A	--	--	--	--	< 1.0	--	--	--	< 1.0	--	--	--	< 1.0
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	**2.3** HF	--	--	--	**21** HF	--	--	--	**7.4** HF
Total Iron	mg/L	N/A	N/A	--	--	--	--	**4.2**	--	--	--	**25**	--	--	--	**8.2**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	**97**	--	--	--	**1.7**	--	--	--	**1.2**
Methane	mg/L	N/A	N/A	--	--	--	--	**17**	--	--	--	**39**	--	--	--	**30**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	**18**	--	--	--	**4.9**	--	--	--	**4.1**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	**6.2**	--	--	--	**1.5**	--	--	--	**1.4**
Laboratory Results - Organic Constituents																
Volatile Organic Compounds																
Benzene	µg/L	5*	9	<5.0	<5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	<5.0	<5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 5.0	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	<5.0	<5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	<5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	<5.0	<5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																
Acenaphthene	µg/L	2,000*	6,100	< 0.50	<0.50	< 10	< 10	**2.8**	**4.2**	**8.4**	**12**	--	--	--	--	--
Acenaphthylene	µg/L	470	3,100	< 1.0	<1.0	< 10	< 10	**0.29**	**0.52**	**0.97**	**1.2**	--	--	--	--	--
Anthracene	µg/L	4,700	31,000	< 0.050	<0.050	< 10	< 10	< 0.22	< 0.22	< 0.20	< 0.22	--	--	--	--	--
Benzo[a]anthracene	µg/L	1.17	3.92	**0.19**	<0.050	< 0.050	< 0.20	< 0.22	< 0.22	< 0.20	< 0.22	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	**0.12**	<0.050	< 0.050	< 0.20	< 0.22	< 0.22	< 0.20	< 0.22	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	**0.14**	<0.10	< 0.10	< 0.20	< 0.22	< 0.22	< 0.20	< 0.22	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	**0.15**	<0.10	< 10	< 10	< 0.22	< 0.22	< 0.20	< 0.22	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	**0.14**	<0.050	< 10	< 10	< 0.22	< 0.22	< 0.20	< 0.22	--	--	--	--	--
Chrysene	µg/L	117	392	**0.20**	<0.050	< 10	< 10	< 0.22	< 0.22	< 0.20	< 0.22	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	**0.11**	<0.10	< 0.10	< 0.20	< 0.22	< 0.22	< 0.20	< 0.22	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	< 10	<10	< 10	< 10	< 2.2	< 2.2	< 2.0	< 0.22	--	--	--	--	--
Fluoranthene	µg/L	1,000*	4,100	< 0.10	<0.10	< 10	< 10	< 0.22	**0.38**	**0.49**	< 2.2	--	--	--	--	--
Fluorene	µg/L	1,000*	4,100	< 0.10	<0.10	< 10	< 10	**0.74**	**1.1**	**2.6**	**0.33**	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	**0.13**	<0.050	< 0.050	< 0.20	< 0.22	< 0.22	< 0.20	< 0.22	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	< 10	<10	< 10	< 10	< 2.2	< 2.2	< 2.0	< 2.2	--	--	--	--	--
3 & 4 Methylphenol	µg/L	78	510	< 10	<10	< 10	< 10	< 2.2	< 2.2	< 2.0	< 2.2	--	--	--	--	--
Naphthalene	µg/L	20*	20*	< 0.50	<0.50	< 10	< 10	< 0.22	< 0.22	< 0.20	< 0.22	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Phenanthrene	µg/L	470	3,100	< 0.050	<0.050	< 10	< 10	< 0.22	< 0.22	< 0.20	< 0.22	--	--	--	--	--
Phenol	µg/L	9,390	61,000	< 10	<10	< 10	< 10	< 1.1	< 1.1	< 0.98	< 1.1	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	**0.052**	<0.050	< 10	< 10	**0.25**	**0.87**	**0.73**	**1.4**	--	--	--	--	--
Laboratory Results - Inorganic Constituents																
Antimony	µg/L	6.3	400	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--
Arsenic	µg/L	50*	50*	--	< 50	< 50	< 50	< 20	< 20	< 20	< 20	--	--	--	--	--
Barium	µg/L	2,000	7,200	--	**104**	**111**	**125**	**76**	**66**	**64**	**51**	**48**	**61**	**39**	**54**	**52**
Beryllium	µg/L	31	200	--	<10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	**5.3**	**7.0**	**13.9**	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--
Chromium	µg/L	100	310	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	--	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Lead	µg/L	15*	15*	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	< 20	< 20	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Zinc	µg/L	4,700	31,000	--	**66.3**	**91.4**	< 20	**245**	< 20	< 20	< 20	--	--	--	--	--
Mercury	µg/L	2*	2*	--	<0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--
Total Cyanide	µg/L	310	2,000	--	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10

Notes:
Analyte was detected above laboratory detection limit
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	AMW-3 (Abandoned)											
				08/05/13	02/11/13	02/13 DUP	11/05/12	08/06/12	05/15/12	05/12 DUP	02/07/12	11/17/11	08/10/11	05/03/11	02/17/11
Field Groundwater Quality Parameters															
pH	SU	N/A	N/A	6.25	6.56	6.56	5.90	5.20	5.86	5.86	6.19	6.08	5.86	6.02	6.43
Specific Conductance	µS/cm	N/A	N/A	746	613	613	647	682	740	740	784	527	509	782	674
Temperature	°Celsius	N/A	N/A	25.67	19.33	19.33	22.73	25.72	24.84	24.84	19.26	23.02	24.46	19.79	18.59
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	1.06	4.73	4.73	0.90	1.72	0.28	0.28	4.50	0.51	0.93	3.83	2.68
ORP	mV	N/A	N/A	142.8	114.3	114.3	153.6	189.5	123.5	123.5	-8.4	5.0	329.4	-29.2	0.0
Turbidity	NTU	N/A	N/A	0.97	1.79	1.79	3.25	281	8.09	8.09	3.32	292	>1000	13.2	8.42
Laboratory Results - Natural Attenuation Parameters															
Nitrogen, Nitrate	mg/L	N/A	N/A	--	**1.3**	**1.4**	**--**	--	--	--	**6.1**	--	--	--	**5.4**
Sulfate	mg/L	N/A	N/A	--	**150**	**150**	**--**	--	--	--	**280**	--	--	--	**220**
Sulfide	mg/L	N/A	N/A	--	< 1.0	< 1.0	**--**	--	--	--	**1.4**	--	--	--	< 1.0
Ferrous Iron	mg/L	N/A	N/A	--	< 0.10 HF	< 0.10 HF	**--**	--	--	--	< 0.10 HF	--	--	--	< 0.010 HF
Total Iron	mg/L	N/A	N/A	--	< 0.10	< 0.10	**--**	--	--	--	< 0.10	--	--	--	**0.62**
Carbon Dioxide	mg/L	N/A	N/A	--	**61**	**66**	**--**	--	--	--	**1.0**	--	--	--	**0.91**
Methane	mg/L	N/A	N/A	--	< 0.58	< 0.58	**--**	--	--	--	< 0.58	--	--	--	**1.1**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	**--**	--	--	--	**5.0**	--	--	--	**4.5**
Dissolved Oxygen	mg/L	N/A	N/A	--	**8.9**	**8.7**	**--**	--	--	--	**1.8**	--	--	--	**1.5**
Laboratory Results - Organic Constituents															
Volatile Organic Compounds															
Benzene	µg/L	5*	9	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds															
Acenaphthene	µg/L	2,000*	6,100	< 10	< 0.19	< 0.20	< 0.23	< 0.20	< 0.23	< 0.21	--	--	--	--	--
Acenaphthylene	µg/L	470	3,100	< 10	< 0.19	< 0.20	< 0.23	< 0.20	< 0.23	< 0.21	--	--	--	--	--
Anthracene	µg/L	4,700	31,000	< 10	< 0.19	< 0.20	< 0.23	< 0.20	< 0.23	< 0.21	--	--	--	--	--
Benzo[a]anthracene	µg/L	1.17	3.92	< 0.20	< 0.19	< 0.20	< 0.23	< 0.20	**0.28**	< 0.21	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	< 0.20	< 0.19	< 0.20	< 0.23	< 0.20	**0.25**	< 0.21	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	< 0.20	< 0.19	< 0.20	< 0.23	< 0.20	< 0.23	< 0.21	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	< 10	< 0.19	< 0.20	< 0.23	< 0.20	< 0.23	< 0.21	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 10	< 0.19	< 0.20	< 0.23	< 0.20	< 0.23	< 0.21	--	--	--	--	--
Chrysene	µg/L	117	392	< 10	< 0.19	< 0.20	< 0.23	< 0.20	**0.35**	< 0.21	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 0.20	< 0.19	< 0.20	< 0.23	< 0.20	< 0.23	< 0.21	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	< 10	< 1.9	< 2.0	< 2.3	< 2.0	< 2.3	< 2.1	--	--	--	--	--
Fluoranthene	µg/L	1,000*	4,100	< 10	< 0.19	< 0.20	< 0.23	< 0.20	**0.27**	< 0.21	--	--	--	--	--
Fluorene	µg/L	1,000*	4,100	< 10	< 0.19	< 0.20	< 0.23	< 0.20	< 0.23	< 0.21	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 0.20	< 0.19	< 0.20	< 0.23	< 0.20	< 0.23	< 0.21	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	< 10	< 1.9	< 2.0	< 2.3	< 2.0	< 2.3	< 2.1	--	--	--	--	--
3 & 4 Methylphenol	µg/L	78	510	< 10	< 1.9	< 2.0	< 2.3	< 2.0	< 2.3	< 2.1	--	--	--	--	--
Naphthalene	µg/L	20*	20*	< 10	**0.59**	< 0.20	< 0.23	< 0.20	< 0.23	< 0.21	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Phenanthrene	µg/L	470	3,100	< 10	< 0.19	< 0.20	< 0.23	< 0.20	< 0.23	< 0.21	--	--	--	--	--
Phenol	µg/L	9,390	61,000	< 10	< 0.97	< 0.99	< 1.2	< 0.98	< 1.1	< 1.0	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	< 10	< 0.19	< 0.20	< 0.23	< 0.20	**0.58**	**0.22**	--	--	--	--	--
Laboratory Results - Inorganic Constituents															
Antimony	µg/L	6.3	400	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--
Arsenic	µg/L	50*	50*	< 50	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--
Barium	µg/L	2,000	7,200	**60.1**	**42**	**44**	**38**	**90**	**36**	**36**	**45**	**78**	**460**	**57**	**93**
Beryllium	µg/L	31	200	< 10.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--
Cadmium	µg/L	7.8	51	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--
Chromium	µg/L	100	310	< 10.0	< 10	< 10	< 10	**19**	< 10	< 10	< 10	< 10	**42**	< 10	< 10
Copper	µg/L	630	4,100	< 10.0	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	**320**	< 20	< 20
Lead	µg/L	15*	15*	< 10.0	< 10	< 10	< 10	**20**	< 10	< 10	< 10	**25**	**560**	< 10	< 10
Nickel	µg/L	100	2,000	< 20.0	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Zinc	µg/L	4,700	31,000	< 20.0	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--
Mercury	µg/L	2*	2*	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--
Total Cyanide	µg/L	310	2,000	**16**	< 10	< 10	**26**	**22**	**21**	**21**	< 10	--	--	--	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	AMW-4 (Abandoned)									
				08/07/13	03/14/13	11/06/12	08/08/12	05/15/12	02/08/12	11/17/11	08/11/11	05/04/11	02/18/11
Field Groundwater Quality Parameters													
pH	SU	N/A	N/A	6.59	6.90	6.59	6.13	6.44	6.71	6.66	6.71	6.70	6.87
Specific Conductance	µS/cm	N/A	N/A	902	960	754	884	953	738	723	817	849	559
Temperature	°Celsius	N/A	N/A	24.10	17.61	22.32	25.18	23.58	18.59	24.48	23.32	18.06	19.26
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	0.65	2.91	2.62	0.33	0.78	1.86	1.00	0.23	0.52	0.50
ORP	mV	N/A	N/A	-73.9	63.6	-106.1	-82.9	74.1	-27.4	-96.7	150.2	-92.4	-370.1
Turbidity	NTU	N/A	N/A	7.84	8.72	2087	271	103	211	123	>1000	107	>999
Laboratory Results - Natural Attenuation Parameters													
Nitrogen, Nitrate	mg/L	N/A	N/A	--	**14**	--	--	--	**0.59**	--	--	--	**9.6**
Sulfate	mg/L	N/A	N/A	--	**138**	--	--	--	**47**	--	--	--	**55**
Sulfide	mg/L	N/A	N/A	--	< 1.0	--	--	--	< 1.0	--	--	--	**1.5**
Ferrous Iron	mg/L	N/A	N/A	--	< 0.10 HF	--	--	--	< 0.10 HF	--	--	--	< 0.010 HF
Total Iron	mg/L	N/A	N/A	--	**0.26**	--	--	--	**1.0**	--	--	--	**8.0**
Carbon Dioxide	mg/L	N/A	N/A	--	**38**	--	--	--	**1.5**	--	--	--	**0.41**
Methane	mg/L	N/A	N/A	--	**37**	--	--	--	**82**	--	--	--	**140**
Dissolved Nitrogen	mg/L	N/A	N/A	--	**16**	--	--	--	**5.5**	--	--	--	**4.7**
Dissolved Oxygen	mg/L	N/A	N/A	--	**6.4**	--	--	--	**1.7**	--	--	--	**1.7**
Laboratory Results - Organic Constituents													
Volatile Organic Compounds													
Benzene	µg/L	5*	9	**1,000**	**5.1**	**5,400**	**1,800**	**1,300**	**720**	**4,900**	**5,000**	**3,200**	**1,700**
Carbon Disulfide	µg/L	329	1,700	< 5.0	< 2.0	< 20	< 20	< 20	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	**230**	<1.0	**1200**	**430**	**300**	**140**	**640**	**450**	**890**	**290**
Toluene	µg/L	1,000*	1,100	**190**	**1.6**	**4,400**	**1,200**	**630**	**610**	**4,200**	**4,100**	**3,000**	**1,800**
Total Xylenes	µg/L	31,000	200,000	**480**	**3.1**	**4,200**	**990**	**570**	**780**	**3,200**	**2,700**	**4,600**	**1,400**
Semivolatile Organic Compounds													
Acenaphthene	µg/L	2,000*	6,100	< 10	<0.19	**34**	**23**	**27**	--	--	--	--	--
Acenaphthylene	µg/L	470	3,100	< 10	<0.19	**54**	**42**	**35**	--	--	--	--	--
Anthracene	µg/L	4,700	31,000	< 10	<0.19	< 0.10	**4.0**	**1.9**	--	--	--	--	--
Benzo[a]anthracene	µg/L	1.17	3.92	< 0.20	<0.19	< 0.10	< 2.1	< 1.1	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	< 0.20	<0.19	< 0.10	< 2.1	< 1.1	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	< 0.20	<0.19	< 0.10	< 2.1	< 1.1	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	< 10	<0.19	< 0.10	< 2.1	< 1.1	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 10	<0.19	< 0.10	< 2.1	< 1.1	--	--	--	--	--
Chrysene	µg/L	117	392	< 10	<0.19	< 0.10	< 2.1	< 1.1	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 0.20	<0.19	< 0.10	< 2.1	< 1.1	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	< 10	<1.9	**130**	< 21	< 11	--	--	--	--	--
Fluoranthene	µg/L	1,000*	4,100	< 10	<0.19	< 0.10	**3.2**	< 1.1	--	--	--	--	--
Fluorene	µg/L	1,000*	4,100	< 10	<0.19	**21**	**17**	**15**	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 0.20	<0.19	< 0.10	< 2.1	< 1.1	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	< 10	<1.9	< 100	**29**	< 11	--	--	--	--	--
3 & 4 Methylphenol	µg/L	78	510	< 10	<1.9	< 100	< 21	< 11	--	--	--	--	--
Naphthalene	µg/L	20*	20*	**150**	<0.19	**1,800**	**690** D	**420**	**510**	**1,900**	**1,100**	**1,200**	**530**
Phenanthrene	µg/L	470	3,100	< 10	<0.19	**42**	**46**	**25**	--	--	--	--	--
Phenol	µg/L	9,390	61,000	< 10	<0.96	**960**	**47**	**15**	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	< 10	<0.19	< 0.10	**3.9**	**1.3**	--	--	--	--	--
Laboratory Results - Inorganic Constituents													
Antimony	µg/L	6.3	400	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--
Arsenic	µg/L	50*	50*	< 50	< 20	< 20	**56**	< 20	--	--	--	--	--
Barium	µg/L	2,000	7,200	**127**	**130**	**340**	**1,100**	**170**	**250**	**320**	**620**	**170**	**120**
Beryllium	µg/L	31	200	< 10	< 4.0	< 4.0	**9.9**	< 4.0	--	--	--	--	--
Cadmium	µg/L	7.8	51	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--
Chromium	µg/L	100	310	< 10	< 10	< 10	**430**	< 10	< 10	< 10	**22**	< 10	< 10
Copper	µg/L	630	4,100	< 10	< 20	< 20	**310**	< 20	< 20	< 20	**91**	< 20	< 20
Lead	µg/L	15*	15*	< 10	< 10	< 10	**400**	< 10	< 10	< 10	**190**	< 10	< 10
Nickel	µg/L	100	2,000	< 20	< 40	< 40	**120**	< 40	< 40	< 40	< 40	< 40	< 40
Zinc	µg/L	4,700	31,000	< 20	< 20	< 20	**440**	< 20	--	--	--	--	--
Mercury	µg/L	2*	2*	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--
Total Cyanide	µg/L	310	2,000	< 10	< 10	< 10	**10**	< 10	< 10	< 10	--	--	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	AMW-5 (Abandoned)												
				08/07/13	03/13/13	11/06/12	08/07/12	05/15/12	02/08/12	11/17/11	DUP 11/17	08/10/11	08/11 DUP	05/04/11	02/22/11
Field Groundwater Quality Parameters																
pH	SU	N/A	N/A	6.35	6.39	6.27	6.31	6.38	6.20	6.52	6.52	6.41	6.41	6.46	6.62
Specific Conductance	µS/cm	N/A	N/A	646	433	490	520	582	354	479	479	536	536	526	383
Temperature	°Celsius	N/A	N/A	21.95	17.76	22.09	24.69	23.75	19.55	21.24	21.24	21.70	21.70	18.86	19.99
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	0.48	0.40	1.71	3.63	0.59	1.62	0.35	0.35	0.25	0.25	0.12	0.37
ORP	mV	N/A	N/A	-90.7	-225.5	-73.9	-21.1	-77.9	-19.9	-93.5	-93.5	151.8	151.8	-100.8	-356.3
Turbidity	NTU	N/A	N/A	4.46	8.82	5.10	2.84	1.45	1.48	9.86	9.86	>1000	>1000	36.9	>999
Laboratory Results - Natural Attenuation Parameters																
Nitrogen, Nitrate	mg/L	N/A	N/A	--	< 0.050	--	--	--	< 0.050	--	--	--	--	--	< 0.050
Sulfate	mg/L	N/A	N/A	--	**6.0**	--	--	--	< 5.0	--	--	--	--	--	< 5.0
Sulfide	mg/L	N/A	N/A	--	< 1.0	--	--	--	< 1.0	--	--	--	--	--	< 1.0
Ferrous Iron	mg/L	N/A	N/A	--	**0.58** HF	--	--	--	**5.6** HF	--	--	--	--	--	**4.1** HF
Total Iron	mg/L	N/A	N/A	--	**14**	--	--	--	**11**	--	--	--	--	--	**22**
Carbon Dioxide	mg/L	N/A	N/A	--	**100**	--	--	--	**2.0**	--	--	--	--	--	**0.92**
Methane	mg/L	N/A	N/A	--	**620**	--	--	--	**220**	--	--	--	--	--	**490**
Dissolved Nitrogen	mg/L	N/A	N/A	--	**19**	--	--	--	**5.3**	--	--	--	--	--	**3.0**
Dissolved Oxygen	mg/L	N/A	N/A	--	**5.1**	--	--	--	**1.4**	--	--	--	--	--	**1.0**
Laboratory Results - Organic Constituents																
Volatile Organic Compounds																
Benzene	µg/L	5*	9	**840**	**540**	**910**	**390**	**680**	**640**	**520**	**610**	**890**	**960**	**720**	**900**
Carbon Disulfide	µg/L	329	1,700	< 5.0	< 10	< 10	< 10	< 20	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	**700**	**280**	**1,000**	**500**	**460**	**220**	**480**	**550**	**830**	**680**	**580**	**920**
Toluene	µg/L	1,000*	1,100	**400**	**430**	**1,200**	**340**	**630**	**640**	**520**	**670**	**1,700**	**1,600**	**870**	**2,000**
Total Xylenes	µg/L	31,000	200,000	**1,300**	**2,200**	**4,100**	**1,400**	**2,300**	**2,400**	**1,500**	**1,700**	**3,600**	**2,900**	**3,000**	**4,000**
Semivolatile Organic Compounds																
Acenaphthene	µg/L	2,000*	6,100	**28**	**37**	**40**	**32**	**51**	--	--	--	--	--	--	--
Acenaphthylene	µg/L	470	3,100	**33**	**40**	**43**	**21**	**48**	--	--	--	--	--	--	--
Anthracene	µg/L	4,700	31,000	< 10	**4.5**	< 20	< 1.9	< 23	--	--	--	--	--	--	--
Benzo[a]anthracene	µg/L	1.17	3.92	**1.2**	< 3.9	< 20	< 1.9	< 23	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	**0.56**	< 3.9	< 20	< 1.9	< 23	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	**1.3**	< 3.9	< 20	< 1.9	< 23	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	< 10	< 3.9	< 20	< 1.9	< 23	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 10	< 3.9	< 20	< 1.9	< 23	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	< 10	< 3.9	< 20	< 1.9	< 23	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	**0.21**	< 3.9	< 20	< 1.9	< 23	--	--	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	**62**	< 39	< 200	120	< 230	--	--	--	--	--	--	--
Fluoranthene	µg/L	1,000*	4,100	< 10	< 3.9	< 20	< 1.9	< 23	--	--	--	--	--	--	--
Fluorene	µg/L	1,000*	4,100	**14**	**22**	**26**	**17**	**28**	--	--	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	**0.37**	< 3.9	< 20	< 1.9	< 23	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	**12**	< 39	< 200	< 19	< 230	--	--	--	--	--	--	--
3 & 4 Methylphenol	µg/L	78	510	**17**	< 39	< 200	**38**	< 230	--	--	--	--	--	--	--
Naphthalene	µg/L	20*	20*	**1,400**	**950**	**2,500**	**440**	**2,700**	**1,800**	**1,600**	**1,300**	**2,500 ***	**2,600**	**3,600**	**2,900**
Phenanthrene	µg/L	470	3,100	**42**	**70**	**130**	**38**	**62**	--	--	--	--	--	--	--
Phenol	µg/L	9,390	61,000	< 10	< 20	< 98	< 9.5	< 110	--	--	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	< 10	< 3.9	< 20	**2.1**	< 23	--	--	--	--	--	--	--
Laboratory Results - Inorganic Constituents																
Antimony	µg/L	6.3	400	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--
Arsenic	µg/L	50*	50*	< 50	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--
Barium	µg/L	2,000	7,200	**318**	**240**	**520**	**150**	**220**	**330**	**330**	**270**	**460**	**470**	**290**	**400**
Beryllium	µg/L	31	200	< 10	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--
Chromium	µg/L	100	310	< 10	< 10	**14**	< 10	< 10	< 10	< 10	< 10	**12**	**44**	**27**	**12**
Copper	µg/L	630	4,100	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	22	< 20	< 20
Lead	µg/L	15*	15*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	33	< 10	< 10
Nickel	µg/L	100	2,000	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Zinc	µg/L	4,700	31,000	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--
Mercury	µg/L	2*	2*	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--	--
Total Cyanide	µg/L	310	2,000	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	--	--	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	AMW-6												
				08/15/17	02/21/17	08/22/16	08/05/13	02/12/13	11/05/12	08/06/12	05/14/12	02/09/12	11/18/11	08/08/11	05/03/11	02/17/11
Field Groundwater Quality Parameters																
pH	SU	N/A	N/A	6.41	6.45	5.66	7.23	5.97	5.62	5.79	5.71	5.89	6.20	5.65	5.94	6.02
Specific Conductance	µS/cm	N/A	N/A	707.59	599.4	527.5	602	492	516	541	499	426	507	597	736	441
Temperature	°Celsius	N/A	N/A	27.82	21.49	28.57	26.27	17.92	21.10	25.98	20.74	17.47	16.18	24.70	18.61	17.55
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	1.98	4.68	0.21	0.16	1.71	1.14	0.75	0.80	1.32	0.40	0.47	0.44	4.78
ORP	mV	N/A	N/A	121.57	106.8	176.7	-5.6	-35.7	4.0	48.2	65.4	-6.5	0.1	-16.1	-39.8	-2.6
Turbidity	NTU	N/A	N/A	3.24	9.2	1.51	6.01	5.67	1291	9.7	9.27	9.08	8.94	4.22	23.8	121
Laboratory Results - Natural Attenuation Parameters																
Nitrogen, Nitrate	mg/L	N/A	N/A	--	--	--	--	< 0.050	--	--	--	< 0.050	--	--	--	< 0.050
Sulfate	mg/L	N/A	N/A	--	--	--	--	**140**	--	--	--	**120**	--	--	--	**130**
Sulfide	mg/L	N/A	N/A	--	--	--	--	< 1.0	--	--	--	< 1.0	--	--	--	< 1.0
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	**12** HF	--	--	--	**5.1** HF	--	--	--	**9.7** HF
Total Iron	mg/L	N/A	N/A	--	--	--	--	**13**	--	--	--	**6.0**	--	--	--	**16**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	**140**	--	--	--	**2.6**	--	--	--	**2.1**
Methane	mg/L	N/A	N/A	--	--	--	--	**23**	--	--	--	**20**	--	--	--	**15**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**4.6**	--	--	--	**3.0**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	**7.4**	--	--	--	**1.4**	--	--	--	**1.0**
Laboratory Results - Organic Constituents																
Volatile Organic Compounds																
Benzene	µg/L	5*	9	< 5.0	<5.0	<5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	< 5.0	<5.0	<5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 5.0	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	< 5.0	<5.0	<5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	< 5.0	<5.0	<5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	< 5.0	<5.0	<5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																
Acenaphthene	µg/L	2,000*	6,100	<0.50	<0.50	<0.50	< 10	**1.0**	**0.84**	**0.43**	**0.85**	--	--	--	--	--
Acenaphthylene	µg/L	470	3,100	<1.0	<1.0	<1.0	< 10	< 0.20	< 0.21	< 0.23	< 0.22	--	--	--	--	--
Anthracene	µg/L	4,700	31,000	<0.050	<0.050	<0.050	< 10	< 0.20	< 0.21	< 0.23	< 0.22	--	--	--	--	--
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	**0.019**	<0.050	< 0.20	< 0.20	< 0.21	< 0.23	**0.24**	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	**0.12**	<0.050	< 0.20	< 0.20	< 0.21	< 0.23	**0.22**	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	**0.12**	<0.10	< 0.20	< 0.20	< 0.21	< 0.23	**0.39**	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	**0.15**	<0.10	< 10	< 0.20	< 0.21	< 0.23	< 0.22	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	**0.14**	<0.050	< 10	< 0.20	< 0.21	< 0.23	< 0.22	--	--	--	--	--
Chrysene	µg/L	117	392	<0.050	**0.20**	<0.050	< 10	< 0.20	< 0.21	< 0.23	**0.26**	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	**0.11**	<0.10	< 0.20	< 0.20	< 0.21	< 0.23	< 0.22	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	<10	<10	<10	< 10	< 2.0	< 2.1	< 2.3	< 2.2	--	--	--	--	--
Fluoranthene	µg/L	1,000*	4,100	<0.10	<0.10	<0.10	< 10	< 0.20	< 0.21	< 0.23	**0.44**	--	--	--	--	--
Fluorene	µg/L	1,000*	4,100	<0.10	<0.10	<0.10	< 10	< 0.20	< 0.21	< 0.23	< 0.22	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	0.13	<0.050	< 0.20	< 0.20	< 0.21	< 0.23	< 0.22	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	<10	<10	<10	< 10	< 2.0	< 2.1	< 2.3	< 2.2	--	--	--	--	--
3 & 4 Methylphenol	µg/L	78	510	<10	<10	<10	< 10	< 2.0	< 2.1	< 2.3	< 2.2	--	--	--	--	--
Naphthalene	µg/L	20*	20*	<0.50	<0.50	<0.50	< 10	< 0.20	< 0.21	< 0.23	< 0.22	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Phenanthrene	µg/L	470	3,100	<0.050	<0.050	<0.050	< 10	< 0.20	< 0.21	< 0.23	< 0.22	--	--	--	--	--
Phenol	µg/L	9,390	61,000	<10	<10	<10	< 10	< 1.0	< 1.0	< 1.1	< 1.1	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	<0.050	**0.052**	<0.050	< 10	< 0.20	**0.23**	< 0.23	**0.48**	--	--	--	--	--
Laboratory Results - Inorganic Constituents																
Antimony	µg/L	6.3	400	--	--	< 20	< 20.0	< 20	< 20	< 20	< 20	--	--	--	--	--
Arsenic	µg/L	50*	50*	--	--	< 50	< 50.0	< 20	< 20	< 20	< 20	--	--	--	--	--
Barium	µg/L	2,000	7,200	--	--	**39.3**	**36.6**	**63**	**60**	**54**	**51**	**62**	**71**	**74**	**66**	**81**
Beryllium	µg/L	31	200	--	--	< 10	< 10.0	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--
Chromium	µg/L	100	310	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	--	--	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Lead	µg/L	15*	15*	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	--	< 20	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Zinc	µg/L	4,700	31,000	--	--	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--
Mercury	µg/L	2*	2*	--	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--
Total Cyanide	µg/L	310	2,000	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10

Notes:
Analyte was detected above laboratory detection limit
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	AMW-7 (Abandoned)									
				08/07/13	03/14/13	11/07/12	8/7/2012	05/16/12	02/08/12	11/17/11	08/09/11	05/04/11	02/22/11
Field Groundwater Quality Parameters													
pH	SU	N/A	N/A	6.81	6.35	6.21	6.15	6.27	6.10	6.22	6.19	6.18	6.37
Specific Conductance	µS/cm	N/A	N/A	469	439	364	493	399	292	326	333	468	256
Temperature	°Celsius	N/A	N/A	24.13	16.90	17.93	27.64	22.42	18.00	19.63	22.44	17.68	17.44
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	0.59	1.14	7.13	3.99	1.58	5.50	0.53	0.41	0.31	0.78
ORP	mV	N/A	N/A	-43.9	34.9	-45.2	5.0	-100.3	16.0	-74.5	142.5	-97.3	-243.5
Turbidity	NTU	N/A	N/A	1.72	6.82	10	161	22.3	57.3	511	>1000	452	>999
Laboratory Results - Natural Attenuation Parameters													
Nitrogen, Nitrate	mg/L	N/A	N/A	--	**0.19**	--	--	--	**0.47**	--	--	--	**0.22**
Sulfate	mg/L	N/A	N/A	--	**78**	--	--	--	**27**	--	--	--	**18**
Sulfide	mg/L	N/A	N/A	--	**1.1**	--	--	--	**1.6**	--	--	--	**3.1**
Ferrous Iron	mg/L	N/A	N/A	--	**1.1** HF	--	--	--	< 0.10 HF	--	--	--	**1.4** HF
Total Iron	mg/L	N/A	N/A	--	**2.3**	--	--	--	**1.0**	--	--	--	**13**
Carbon Dioxide	mg/L	N/A	N/A	--	**61**	--	--	--	**1.2**	--	--	--	**0.74**
Methane	mg/L	N/A	N/A	--	**19**	--	--	--	**1.2**	--	--	--	**100**
Dissolved Nitrogen	mg/L	N/A	N/A	--	**19**	--	--	--	**4.7**	--	--	--	**4.2**
Dissolved Oxygen	mg/L	N/A	N/A	--	**6.0**	--	--	--	**1.6**	--	--	--	**1.5**
Laboratory Results - Organic Constituents													
Volatile Organic Compounds													
Benzene	µg/L	5*	9	**770**	**180**	**3,300**	**870**	**1,800**	**8.6**	**3,600**	**6,000**	**3,800**	**2,300**
Carbon Disulfide	µg/L	329	1,700	< 5.0	<10	< 50	< 50	< 25	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	**160**	**21**	**1,000**	**330**	**730**	< 5.0	**580**	< 500	660	< 500
Toluene	µg/L	1,000*	1,100	**1,500**	**400**	**10,000**	**2,800**	**5,000**	**25**	**7,700**	**13,000**	**9,300**	**5,700**
Total Xylenes	µg/L	31,000	200,000	**690**	**370**	**5,200**	**1,800**	**2,600**	**20**	**3,800**	**3,700**	**4,900**	**2,400**
Semivolatile Organic Compounds													
Acenaphthene	µg/L	2,000*	6,100	< 10	**2.0**	**28**	**21**	**28**	--	--	--	--	--
Acenaphthylene	µg/L	470	3,100	**12**	**5.7**	**99**	**69**	**100**	--	--	--	--	--
Anthracene	µg/L	4,700	31,000	< 10	**0.30**	**2.8**	< 1.9	**2.1**	--	--	--	--	--
Benzo[a]anthracene	µg/L	1.17	3.92	< 0.20	< 0.20	< 2.3	< 1.9	< 2.1	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	< 0.20	< 0.20	< 2.3	< 1.9	< 2.1	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	< 0.20	< 0.20	< 2.3	< 1.9	< 2.1	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	< 10	< 0.20	< 2.3	< 1.9	< 2.1	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 10	< 0.20	< 2.3	< 1.9	< 2.1	--	--	--	--	--
Chrysene	µg/L	117	392	< 10	< 0.20	< 2.3	< 1.9	< 2.1	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 0.20	< 0.20	< 2.3	< 1.9	< 2.1	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	**69**	**32**	**540**	**350**	**460**	--	--	--	--	--
Fluoranthene	µg/L	1,000*	4,100	< 10	<0.20	**2.3**	**2.2**	< 2.1	--	--	--	--	--
Fluorene	µg/L	1,000*	4,100	< 10	**1.5**	**20**	**16**	**18**	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 0.20	<0.2	< 2.3	< 1.9	< 2.1	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	**40**	**42**	< 23	**75**	**300**	--	--	--	--	--
3 & 4 Methylphenol	µg/L	78	510	**62**	**28**	**300**	**150**	**500**	--	--	--	--	--
Naphthalene	µg/L	20*	20*	**260**	**1.8**	**1,800**	**380**	**1,100**	**6.3**	**1,100**	**740 ***	**1,100**	**1,300**
Phenanthrene	µg/L	470	3,100	< 10	**0.73**	**28**	**23**	**19**	--	--	--	--	--
Phenol	µg/L	9,390	61,000	**30**	**37**	**130**	**73**	**390**	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	< 10	<0.20	**3.1**	**3.1**	**2.6**	--	--	--	--	--
Laboratory Results - Inorganic Constituents													
Antimony	µg/L	6.3	400	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--
Arsenic	µg/L	50*	50*	< 50	< 20	< 20	< 20	< 20	--	--	--	--	--
Barium	µg/L	2,000	7,200	**52.5**	**29**	**55**	**76**	**35**	**36**	**44**	**53**	**69**	**46**
Beryllium	µg/L	31	200	< 10	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--
Cadmium	µg/L	7.8	51	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--
Chromium	µg/L	100	310	< 10	< 10	**10**	< 10	< 10	< 10	< 10	< 10	**18**	< 10
Copper	µg/L	630	4,100	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Lead	µg/L	15*	15*	< 10	< 10	< 10	**13**	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Zinc	µg/L	4,700	31,000	< 20	< 20	**20**	**29**	< 20	--	--	--	--	--
Mercury	µg/L	2*	2*	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--
Total Cyanide		310	2,000	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	AMW-8 (Abandoned)											
				08/07/13	03/13/13	11/07/12	8/7/2012	05/16/12	02/09/12	11/18/11	08/09/11	08/11 DUP	05/04/11	05/11 DUP	02/22/11
Field Groundwater Quality Parameters															
pH	SU	N/A	N/A	7.12	6.66	6.31	6.21	6.47	6.44	6.50	6.43	6.43	6.48	6.48	6.56
Specific Conductance	µS/cm	N/A	N/A	1,096	804	510	575	971	1,389	566	661	661	899	899	810
Temperature	°Celsius	N/A	N/A	23.13	16.52	17.04	22.86	21.58	17.35	20.69	27.16	27.16	17.70	17.70	18.23
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	0.18	3.39	0.50	2.68	0.41	0.94	0.58	0.16	0.16	0.52	0.52	0.29
ORP	mV	N/A	N/A	-56.7	159.1	-49.0	-7.7	-73.9	-40.7	-108.1	138.7	138.7	-433.9	-433.9	-279.2
Turbidity	NTU	N/A	N/A	1.09	5.03	101	83.3	9.2	9.82	308	>1000	>1000	7.06	7.06	381
Laboratory Results - Natural Attenuation Parameters															
Nitrogen, Nitrate	mg/L	N/A	N/A	--	**0.28**	--	--	--	**0.23**	--	--	--	--	--	**1.0**
Sulfate	mg/L	N/A	N/A	--	**120**	--	--	--	**200**	--	--	--	--	--	**95**
Sulfide	mg/L	N/A	N/A	--	< 1.0	--	--	--	< 1.0	--	--	--	--	--	**5.3**
Ferrous Iron	mg/L	N/A	N/A	--	< 0.10 HF	--	--	--	**2.5** HF	--	--	--	--	--	< 0.010 HF
Total Iron	mg/L	N/A	N/A	--	**1.1**	--	--	--	**4.1**	--	--	--	--	--	**18**
Carbon Dioxide	mg/L	N/A	N/A	--	**71**	--	--	--	**2.6**	--	--	--	--	--	**1.1**
Methane	mg/L	N/A	N/A	--	< 0.58	--	--	--	**24**	--	--	--	--	--	**12**
Dissolved Nitrogen	mg/L	N/A	N/A	--	**17**	--	--	--	**5.2**	--	--	--	--	--	**3.9**
Dissolved Oxygen	mg/L	N/A	N/A	--	**6.9**	--	--	--	**1.5**	--	--	--	--	--	**1.3**
Laboratory Results - Organic Constituents															
Volatile Organic Compounds															
Benzene	µg/L	5*	9	< 5.0	< 1.0	**780**	**620**	**110**	**14**	**590**	**600**	**530**	< 50	<25	< 50
Carbon Disulfide	µg/L	329	1,700	< 5.0	< 2.0	< 100	< 20	< 5.0	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	< 5.0	< 1.0	**1,500**	**810**	**380**	**44**	**950**	**760**	**670**	**130**	**130**	**450**
Toluene	µg/L	1,000*	1,100	< 5.0	< 1.0	**4,600**	**3,700** D	**590**	**39**	**2,600**	**2,400**	**2,600**	**240**	**240**	**580**
Total Xylenes	µg/L	31,000	200,000	< 5.0	< 2.0	**5,100**	**2,200**	**780**	**120**	**3,100**	**2,500**	**2,300**	**1,400**	**1,300**	**3,300**
Semivolatile Organic Compounds															
Acenaphthene	µg/L	2,000*	6,100	< 10	< 0.20	**32**	**27**	**14**	--	--	--	--	--	--	--
Acenaphthylene	µg/L	470	3,100	< 10	< 0.20	**48**	**41**	**19**	--	--	--	--	--	--	--
Anthracene	µg/L	4,700	31,000	< 10	**0.36**	**4.2**	< 2.0	< 2.2	--	--	--	--	--	--	--
Benzo[a]anthracene	µg/L	1.17	3.92	< 0.20	**0.21**	< 2.4	< 2.0	< 2.2	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	< 0.20	< 0.20	< 2.4	< 2.0	< 2.2	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	< 0.20	< 0.20	< 2.4	< 2.0	< 2.2	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	< 10	< 0.20	< 2.4	< 2.0	< 2.2	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 10	< 0.20	< 2.4	< 2.0	< 2.2	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	< 10	**0.25**	< 2.4	< 2.0	< 2.2	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 0.20	< 0.20	< 2.4	< 2.0	< 2.2	--	--	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	< 10	< 2.0	**38**	**30**	< 22	--	--	--	--	--	--	--
Fluoranthene	µg/L	1,000*	4,100	< 10	**0.30**	**4.4**	**3.9**	< 2.2	--	--	--	--	--	--	--
Fluorene	µg/L	1,000*	4,100	< 10	< 0.20	**21**	**19**	**7.3**	--	--	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 0.20	< 0.20	< 2.4	< 2.0	< 2.2	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	< 10	< 2.0	< 24	< 20	< 22	--	--	--	--	--	--	--
3 & 4 Methylphenol	µg/L	78	510	< 10	< 2.0	< 24	< 20	< 22	--	--	--	--	--	--	--
Naphthalene	µg/L	20*	20*	< 10	< 0.20	**2,100**	**1,600**	**650**	**170**	**1,100**	**1,700**	**1,400**	**680**	**700**	**1,800**
Phenanthrene	µg/L	470	3,100	< 10	**0.54**	**52**	**46**	**20**	--	--	--	--	--	--	--
Phenol	µg/L	9,390	61,000	< 10	< 0.99	< 12	< 9.9	< 11	--	--	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	< 10	**0.35**	**5.3**	**5.7**	< 2.2	--	--	--	--	--	--	--
Laboratory Results - Inorganic Constituents															
Antimony	µg/L	6.3	400	< 20.0	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--
Arsenic	µg/L	50*	50*	< 50.0	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--
Barium	µg/L	2,000	7,200	**59.2**	**41**	**140**	**89**	**59**	**87**	**130**	**170**	**95**	**74**	**76**	**92**
Beryllium	µg/L	31	200	< 10	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--
Chromium	µg/L	100	310	< 10	< 10	< 10	**12**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	< 10	< 20	< 20	< 20	< 20	< 20	< 20	**34**	< 20	< 20	< 20	< 20
Lead	µg/L	15*	15*	< 10	< 10	**12**	**17**	< 10	< 10	**23**	**10**	**20**	< 10	< 10	**12**
Nickel	µg/L	100	2,000	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Zinc	µg/L	4,700	31,000	< 20	< 20	< 20	23	< 20	--	--	--	--	--	--	--
Mercury	µg/L	2*	2*	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--	--
Total Cyanide		310	2,000	11	< 10	< 10	< 10	< 10	**11**	--	--	--	--	--	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	AMW-9 (Destroyed)										AMW-10 (abandoned)									
				04/28/15	08/06/13	03/13/13	11/06/12	08/06/12	05/14/12	02/09/12	11/18/11	08/08/11	05/04/11	02/22/11	08/07/13	02/12/13	11/07/12	08/08/12	05/16/12	02/14/12	11/18/11	08/11/11	05/04/11	02/23/11
Field Groundwater Quality Parameters																							
pH	SU	N/A	N/A	4.64	4.51	4.92	4.58	5.07	4.71	5.33	4.91	4.48	5.05	5.59	6.41	6.35	6.18	6.09	6.21	5.92	6.38	6.20	6.24	6.44
Specific Conductance	µS/cm	N/A	N/A	374	341	317	371	414	398	353	378	474	405	364	726	628	528	676	716	561	541	651	569	378
Temperature	°Celsius	N/A	N/A	16.87	19.93	17.56	16.78	23.04	23.64	16.88	18.80	23.01	18.63	17.36	22.53	19.54	16.98	23.79	24.20	18.49	15.13	20.61	21.39	20.51
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	0.75	1.27	1.06	1.36	1.76	1.52	5.18	0.50	0.49	0.28	2.73	0.15	1.79	2.38	0.53	0.43	2.70	0.30	0.26	0.62	2.63
ORP	mV	N/A	N/A	-24.7	212.2	1.5	237.0	125.1	167.1	40.8	210.1	357.7	-420.6	160.1	-2.5	-58.9	-71.2	-40.7	-66.0	-40.7	-75.4	162.3	-54.3	-92.3
Turbidity	NTU	N/A	N/A	461	230	>4000	37.3	34.6	51.1	34.2	306	125	652	273	3.03	51.3	3.02	131	7.75	18.0	6.05	233	5.12	>999
Laboratory Results - Natural Attenuation Parameters																							
Nitrogen, Nitrate	mg/L	N/A	N/A	--	--	< 0.050	--	--	--	< 0.050	--	--	--	< 0.050	--	< 0.050	--	--	--	< 0.050	--	--	--	< 0.050
Sulfate	mg/L	N/A	N/A	--	--	**91**	--	--	--	**110**	--	--	--	**83**	--	**40**	--	--	--	**110**	--	--	--	**62**
Sulfide	mg/L	N/A	N/A	--	--	**1.0**	--	--	--	< 1.0	--	--	--	< 1.0	--	< 1.0	--	--	--	**1.2**	--	--	--	< 1.0
Ferrous Iron	mg/L	N/A	N/A	--	--	< 0.10 HF	--	--	--	**0.23** HF	--	--	--	**1** HF	--	**36** HF	--	--	--	**16** HF	--	--	--	**0.36** HF
Total Iron	mg/L	N/A	N/A	--	--	**14**	--	--	--	**1.6**	--	--	--	**1.4**	--	**59**	--	--	--	**21**	--	--	--	**8.9**
Carbon Dioxide	mg/L	N/A	N/A	--	--	**110**	--	--	--	**2.5**	--	--	--	**1.5**	--	**200**	--	--	--	**3200**	--	--	--	**1.1**
Methane	mg/L	N/A	N/A	--	--	**1.7**	--	--	--	**1.3**	--	--	--	**14**	--	**250**	--	--	--	< 0.58	--	--	--	**35**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	**16**	--	--	--	**6.6**	--	--	--	**4.7**	--	--	--	--	--	**5200**	--	--	--	**4.1**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	**9.4**	--	--	--	**2.3**	--	--	--	**1.7**	--	**3.0**	--	--	--	**1500**	--	--	--	**1.4**
Laboratory Results - Organic Constituents																							
Volatile Organic Compounds																							
Benzene	µg/L	5*	9	< 5.0	< 5.0	< 1.0	**3.6**	**2.7**	< 5.0	< 5.0	**20**	**11**	**22**	< 5.0	< 5.0	**390**	**410**	**670**	**180**	**250**	**170**	**240**	**180**	**110**
Carbon Disulfide	µg/L	329	1,700	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 5.0	--	--	--	--	--	< 5.0	< 20	< 20	< 20	< 25	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**1,000**	**760**	**1,200**	**370**	**290**	**450**	**520**	**410**	**210**
Toluene	µg/L	1,000*	1,100	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**20**	**17**	**20**	< 25	< 25	**25**	**11**	**13**	< 10
Total Xylenes	µg/L	31,000	200,000	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**480**	**410**	**440**	**190**	**540**	**300**	**390**	**490**	**200**
Semivolatile Organic Compounds																							
Acenaphthene	µg/L	2,000*	6,100	< 10	< 10	< 0.19	< 0.22	< 0.22	< 0.21	--	--	--	--	--	< 10	**38**	**52**	**38**	**18**	--	--	--	--	--
Acenaphthylene	µg/L	470	3,100	< 10	< 10	< 0.19	< 0.22	< 0.22	**0.21**	--	--	--	--	--	< 10	**15**	**13**	**15**	**3.9**	--	--	--	--	--
Anthracene	µg/L	4,700	31,000	< 10	< 10	< 0.19	< 0.22	< 0.22	**0.29**	--	--	--	--	--	< 10	**2.2**	< 1.9	**2.4**	**0.53**	--	--	--	--	--
Benzo[a]anthracene	µg/L	1.17	3.92	< 0.050	< 0.20	**0.20**	**0.22**	< 0.22	**1.8**	--	--	--	--	--	< 0.20	< 2.0	< 1.9	< 2.0	< 0.23	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	< 0.050	**0.29**	**0.24**	**0.29**	< 0.22	**2.0**	--	--	--	--	--	< 0.20	< 2.0	< 1.9	< 2.0	< 0.23	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	< 0.10	**0.64**	**0.39**	**0.58**	< 0.22	**3.2**	--	--	--	--	--	< 0.20	< 2.0	< 1.9	< 2.0	< 0.23	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	< 10	< 10	**0.39**	**0.43**	**0.22**	**2.1**	--	--	--	--	--	< 10	< 2.0	< 1.9	< 2.0	< 0.23	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 10	< 10	**0.37**	**0.31**	< 0.22	< 0.21	--	--	--	--	--	< 10	< 2.0	< 1.9	< 2.0	< 0.23	--	--	--	--	--
Chrysene	µg/L	117	392	< 10	< 10	**0.26**	**0.35**	< 0.22	**1.9**	--	--	--	--	--	< 10	< 2.0	< 1.9	< 2.0	**0.35**	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 0.10	< 0.20	< 0.19	< 0.22	< 0.22	< 0.21	--	--	--	--	--	< 0.20	< 2.0	< 1.9	< 2.0	< 0.23	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	< 10	< 10	< 1.9	< 2.2	< 2.2	< 2.1	--	--	--	--	--	< 10	< 20	< 19	< 20	**4.1**	--	--	--	--	--
Fluoranthene	µg/L	1,000*	4,100	< 10	< 10	**0.31**	**0.34**	< 0.22	**2.9**	--	--	--	--	--	< 10	< 2.0	< 1.9	< 2.0	< 0.23	--	--	--	--	--
Fluorene	µg/L	1,000*	4,100	< 10	< 10	**0.48**	**0.61**	< 0.22	**0.23**	--	--	--	--	--	< 10	**17**	**20**	**16**	**6.1**	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 0.050	**0.44**	**0.34**	**0.31**	< 0.22	**1.5**	--	--	--	--	--	< 0.20	< 2.0	< 1.9	< 2.0	< 0.23	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	< 10	< 10	< 1.9	< 2.2	< 2.2	< 2.1	--	--	--	--	--	< 10	< 20	< 19	< 20	< 2.3	--	--	--	--	--
3 & 4 Methylphenol	µg/L	78	510	< 10	< 10	< 1.9	< 2.2	< 2.2	< 2.1	--	--	--	--	--	< 10	< 20	< 19	< 20	< 2.3	--	--	--	--	--
Naphthalene	µg/L	20*	20*	< 10	< 10	< 0.19	< 0.22	< 0.22	**1.1**	**7.1**	< 5.0	< 5.0 *	< 5.0	< 5.0	< 10	**390**	**690**	**460**	**200**	**510**	**520**	**590 ***	**690**	**300**
Phenanthrene	µg/L	470	3,100	< 10	< 10	**1.3**	**0.95**	**0.22**	**1.4**	--	--	--	--	--	< 10	**36**	**31**	**37**	**8.8**	--	--	--	--	--
Phenol	µg/L	9,390	61,000	< 10	< 10	**0.97**	< 1.1	< 1.1	< 1.1	--	--	--	--	--	< 10	**11**	< 9.7	**23**	**12**	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	< 10	< 10	**0.34**	**0.39**	< 0.22	**3.3**	--	--	--	--	--	< 10	< 2.0	< 1.9	< 2.0	**0.23**	--	--	--	--	--
Laboratory Results - Inorganic Constituents																							
Antimony	µg/L	6.3	400	< 20	< 20.0	< 20	< 20	< 20	< 20	--	--	--	--	--	< 20.0	< 20	< 20	< 20	< 20	--	--	--	--	--
Arsenic	µg/L	50*	50*	< 50	< 50.0	< 20	< 20	< 20	< 20	--	--	--	--	--	< 50.0	< 20	< 20	< 20	< 20	--	--	--	--	--
Barium	µg/L	2,000	7,200	**34.5**	**44.9**	**83**	**44**	**40**	**36**	**35**	**97**	**96**	**1,400**	**46**	**42.3**	**440**	**450**	**810**	**240**	**300**	**220**	**600**	**370**	**170**
Beryllium	µg/L	31	200	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--	< 10.0	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--
Cadmium	µg/L	7.8	51	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--
Chromium	µg/L	100	310	< 10	< 10	**11**	< 10	< 10	< 10	< 10	< 10	< 10	**390**	< 10	< 10.0	< 10	< 10	**34**	< 10	< 10	**10**	**90**	< 10	< 10
Copper	µg/L	630	4,100	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	**750**	< 20	< 10.0	< 20	< 20	**20**	< 20	< 20	**20**	< 20	< 20	< 20
Lead	µg/L	15*	15*	< 10	< 10	**20**	< 10	< 10	< 10	< 10	< 10	< 10	**1,200**	< 10	< 10.0	< 10	< 10	**20**	< 10	< 10	**10**	**120**	< 10	< 10
Nickel	µg/L	100	2,000	< 20.0	< 20.0	< 40	< 40	< 40	< 40	< 40	< 40	< 40	**200**	< 40	< 20.0	< 40	< 40	< 40	< 40	< 40	**40**	< 40	< 40	< 40
Zinc	µg/L	4,700	31,000	< 20.0	**64.7**	**98**	**100**	**110**	**100**	--	--	--	--	--	< 20.0	**32**	< 20	**32**	< 20	--	--	--	--	--
Mercury	µg/L	2*	2*	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--
Total Cyanide	µg/L	310	2,000	< 10	< 10	< 10	**16**	**24**	< 10	< 10	--	--	--	< 10	< 10	< 10	**28**	< 10	< 10	< 10	--	--	--	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	AMW-11				AMW-12					AMW-13			
				2/22/2017	08/22/16	04/28/15	08/06/13	2/21/2017	08/23/16	8/16 DUP	04/28/15	08/06/13	02/22/17	08/23/16	04/28/15	08/06/13
Field Groundwater Quality Parameters																
pH	SU	N/A	N/A	6.12	6.04	5.99	7.06	5.65	5.60		5.41	6.06	5.71	5.53	5.41	6.75
Specific Conductance	µS/cm	N/A	N/A	655.0	625.1	581	861	356.8	373.4		389	292	117.30	341.9	415	646
Temperature	°Celsius	N/A	N/A	21.24	30.86	19.31	26.81	21.05	25.53		19.61	26.11	23.77	26.88	22.22	27.72
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	0.32	0.23	2.05	0.27	3.27	1.94		2.44	0.60	1.64	0.70	1.75	0.41
ORP	mV	N/A	N/A	67.60	99.1	-30.4	1.5	137.5	189.5		-31.4	146.4	191.20	435.7	-28.3	83.7
Turbidity	NTU	N/A	N/A	3.11	3.01	9.91	1.38	1.00	7.80		1.4	0.98	1.75	9.85	9.61	13.7
Laboratory Results - Natural Attenuation Parameters																
Nitrogen, Nitrate	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Iron	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--
Laboratory Results - Organic Constituents																
Volatile Organic Compounds																
Benzene	µg/L	5*	9	<5.0	<5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	<5.0	<5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0
Ethylbenzene	µg/L	700*	2,300	<5.0	<5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	<5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	<5.0	<5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																
Acenaphthene	µg/L	2,000*	6,100	<0.50	<0.50	< 10	< 10	<0.50	<0.50	<0.50	< 10	< 10	<0.50	<0.50	< 10	< 10
Acenaphthylene	µg/L	470	3,100	<1.0	<1.0	< 10	< 10	<1.0	<1.0	<1.0	< 10	< 10	<1.0	<1.0	< 10	< 10
Anthracene	µg/L	4,700	31,000	**0.066**	<0.050	< 10	< 10	**0.053**	<0.050	<0.050	< 10	< 10	<0.050	<0.050	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	<0.050	<0.050	< 0.20	<0.050	<0.050	<0.050	<0.050	< 0.20	<0.050	<0.050	<0.050	< 0.20
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	<0.050	< 0.050	< 0.20	<0.050	<0.050	<0.050	< 0.050	< 0.20	<0.050	<0.050	< 0.050	< 0.20
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	< 0.10	< 0.20	<0.10	<0.10	<0.10	< 0.10	< 0.20	<0.10	<0.10	< 0.10	< 0.20
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	< 10	< 10	<0.10	<0.10	<0.10	< 10	< 10	<0.10	<0.10	< 10	< 10
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	< 10	< 10	<0.050	<0.050	<0.050	< 10	< 10	<0.050	<0.050	< 10	< 10
Chrysene	µg/L	117	392	<0.050	<0.050	< 10	< 10	<0.050	<0.050	<0.050	< 10	< 10	<0.050	<0.050	< 10	< 10
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	< 0.10	< 0.20	<0.10	<0.10	<0.10	< 0.10	< 0.20	<0.10	<0.10	< 0.10	< 0.20
2,4-Dimethylphenol	µg/L	700*	700*	<10	<10	< 10	< 10	<10	<10	<10	< 10	< 10	<10	<10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	<0.10	<0.10	< 10	< 10	<0.10	<0.10	<0.10	< 10	< 10	<0.10	<0.10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	<0.10	<0.10	< 10	< 10	<0.10	<0.10	<0.10	< 10	< 10	<0.10	<0.10	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	<0.050	< 0.050	< 0.20	<0.050	<0.050	<0.050	< 0.050	< 0.20	<0.050	<0.050	< 0.050	< 0.20
2-Methylphenol	µg/L	780	5,100	<10	<10	< 10	< 10	<10	<10	<10	< 10	< 10	<10	<10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	<10	< 10	< 10	<10	<10	<10	< 10	< 10	<10	<10	< 10	< 10
Naphthalene	µg/L	20*	20*	<0.50	<0.50	< 10	< 10	<0.50	<0.50	<0.50	< 10	< 10	<0.50	<0.50	< 10	< 10
Phenanthrene	µg/L	470	3,100	<0.050	<0.050	< 10	< 10	<0.050	<0.050	<0.050	< 10	< 10	<0.050	<0.050	< 10	< 10
Phenol	µg/L	9,390	61,000	<10	<10	< 10	< 10	<10	<10	<10	< 10	< 10	<10	<10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	<0.050	<0.050	< 10	< 10	<0.050	<0.050	<0.050	< 10	< 10	<0.050	<0.050	< 10	< 10
Laboratory Results - Inorganic Constituents																
Antimony	µg/L	6.3	400	--	< 20	< 20	< 20	--	< 20	< 20	< 20	< 20	--	< 20	< 20	< 20
Arsenic	µg/L	50*	50*	--	< 50	< 50	< 50	--	< 50	< 50	< 50	< 50	--	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	--	**47.4**	**42.3**	**53.6**	--	**38.8**	**39.7**	**42.8**	**38.5**	--	**45**	**48.8**	**93.9**
Beryllium	µg/L	31	200	--	<0.0100	< 10	< 10	--	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10
Cadmium	µg/L	7.8	51	--	<0.0050	< 5.0	< 5.0	--	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5.0	< 5.0	< 5.0
Chromium	µg/L	100	310	--	**23.2**	**17.7**	< 10	--	**38.4**	**39.2**	**15.7**	< 10	--	< 10	< 10	< 10
Copper	µg/L	630	4,100	--	< 10	< 10	< 10	--	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10
Lead	µg/L	15*	15*	--	< 10	< 10	< 10	--	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	< 20	< 20	< 20	--	< 20	< 20	< 20	< 20	--	< 20	< 20	< 20
Zinc	µg/L	4,700	31,000	--	< 20	< 20	< 20.	--	< 20	< 20	< 20	< 20	--	< 20	< 20	< 20
Mercury	µg/L	2*	2*	--	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.20	< 0.20
Total Cyanide	µg/L	310	2,000	--	<10	**15**	**45**	--	< 10.0	< 10.0	< 10.0	< 10	--	< 10	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	AMW-14				AMW-15				
				02/21/18	02/21/17	08/23/16	04/29/15	02/21/18	02/23/17	DUP-2	08/24/16	04/29/15
Field Groundwater Quality Parameters												
pH	SU	N/A	N/A	6.27	6.38	6.01	6.18	5.91	5.71		5.70	6.02
Specific Conductance	µS/cm	N/A	N/A	286.3	258.3	318.4	373	174.3	175.7		185.5	158
Temperature	°Celsius	N/A	N/A	23.07	23.21	28.35	18.46	21.77	22.21		26.88	17.72
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	2.71	5.88	0.31	1.26	2.14	1.08		0.61	7.96
ORP	mV	N/A	N/A	78.8	113.8	-13.7	-27.1	70.6	128.7		29.9	39.0
Turbidity	NTU	N/A	N/A	1.83	7.88	7.70	5.58	0.72	6.85		41.30	24.1
Laboratory Results - Natural Attenuation Parameters												
Nitrogen, Nitrate	mg/L	N/A	N/A	< 0.25	--	--	--	< 0.25	--	--	--	--
Sulfate	mg/L	N/A	N/A	37	--	--	--	10	--	--	--	--
Sulfide	mg/L	N/A	N/A	< 2.0	--	--	--	< 2.0	--	--	--	--
Ferrous Iron	mg/L	N/A	N/A	1.6	--	--	--	1.54	--	--	--	--
Total Iron	mg/L	N/A	N/A	2.29	--	--	--	2.17	--	--	--	--
Carbon Dioxide	mg/L	N/A	N/A	100	--	--	--	88	--	--	--	--
Methane	mg/L	N/A	N/A	0.018	--	--	--	0.046	--	--	--	--
Dissolved Nitrogen	mg/L	N/A	N/A	15	--	--	--	13	--	--	--	--
Dissolved Oxygen	mg/L	N/A	N/A	4	--	--	--	4.6	--	--	--	--
Laboratory Results - Organic Constituents												
Volatile Organic Compounds												
Benzene	µg/L	5*	9	**23**	<5.0	**63**	< 5.0	**100**	**78**	**80**	**120**	**57**
Carbon Disulfide	µg/L	329	1,700	<5.0	<5.0	<5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	< 5.0
Ethylbenzene	µg/L	700*	2,300	**59**	**14**	**110**	< 5.0	**19**	**14**	**17**	**28**	**9.3**
Toluene	µg/L	1,000*	1,100	5.3	<5.0	**11**	< 5.0	< 5.0	<5.0	<5.0	**7**	< 5.0
Total Xylenes	µg/L	31,000	200,000	**48**	**16**	**100**	< 5.0	**13**	**10**	**12**	**27**	**15**
Semivolatile Organic Compounds												
Acenaphthene	µg/L	2,000*	6,100	**17**	**0.71**	**2.4**	< 10	**26**	**11**	**10**	**15**	< 10
Acenaphthylene	µg/L	470	3,100	**21**	<1.0	**2.5**	< 10	**3.4**	**1.9**	<100	**4.2**	< 10
Anthracene	µg/L	4,700	31,000	**1.2**	<0.050	**2.6**	< 10	**1.10**	**0.49**	<5.0	**0.81**	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	<0.050	**0.07**	< 0.050	<0.050	<0.050	<5.0	<0.050	< 0.050
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	<0.050	<0.050	< 0.050	<0.050	<0.050	<5.0	<0.050	< 0.050
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	<0.10	< 0.10	<0.10	<0.10	<10	<0.10	< 0.10
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	<0.10	< 10	<0.10	<0.10	<10	<0.10	< 10
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	<0.050	< 10	<0.050	<0.050	<5.0	<0.050	< 10
Chrysene	µg/L	117	392	<0.050	<0.050	<0.050	< 10	<0.050	<0.050	<5.0	<0.050	< 10
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	<0.10	< 0.10	<0.10	<0.10	<10	<0.10	< 0.10
2,4-Dimethylphenol	µg/L	700*	700*	<10	<10	<10	< 10	<10	<10	<10	<10	< 10
Fluoranthene	µg/L	1,000*	4,100	**0.41**	<0.10	**0.98**	< 10	**0.54**	**0.29**	<10	**0.44**	< 10
Fluorene	µg/L	1,000*	4,100	**9.2**	**0.28**	**1.1**	< 10	**8.1**	**4.0**	**4.0**	**5.4**	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	<0.050	<0.050	< 0.050	<0.050	<0.050	<5.0	<0.050	< 0.050
2-Methylphenol	µg/L	780	5,100	<10	<10	<10	< 10	<10	<10	<10	<10	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	<10	<10	< 10	<10	<10	<10	<10	< 10
Naphthalene	µg/L	20*	20*	**320**	**18**	**40**	< 10	**32**	**12**	**11**	**28**	**20**
Phenanthrene	µg/L	470	3,100	**12**	**0.30**	**2.8**	< 10	**7.4**	**3.2**	<5.0	**8.0**	< 10
Phenol	µg/L	9,390	61,000	<10	<10	<10	< 10	<10	<10	<10	<10	< 10
Pyrene	µg/L	1,000*	3,100	**0.41**	<0.050	**0.99**	< 10	**0.45**	**0.20**	<5.0	**0.39**	< 10
Laboratory Results - Inorganic Constituents												
Antimony	µg/L	6.3	400	< 20	--	< 20	< 20	< 20	--	--	< 20	< 20
Arsenic	µg/L	50*	50*	< 50	--	< 50	< 50	< 50	--	--	< 50	< 50
Barium	µg/L	2,000	7,200	**178**	--	**201**	**92.5**	**175**	--	--	**164**	**15.8**
Beryllium	µg/L	31	200	< 10	--	< 10	< 10	< 10	--	--	< 10	< 10
Cadmium	µg/L	7.8	51	< 5.0	--	< 5.0	< 5.0	< 5.0	--	--	< 5.0	< 5.0
Chromium	µg/L	100	310	< 10	--	< 10	< 10	< 10	--	--	< 10	< 10
Copper	µg/L	630	4,100	< 10	--	< 10	< 10	< 10	--	--	< 10	< 10
Lead	µg/L	15*	15*	< 10	--	< 10	< 10	< 10	--	--	< 10	< 10
Nickel	µg/L	100	2,000	< 20	--	< 20	< 20	< 20	--	--	< 20	< 20
Zinc	µg/L	4,700	31,000	< 20	--	< 20	< 20	< 20	--	--	< 20	< 20
Mercury	µg/L	2*	2*	< 0.20	--	< 0.20	< 0.20	< 0.20	--	--	< 0.20	< 0.20
Total Cyanide	µg/L	310	2,000	16	--	< 10	< 10	< 10	--	--	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-07					MW-08										
				08/06/13	08/13 DUP	02/08/13	08/11/09	03/05/04	02/22/17	08/25/16	04/05/16	04/27/15	08/05/13	02/04/13	02/08/12	02/17/11	02/23/10	08/11/09	12/12/02
Field Groundwater Quality Parameters																			
pH	SU	N/A	N/A	5.12		5.86	6.59	5.72	6.44	5.73	6.29	5.95	5.08	5.55	5.51	2.19	6.02	5.79	6.10
Specific Conductance	µS/cm	N/A	N/A	185		191	230	171	214.10	240.2	300	271	419	273	262	198	339	481	289
Temperature	°Celsius	N/A	N/A	24.16		15.37	25.85	18.88	20.65	25.60	20.84	19.59	25.97	20.01	21.22	17.64	17.89	23.98	23.37
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	4.35		6.27	5.75	2.10	6.44	0.79	5.56	3.85	3.29	2.10	2.23	2.00	3.43	2.96	0.24
ORP	mV	N/A	N/A	-25.1		130.5	-122.4	97.0	106.6	29.0	73.5	59.2	34.6	186.2	73.2	5.7	73.4	-179.9	-8.2
Turbidity	NTU	N/A	N/A	8.62		2.97	1.82	12.9	5.15	0.76	7.76	1.01	0.21	6.62	5.2	78.3	4.31	1.50	1.64
Laboratory Results - Natural Attenuation Parameters																			
Nitrogen, Ammonia	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.894**
Nitrogen, Nitrate	mg/L	N/A	N/A	--	--	**1.3**	**0.45**	--	--	--	--	--	--	**0.26**	**0.38**	**0.065**	**0.091**	< 0.050	< 0.0500
Sulfate	mg/L	N/A	N/A	--	--	**33**	**59**	--	--	--	--	--	--	**60**	**55**	**35**	**64**	**92**	**27.5**
Sulfide	mg/L	N/A	N/A	--	--	< 1.0	< 1.0	--	--	--	--	--	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.00
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.169**
Total Manganese	mg/L	N/A	N/A	--	--	--	--	**0.218**	--	--	--	--	--	--	--	--	--	--	**0.175**
Ferrous Iron	mg/L	N/A	N/A	--	--	< 0.10 HF	< 0.01 HF	--	--	--	--	--	--	**1.3** HF	**0.40** HF	**0.19** HF	**0.29**	**2.8**	**4.86**
Total Iron	mg/L	N/A	N/A	--	--	**19**	**0.16**	**1.21**	--	--	--	--	--	**1.8**	**0.79**	**1.2**	**0.99**	**3.1**	**4.82**
Carbon Dioxide	mg/L	N/A	N/A	--	--	**120**	**0.37**	--	--	--	--	--	--	**110**	**1800**	**1.2**	**1.1**	**0.77**	**120**
Methane	mg/L	N/A	N/A	--	--	< 0.58	<0.19	--	--	--	--	--	--	**9.3**	**1.7**	**3.3**	**12**	**3.7**	**100**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	**4.4**	--	--	--	--	--	--	**17**	**5300**	**3.9**	**4.2**	**4.7**	**16**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	**6.5**	**1.6**	--	--	--	--	--	--	**5.2**	**1700**	**1.4**	**1.5**	**1.7**	**7.5**
Laboratory Results - Organic Constituents																			
Volatile Organic Compounds																			
Benzene	µg/L	5.0*	9	< 5.0	< 5.0	< 1.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	< 5.0	< 5.0	< 2.0	--	--	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 2.0	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	< 5.0	< 5.0	< 1.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	< 5.0	< 5.0	< 1.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	< 5.0	< 5.0	< 2.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																			
Acenaphthene	µg/L	2,000*	6,100	< 10	< 10	**16**	--	< 10	<0.50	<0.50	< 0.50	< 10	< 10	**1.3**	--	--	--	--	< 10
Acenaphthylene	µg/L	470	3,100	< 10	< 10	**13**	--	< 10	<1.0	<1.0	< 1.0	< 10	< 10	< 0.19	--	--	--	--	< 10
Anthracene	µg/L	4,700	31, 000	< 10	< 10	< 0.20	--	< 10	<0.050	<0.050	< 0.050	< 10	< 10	< 0.19	--	--	--	--	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	< 0.20	< 0.20	< 0.20	--	--	<0.050	<0.050	< 0.050	< 0.050	< 0.20	< 0.19	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	< 0.20	< 0.20	< 0.20	--	--	<0.050	<0.050	< 0.050	< 0.050	< 0.20	< 0.19	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	< 0.20	< 0.20	< 0.20	--	--	<0.10	<0.10	< 0.10	< 0.10	< 0.20	< 0.19	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	< 10	< 10	< 0.20	--	--	<0.10	<0.10	< 0.10	< 10	< 10	< 0.19	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 10	< 10	< 0.20	--	--	<0.050	<0.050	< 0.050	< 10	< 10	< 0.19	--	--	--	--	--
Chrysene	µg/L	117	392	< 10	< 10	< 0.20	--	--	<0.050	<0.050	< 0.050	< 10	< 10	< 0.19	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 0.20	< 0.20	< 0.20	--	--	<0.10	<0.10	< 0.10	< 0.10	< 0.20	< 0.19	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	< 10	< 10	< 2.0	--	< 10	<10	<10	< 10	< 10	< 10	< 1.9	--	--	--	--	< 10
Fluoranthene	µg/L	1,000*	4,100	< 10	< 10	**1.6**	--	< 10	<0.10	<0.10	< 0.10	< 10	< 10	< 0.19	--	--	--	--	< 10
Fluorene	µg/L	1,000*	4,100	< 10	< 10	**6.0**	--	< 10	<0.10	<0.10	< 0.10	< 10	< 10	< 0.19	--	--	--	--	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 0.20	< 0.20	< 0.20	--	--	<0.050	<0.050	0.10	< 0.050	< 0.20	< 0.19	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	< 10	< 10	< 2.0	--	< 10	<10	<10	< 10	< 10	< 10	< 1.9	--	--	--	--	< 10
3 & 4 Methylphenol	µg/L	78	510	< 10	< 10	< 2.0	--	< 10	<10	<10	< 10	< 10	< 10	< 1.9	--	--	--	--	< 10
Naphthalene	µg/L	20*	20*	< 10	< 10	**7.8**	< 9.8	< 10	<0.50	<0.50	< 0.50	< 10	< 10	< 0.19	< 5.0	< 9.4	< 9.4	< 11	< 10
Phenanthrene	µg/L	470	3,100	< 10	< 10	**0.48**	--	< 10	<0.050	<0.050	< 0.050	< 10	< 10	< 0.19	--	--	--	--	< 10
Phenol	µg/L	9,390	61,000	< 10	< 10	< 0.99	--	< 10	<10	<10	< 10	< 10	< 10	< 0.97	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	< 10	< 10	**4.7**	--	< 10	**0.16**	**0.16**	< 0.050	< 10	< 10	0.29	--	--	--	--	< 10
Laboratory Results - Inorganic Constituents																			
Antimony	µg/L	6.3	40	< 20	< 20	< 20	--	< 40	--	< 20	< 20	< 20	< 20	< 20	--	--	--	--	< 40
Arsenic	µg/L	50*	50*	< 50	< 50	< 20	--	< 50	--	< 50	< 50	< 50	< 50	< 20	--	--	--	--	< 50
Barium	µg/L	2,000	7,200	**31.2**	**31.4**	**100**	**59**	**39.6**	--	**59.5**	**48.6**	**72.5**	**61.6**	**66**	**69**	**58**	**64**	**0.11**	**56**
Beryllium	µg/L	31	200	< 10	< 10	< 4.0	--	--	--	< 10	< 10	< 10	< 10	< 4.0	--	--	--	--	--
Cadmium	mg/L	7.8	51	< 5.0	< 5.0	< 5.0	--	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--
Chromium	µg/L	100	310	< 10	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	< 10	< 10	< 20	< 20	< 10	--	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 10
Lead	µg/L	15*	15*	< 10	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	< 20	< 20	< 40	< 40	< 20	--	< 20	< 20	< 20	< 20	< 40	< 40	< 40	< 40	< 40	< 20
Zinc	µg/L	4,700	31,000	< 20	< 20	< 20	--	< 20	--	< 20	< 20	< 20	< 20	< 20	--	--	--	--	< 20
Mercury	µg/L	2*	2*	< 0.20	< 0.20	< 0.20	--	< 0.5	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	< 0.5
Total Cyanide	µg/L	310	2,000	< 10	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-09 (Abandoned)																															
				08/06/13	02/07/13	11/07/12	08/09/12	08/12 DUP	05/16/12	02/07/12	11/16/11	08/11/11	05/05/11	02/23/11	11/09/10	08/10/10	05/10/10	02/23/10	08/13/09	06/08/06	03/10/06	12/22/05	09/29/05	03/15/05	12/16/04	10/01/04	06/09/04	03/04/04	12/18/03	09/09/03	06/11/03	03/11/03	12/11/02	09/17/02
Field Groundwater Quality Parameters																																			
pH	SU	N/A	N/A	5.35	6.16	6.10	5.97	5.97	--	6.22	4.91	6.09	5.99	6.13	6.04	5.95	5.72	6.03	6.02	6.61	6.44	6.16	6.45	6.47	6.36	6.04	6.52	6.43	6.39	5.37	6.6	6.19	6.23	6.24
Specific Conductance	µS/cm	N/A	N/A	495	467	476	445	445	--	419	378	518	523	468	479	495	480	482	486	536	494	292	402	431	493	314	561	408	424	477	501	577	399	454
Temperature	°Celsius	N/A	N/A	23.01	12.14	20.94	25.47	25.47	--	17.89	18.80	27.19	20.47	20.42	26.10	25.96	20.73	17.67	25.96	23.30	18.72	19.88	24.43	19.15	23.02	24.92	21.32	18.77	20.72	23.76	22.88	18.72	21.69	26.69
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	0.67	0.14	0.78	0.60	0.60	--	4.04	0.50	0.22	0.16	0.09	0.08	0.09	0.43	0.60	2.15	0.28	0.44	0.77	0.27	2.66	1.68	0.84	0.11	0.65	0.26	0.29	0.10	0.04	0.18	0.12
ORP	mV	N/A	N/A	-29.2	-50.10	-73.3	-21.10	-21.1	--	-30.2	210.1	130.5	-97.4	-62.6	-65.3	-64.9	-57.2	-55.3	-11.5	-92.2	-72.2	9.5	-26.3	-88.4	-81.9	43.4	-108.7	-3.1	-143.3	-87.8	-94	-63.7	-73.4	-60.6
Turbidity	NTU	N/A	N/A	1.77	1.06	6.24	4.38	4.38	--	9.85	306	666	1.95	0.41	3.47	5.34	8.51	15.1	2.5	2.74	3.0	3.54	4.27	1.17	2.08	0.05	0.70	2.75	2.20	3.29	1.1	2.8	0.10	3.75
Laboratory Results - Natural Attenuation Parameters																																			
Nitrogen, Ammonia	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.57**	**0.61**	< 0.20	**0.56**	**0.78**	**0.39**	**0.83**	**0.429**	**0.289**	**0.274**	**0.280**
Nitrogen, Nitrate	mg/L	N/A	N/A	--	< 0.050	--	--	--	--	**6.4**	--	--	--	< 0.050	--	--	--	< 0.050	<0.25	--	--	--	--	< 0.500	< 0.0500	**0.0687**	< 0.0500	< 0.500	< 0.0500	< 0.0500	< 0.500	< 0.0500	< 0.0500	**0.059**
Sulfate	mg/L	N/A	N/A	--	< 5.0	--	--	--	--	**100**	--	--	--	< 5.0	--	--	--	< 5.0	**9.0**	--	--	--	--	**1.29**	**3.08**	**35.2**	**2.63**	**9.23**	**24.0**	**2.17**	**14.5**	**83**	**13.3**	**12.6**
Sulfide	mg/L	N/A	N/A	--	< 0.010	--	--	--	--	**1.70**	--	--	--	< 1.0	--	--	--	< 1.0	< 1.0	--	--	--	--	< 1.0	**1.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.00	< 1.00
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.693**	**0.646**	**0.131**	**0.804**	**0.684**	**0.655**	**0.792**	**0.81**	**0.916**	**0.450**	**0.685**
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.696**	**0.656**	**0.114**	**0.783**	**0.712**	**0.668**	**0.804**	**0.831**	**0.938**	**0.462**	**0.573**
Ferrous Iron	mg/L	N/A	N/A	--	**16** HF	--	--	--	--	< 10 HF	--	--	--	**8.2** HF	--	--	--	**26**	**13**	--	--	--	--	**20.2**	**17.0**	**1.0**	**46.5**	**28.3**	**10.7**	**32.8**	**14.1**	**12.8**	**18.6**	**16.9**
Total Iron	mg/L	N/A	N/A	--	**44**	--	--	--	--	< 10	--	--	--	**39**	--	--	--	**45**	**37**	--	--	--	--	**29.0**	**28.2**	**0.793**	**34.9**	**25.3**	**16.8**	**35.0**	**25.9**	**11.9**	**18.3**	**17.7**
Carbon Dioxide	mg/L	N/A	N/A	--	**170**	--	--	--	--	**3.3**	--	--	--	**2.7**	--	--	--	**2.9**	**2.3**	--	--	--	--	**110**	**130**	**140**	**120**	**130**	**130**	**120**	**140**	**160**	**140**	**160**
Methane	mg/L	N/A	N/A	--	**1300**	--	--	--	--	**1300**	--	--	--	**1500**	--	--	--	**1400**	**1200**	--	--	--	--	**2,500**	**2,200**	**130**	**2,200**	**1,600**	**570**	**1,800**	**1,700**	**810**	**1,800**	**2,200**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	--	**4.4**	--	--	--	**3.9**	--	--	--	**3.3**	**4.0**	--	--	--	--	**19**	**17**	**16**	**15**	**21**	**17**	**14**	**15**	**19**	**15**	**16**
Dissolved Oxygen	mg/L	N/A	N/A	--	**2.9**	--	--	--	--	**1.5**	--	--	--	**1.2**	--	--	--	**0.95**	**1.2**	--	--	--	--	**1.8**	**0.81**	**1.2**	**0.46**	**0.95**	**1.1**	**0.53**	**0.58**	**0.72**	**6.0**	**4.3**
Laboratory Results - Organic Constituents																																			
Volatile Organic Compounds																																			
Benzene	µg/L	5*	9	**1,300**	**1,300**	**1,300**	**640**	**1,300 D**	**1300**	**980**	**29**	**930**	**1,200**	**880**	**910**	**1,000**	**1,100**	**1,000**	**940**	**900**	**980**	< 5.0	**600**	**600**	**830**	**11**	**1,100**	**440**	**60**	**410**	**470**	**120**	**830**	**1,100**
Carbon Disulfide	µg/L	329	1,700	< 5.0	< 20	< 50	< 50	< 2.0	< 250	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	**2,800**	**2,200**	**2,500**	**1,300**	**2,700** D	**2,600**	**2,100**	**170**	**1,800**	**2,900**	**2,100**	--	--	--	**2,200**	**2,500**	**2,000**	**2,300**	**13**	**1,700**	**1,400**	**1,800**	**18**	**2,900**	**890**	**120**	**390**	**940**	**300**	**1,800**	**2,200**
Toluene	µg/L	1,000*	1,100	**790**	**500**	**580**	**290**	**590** D	**580**	**480**	< 5.0	**510**	**680**	**450**	--	--	--	**600**	**460**	**1,400**	**1,500**	< 5.0	**560**	**640**	**1,200**	< 5.0	**1,100**	**290**	**25**	**480**	**500**	**23**	**780**	**970**
Total Xylenes	µg/L	31,000	200,000	**5,300**	**3,800**	**4,600**	**2,400**	**4,900** D	**4,500**	**3,800**	**82**	**2,600**	**4,300**	**3,800**	--	--	--	**3,700**	**3,300**	**4,200**	**4,800**	**7.4**	**2,800**	**1,900**	**3,500**	**18**	**4,100**	**490**	**89**	**1,600**	**980**	**136**	**1,000**	**3,600**
Semivolatile Organic Compounds																																			
Acenaphthene	µg/L	2,000*	6,100	< 10	**29**	**45**	**36**	**33**	**33**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**70**	**64**	< 10	**87**	**74**	**26**	**93**	**64**	**21**	**45**	**33**
Acenaphthylene	µg/L	470	3,100	**52**	**40**	**68**	**52**	**49**	**47**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**36**	**51**	< 10	**47**	**18**	< 10	**61**	**22**	< 10	**29**	**30**
Anthracene	µg/L	4,700	31,000	< 10	**2.4**	**4.2**	**3.4**	**3.9**	**2.2**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	**0.47**	< 2.4	< 1.9	< 1.9	< 1.9	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	**0.45**	< 2.4	< 1.9	< 1.9	< 1.9	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	**0.44**	< 2.4	< 1.9	< 1.9	< 1.9	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	< 10	< 2.4	< 1.9	< 1.9	< 1.9	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 10	< 2.4	< 1.9	< 1.9	< 1.9	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	< 10	< 2.4	< 1.9	< 1.9	< 1.9	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	**0.22**	< 2.4	< 1.9	< 1.9	< 1.9	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	**52**	**180**	**210**	**180**	**170**	**140**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**15**	**22**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**15**	**15**
Fluoranthene	µg/L	1,000*	4,100	< 10	< 2.4	**2.0**	< 1.9	< 1.9	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	< 10	**20**	**30**	**25**	**25**	**22**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**26**	**24**	< 10	**31**	**23**	< 10	**38**	**23**	< 10	**15**	**15**
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	**0.35**	< 2.4	< 1.9	< 1.9	< 1.9	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	< 10	< 24	< 19	**58**	**56**	**72**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	< 10	< 24	< 19	< 19	< 19	< 21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	**2,400**	**1,400**	**4,900**	**2,000** D	**2,000** D	**2,500**	**3,700**	**300**	**2,100**	**4,300**	**3,800**	**4,000**	**4,500**	**3,100**	**2,000**	**3,000**	**1,000**	**1,400**	**17**	**1,300**	**1,300**	**2,200**	**42**	**2,500**	**910**	**180**	**210**	**820**	**290**	**890**	**730**
Phenanthrene	µg/L	470	3,100	**67**	**45**	**83**	**64**	**73**	**46**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**89**	**91**	< 10	**120**	**84**	**50**	**120**	**91**	**21**	**63**	**43**
Phenol	µg/L	9,390	61,000	< 10	**20**	< 9.7	**13**	**13**	**26**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	< 10	< 2.4	**1.9**	**2.1**	**2.2**	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Laboratory Results - Inorganic Constituents																																			
Antimony	µg/L	6.3	40	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Arsenic	µg/L	50*	50*	< 50	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	**893**	**790**	**840**	**770**	**760**	**1,300**	**36**	**91**	**820**	**700**	**620**	--	--	--	**550**	**360**	**211**	**210**	**59.9**	**167**	**155**	**160**	**54.7**	**152**	**111**	**97.8**	**165**	**122**	**71.6**	**113**	**133**
Beryllium	µg/L	31	200	< 10	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	< 10	< 10	< 10	< 10	< 10	**44**	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	< 10	< 20	< 20	< 20	< 20	**85**	< 20	< 20	< 20	< 20	< 20	--	--	--	< 20	< 20	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	< 10	< 10	< 10	< 10	< 10	**110**	< 10	< 10	**13**	< 10	< 10	--	--	--	< 10	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	**20.5**	< 40	< 40	< 40	< 40	**44**	< 40	< 40	< 40	< 40	< 40	--	--	--	< 40	< 40	< 20.0	< 20.0	< 20.0	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Zinc	µg/L	4,700	31,000	< 20	< 20	**28**	**49**	**49**	**2,900**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Mercury	µg/L	2*	2*	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Cyanide	µg/L	310	2,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10	--	--	--	< 10	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-10				MW-11																
				08/24/16	04/07/16	02/06/13	09/17/02	02/07/13	02/08/12	02/17/11	02/23/10	08/12/09	03/15/05	12/15/04	09/30/04	06/08/04	6/04 DUP	03/03/04	12/17/03	09/09/03	06/11/03	03/11/03	12/09/02	09/17/02
Field Groundwater Quality Parameters																								
pH	SU	N/A	N/A	5.83	6.06	5.65	5.72	5.59	5.32	5.49	5.43	5.96	5.43	5.37	5.33	5.64	5.64	5.45	5.52	5.50	5.56	5.40	5.35	5.38
Specific Conductance	µS/cm	N/A	N/A	325.9	200	287	350	293	322	304	474	330	278	314	324	314	314	273	305	301	300	294	276	294
Temperature	°Celsius	N/A	N/A	26.56	19.02	20.56	23.11	17.27	19.4	16.77	12.92	28.79	19.03	23.03	28.66	24.53	24.53	18.37	22.95	27.51	23.95	19.14	23.37	29.30
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	0.09	1.87	2.33	0.23	2.94	0.67	0.84	0.49	2.48	2.08	4.11	0.35	0.63	0.63	0.38	0.16	0.23	0.25	0.21	0.46	0.07
ORP	mV	N/A	N/A	20.7	80	159.8	40.1	187.8	71.1	44.7	20.43	75.4	157.7	242.5	158.6	148.7	148.7	107.8	190.8	21.4	156.3	227.6	273.3	194.4
Turbidity	NTU	N/A	N/A	1.44	23.9	1.79	2.11	4.02	7.76	0.65	0.57	0.00	0.00	4.3	0.00	0.89	0.89	0.23	0.00	0.00	0.00	2.4	0.00	0.16
Laboratory Results - Natural Attenuation Parameters																								
Nitrogen, Ammonia	mg/L	N/A	N/A	--	--	--	< 0.200	--	--	--	--	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.200	< 0.200	< 0.200	< 0.20
Nitrogen, Nitrate	mg/L	N/A	N/A	--	--	**0.46**	**0.207**	**1.1**	**0.83**	**0.59**	**0.15**	< 1.0	**1.80**	**1.07**	**1.50**	**1.05**	**1.1**	**2.14**	**1.27**	**1.44**	**0.934**	**1.83**	**0.896**	**1.03**
Sulfate	mg/L	N/A	N/A	--	--	**72**	**65.0**	**95**	**91**	**99**	**120**	**91**	**77.2**	**70.9**	**83.5**	**85.9**	**78.1**	**78.5**	**77.9**	**79.5**	**49.7**	**65.5**	**72.9**	**65.5**
Sulfide	mg/L	N/A	N/A	--	--	< 1.0	< 1.00	< 1.0	1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.00	< 1.00
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	**0.0226**	--	--	--	--	--	**0.326**	**0.243**	**0.293**	**0.335**	**0.333**	**0.401**	**0.310**	**0.397**	**0.456**	**0.422**	**0.318**	**0.337**
Total Manganese	mg/L	N/A	N/A	--	--	--	**0.0392**	--	--	--	--	--	**0.327**	**0.262**	**0.295**	**0.339**	**0.341**	**0.427**	**0.320**	**0.405**	**0.473**	**0.431**	**0.311**	**0.33**
Ferrous Iron	mg/L	N/A	N/A	--	--	< 0.10 HF	< 0.200 HF	< 0.10 HF	0.17 HF	0.15 HF	< 0.010	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.100	< 0.200	< 0.200
Total Iron	mg/L	N/A	N/A	--	--	< 0.10	**0.735**	< 0.10	0.13	< 0.010	< 0.010	< 0.1	< 0.1	**0.119**	< 0.1	< 0.1	< 0.1	< 0.1	< 0.100	< 0.100	0.108	< 0.100	< 0.100	< 0.100
Carbon Dioxide	mg/L	N/A	N/A	--	--	**130**	**	**130**	**2.4**	**1.8**	**1.8**	**1.3**	**160**	**180**	**180**	**170**	**170**	**170**	**170**	**130**	**190**	**180**	**	**170**
Methane	mg/L	N/A	N/A	--	--	< 0.58	**	< 0.58	< 0.58	77	77	<0.19	**0.36**	**0.88**	**2.3**	**0.45**	**0.64**	**0.52**	**1.1**	**0.62**	**3.0**	**0.54**	**	**0.58**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	**	--	**5.2**	**4.6**	**4.6**	**4.1**	**22**	**15**	**14**	**14**	**18**	**18**	**17**	**14**	**14**	**17**	**	**15**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	**8.5**	**	**5.8**	**1.6**	**1.6**	**1.6**	**1.4**	**2.9**	**2.4**	**1.5**	**1.2**	**2.1**	**1.6**	**2.1**	**2.6**	**1.3**	**1.2**	**	**7.1**
Laboratory Results - Organic Constituents																								
Volatile Organic Compounds																								
Benzene	µg/L	5.0*	9.0	<5.0	< 5.0	< 1.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1700	<5.0	< 5.0	< 2.0	--	< 2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	<5.0	< 5.0	< 1.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	< 5.0	< 1.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	<5.0	< 5.0	< 2.0	< 5.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																								
Acenaphthene	µg/L	2,000*	6,100	<0.50	< 0.50	< 0.20	< 10	< 0.20	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthylene	µg/L	470	3,100	<1.0	< 1.0	< 0.20	< 10	< 0.20	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Anthracene	µg/L	4,700	31, 000	<0.050	< 0.050	< 0.20	< 10	< 0.20	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	< 0.050	< 0.20	--	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	< 0.050	< 0.20	--	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	< 0.10	< 0.20	--	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	< 0.10	< 0.20	--	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	< 0.050	< 0.20	--	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	<0.050	< 0.050	< 0.20	--	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	< 0.10	< 0.20	--	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	<10	< 10	< 2.0	< 10	< 2.0	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	<0.10	< 0.10	< 0.20	< 10	< 0.20	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	<0.10	< 0.10	< 0.20	< 10	< 0.20	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	< 0.050	< 0.20	--	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	<10	< 10	< 2.0	< 10	< 2.0	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	< 10	< 2.0	< 10	< 2.0	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	<0.50	< 0.50	< 0.20	< 10	0.50	< 5.0	< 5.0	<9.9	<9.4	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenanthrene	µg/L	470	3,100	<0.050	< 0.050	< 0.20	< 10	< 0.20	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenol	µg/L	9,390	61,000	<10	< 10	< 0.98	< 10	< 0.98	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	<0.050	< 0.050	< 0.20	< 10	< 0.20	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Laboratory Results - Inorganic Constituents																								
Antimony	µg/L	6.3	40	< 20	< 20	< 20	< 40	< 20	--	--	--	--	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Arsenic	µg/L	50*	50*	< 50	< 50.0	< 20	< 50	< 20	--	--	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	**60.8**	**86.1**	**47**	**79.8**	**31**	**30**	**33**	**42**	**36**	**35.7**	**38.8**	**39.7**	**37.8**	**37.8**	**38.8**	**42**	**42.7**	**43.4**	**41.8**	**43**	**46**
Beryllium	mg/L	31	200	< 10	< 10	< 4.0	--	< 4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	< 5.0	< 5.0	< 5.0	--	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	< 10	< 10	< 20	< 10	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	< 20	< 20	< 40	< 20	< 40	< 40	< 40	< 40	< 40	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Zinc	µg/L	4,700	31,000	< 20	< 20	< 20	< 20	< 20	--	--	--	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Mercury	µg/L	2*	2*	< 0.20	< 0.20	< 0.20	< 0.5	< 0.20	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Cyanide	µg/L	310	2,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-12R								MW-12																
				02/24/17	08/24/16	04/06/16	02/06/13	02/09/12	02/15/11	2/11 DUP	02/23/10	08/12/09	06/06/06	03/08/06	12/21/05	09/29/05	03/25/05	12/14/04	10/04/04	06/09/04	03/03/04	12/17/03	09/09/03	06/10/03	03/12/03	12/10/02	09/18/02	11/06/01
Field Groundwater Quality Parameters																												
pH	SU	N/A	N/A	3.88	4.03	3.86	4.05	4.03	4.10	4.10	4.15	6.01	3.63	3.61	3.71	3.70	5.13	3.52	3.26	4.33	3.71	3.75	3.75	3.66	3.82	4.61	4.44	5.62
Specific Conductance	µS/cm	N/A	N/A	684.0	674.6	0.688	642	649	567	567	584	468	630	667	630	723	497	752	817	690	887	1492	1280	1196	968	617	964	788
Temperature	°Celsius	N/A	N/A	20.48	24.29	21.55	19.63	17.49	17.92	17.92	17.34	24.75	23.54	19.1	21.44	26.97	19.23	22.21	26.29	22.34	18.30	21.64	25.68	22.44	18.90	22.56	27.83	25.85
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	0.17	0.14	0.25	1.24	1.26	4.12	4.12	0.70	4.13	0.20	0.42	0.83	0.26	0.52	2.61	0.67	0.60	0.88	0.24	0.21	0.40	0.11	0.22	0.06	0.22
ORP	mV	N/A	N/A	220.9	228.3	291.7	295.4	54.2	239.0	239.0	312.1	-77.1	357.7	361.1	364.6	278.0	333.2	347.0	338.2	283	262.9	275.9	296	309.2	287.1	211.9	208.7	11.0
Turbidity	NTU	N/A	N/A	1.79	2.15	6.91	4.15	8.55	2.26	2.26	1.85	7.54	4.97	4.59	0.00[#]	4.82	4.61	2.99	2.17	0.73	1.26	0.24	2.03	0.25	0.90	0.00	7.60	8.42
Laboratory Results - Natural Attenuation Parameters																												
Nitrogen, Ammonia	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	**4.75**	**5.17**	**6.35**	**5.65**	**8.25**	**8.37**	**13.3**	**10.3**	**8.26**	**5.57**	**8.64**	**7.23**
Nitrogen, Nitrate	mg/L	N/A	N/A	--	--	--	**0.64**	**0.40**	**0.52**	**0.51**	**0.44**	< 0.050	--	--	--	--	**0.503**	**1.79**	**4.80**	< 0.5	**2.99**	**1.04**	< 0.0500	< 0.0500	**0.101**	< 0.050	**0.075**	< 0.050
Sulfate	mg/L	N/A	N/A	--	--	--	**290**	**270**	**260**	**250**	**230**	--	--	--	--	--	**227**	**161**	**164**	**134**	**517**	**487**	**607**	**378**	**481**	**301**	**457**	**281**
Sulfide	mg/L	N/A	N/A	--	--	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**130**	--	--	--	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.00	< 1.00	< 1.00
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.889**	**0.953**	**1.10**	**0.923**	**1.06**	**1.25**	**1.60**	**1.44**	**1.44**	**0.950**	**1.36**	**0.974**
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.820**	**0.965**	**1.06**	**0.891**	**1.43**	**1.19**	**1.62**	**1.44**	**1.46**	**0.945**	**1.22**	**1.01**
Ferrous Iron	mg/L	N/A	N/A	--	--	--	**14** HF	**15** HF	**12** HF	**12** HF	**9.3**	**36**	--	--	--	--	**10.1**	**9.4**	**8.9**	**34**	**25.0**	**30.1**	**67.6**	**1.5**	**47.1**	**35.5**	**38.0**	**21.4**
Total Iron	mg/L	N/A	N/A	--	--	--	**15**	**17**	**13**	**13**	**9.8**	**41**	--	--	--	--	**10.2**	**10.6**	**11.3**	**25.2**	**29.1**	**31.0**	**68.4**	**46.3**	**49.5**	**25.5**	**43.9**	**79.6**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	**110**	**2.2**	**1.3**	**1.3**	**2.4**	**0.85**	--	--	--	--	**180**	**160**	**150**	**170**	**170**	**120**	**130**	**180**	**200**	**210**	**180**	**160**
Methane	mg/L	N/A	N/A	--	--	--	**51**	**79**	**31**	**34**	**36**	**1.7**	--	--	--	--	**14**	**6.9**	**4.3**	**25**	**10**	**16**	**7.6**	**21**	**43**	**82**	**33**	**40**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	**5.6**	**3.7**	**4.3**	**3.9**	**4.4**	--	--	--	--	**26**	**16**	**15**	**15**	**20**	**18**	**13**	**14**	**18**	**15**	**22**	**11**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	**6.3**	**1.8**	**1.4**	**1.5**	**1.3**	**1.5**	--	--	--	--	**4.6**	**1.6**	**2.3**	**0.81**	**1.1**	**1.5**	**2.4**	**0.81**	**0.72**	**7.2**	**8.2**	**0.98**
Laboratory Results - Organic Constituents																												
Volatile Organic Compounds																												
Benzene	µg/L	5.0*	9.0	<5.0	<5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**5.9**	**31**
Carbon Disulfide	µg/L	329	1700.0	<5.0	<5.0	< 5.0	< 2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	<5.0	<5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	<5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**12**
Total Xylenes	µg/L	31,000	200,000	<5.0	<5.0	< 5.0	< 2.0	< 5.0	< 5.0	< 5.0	**6.8**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																												
Acenaphthene	µg/L	2,000*	6,100	<0.50	<0.50	< 0.50	< 0.19	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthylene	µg/L	470	3,100	<1.0	<1.0	< 1.0	< 0.19	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Anthracene	µg/L	4,700	31, 000	**0.072**	**0.16**	**0.066**	< 0.19	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	<0.050	< 0.050	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	<0.050	< 0.050	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	< 0.10	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	< 0.10	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	< 0.050	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	<0.050	<0.050	< 0.050	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	< 0.10	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	<10	<10	< 10	< 1.9	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	<0.10	<0.10	< 0.10	< 0.19	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	<0.10	<0.10	< 0.10	< 0.19	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	<0.050	< 0.050	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	<10	<10	< 10	< 1.9	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	<10	< 10	< 1.9	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	<0.050	**1.1**	< 0.50	< 0.19	**5.5**	< 5.0	< 5.0	**33**	<9.8	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**26**	**24**
Phenanthrene	µg/L	470	3,100	<0.050	<0.050	< 0.050	< 0.19	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenol	µg/L	9,390	61,000	<10	<10	< 10	< 0.97	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	**0.18**	**1.2**	**0.17**	**0.47**	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Laboratory Results - Inorganic Constituents																												
Antimony	µg/L	6.3	40	--	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Arsenic	µg/L	50*	50*	--	< 50	< 50	< 20	--	--	--	--	--	--	--	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	--	< 20	< 20	< 10	**12**	**15**	**15**	**20**	**40**	< 20	< 20	**22.1**	< 20	< 20	< 20	21.0	< 20	< 20	< 20	**24.8**	< 20	< 20	< 20	**35**	**31**
Beryllium	µg/L	31	200	--	< 10	< 10.0	< 4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	< 5.0	< 10	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	--	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	**21.1**	**30.5**	**32.9**	**29.3**	**14.5**	**34.2**	**39.8**	< 10	**39.9**	**21.8**	**40.5**	**55.2**	**26**	< 10	**18**	< 10
Lead	µg/L	15*	15*	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	14.7	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	<20	**38.9**	< 40	< 40	< 40	< 40	< 40	< 40	< 20	24.2	24.5	< 20	< 20	**28.8**	**38.4**	< 20	**44.5**	**25.3**	**36.8**	**41**	**32**	< 20	< 10	< 20
Zinc	µg/L	4,700	31,000	--	<20	**12.1**	**76**	--	--	--	--	--	--	--	--	--	**111**	**183**	**246**	**74.2**	**320**	**149**	**215**	**254**	**187**	**51**	**107**	**26**
Mercury	µg/L	2*	2*	--	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.54**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Cyanide	µg/L	310	2,000	--	< 10	< 10	**74**	**73**	**66**	**66**	**46**	< 10	< 10	< 10	< 10	**12**	< 10	< 10	**44**	**18**	**39**	**21**	**33**	**10**	**27**	**19**	**30**	**19**

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-12IR																	
				02/24/17	08/24/16	08/06/13	02/05/13	11/06/12	08/08/12	08/12 DUP	05/15/12	02/09/12	11/15/11	08/09/11	05/03/11	05/11 DUP	02/15/11	11/10/10	08/10/10	05/10/10	02/24/10
Field Groundwater Quality Parameters																					
pH	SU	N/A	N/A	5.58	5.60	5.69	5.75	5.56	5.16	5.16	6.06	5.52	5.64	5.65	5.48	5.48	5.56	5.47	5.65	5.51	5.78
Specific Conductance	µS/cm	N/A	N/A	625.7	613.2	634	605	584	593	593	595	564	559	561	532	532	479	497	516	505	506
Temperature	°Celsius	N/A	N/A	21.62	22.28	24.30	21.06	19.07	22.92	22.92	24.91	18.92	24.05	24.57	23.52	23.52	19.85	23.72	25.71	20.70	13.52
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	0.22	0.10	0.76	0.42	0.34	0.21	0.21	0.59	0.21	0.22	0.16	0.23	0.23	1.29	0.19	2.7	0.39	7.04
ORP	mV	N/A	N/A	83.4	59.2	91.6	66.8	101.6	66.5	66.5	31.2	72.6	81.7	212.4	-405.7	-405.7	78.3	93.6	-37.9	98	64.6
Turbidity	NTU	N/A	N/A	9.20	7.50	9.20	9.09	0.29	1.72	1.72	8.53	9.59	4.6	9.21	9.60	9.60	9.26	0.49	5.72	9.83	50.7
Laboratory Results - Natural Attenuation Parameters																					
Nitrogen, Ammonia	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, Nitrate	mg/L	N/A	N/A	--	--	--	< 0.050	--	--	--	--	< 0.050	--	--	--	--	< 0.050	--	--	--	< 0.050
Sulfate	mg/L	N/A	N/A	--	--	--	**210**	--	--	--	--	**190**	--	--	--	--	**160**	--	--	--	**140**
Sulfide	mg/L	N/A	N/A	--	--	--	< 1.0	--	--	--	--	< 1.0	--	--	--	--	< 1.0	--	--	--	< 1.0
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ferrous Iron	mg/L	N/A	N/A	--	--	--	**14** HF	--	--	--	--	**11** HF	--	--	--	--	**9.2** HF	--	--	--	**7.5**
Total Iron	mg/L	N/A	N/A	--	--	--	**14**	--	--	--	--	**14**	--	--	--	--	**12**	--	--	--	**32**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	**100**	--	--	--	--	**2.3**	--	--	--	--	**1.4**	--	--	--	**1.6**
Methane	mg/L	N/A	N/A	--	--	--	**120**	--	--	--	--	**240**	--	--	--	--	**56**	--	--	--	**65**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	**18**	--	--	--	--	**5.3**	--	--	--	--	**4.6**	--	--	--	**3.4**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	**6.3**	--	--	--	--	**1.6**	--	--	--	--	**1.6**	--	--	--	**1.2**
Laboratory Results - Organic Constituents																					
Volatile Organic Compounds																					
Benzene	µg/L	5*	9	<5.0	<5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.4**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	<5.0	<5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	<5.0	<5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	<5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	< 5.0
Total Xylenes	µg/L	31,000	200,000	<5.0	<5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	< 5.0
Semivolatile Organic Compounds																					
Acenaphthene	µg/L	2,000*	6,100	**1.6**	**6.8**	< 10	**14**	**7.9**	**15**	**14**	**8.4**	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	µg/L	470	3,100	<1.0	**4.4**	< 10	**14**	**7.8**	**16**	**15**	**8.5**	--	--	--	--	--	--	--	--	--	--
Anthracene	µg/L	4,700	31,000	**0.24**	**0.43**	< 10	**0.66**	**0.67**	**0.8**	**0.8**	**0.61**	--	--	--	--	--	--	--	--	--	--
Benzo[a]anthracene	µg/L	1.17	3.92	**0.26**	**0.60**	**0.47**	**0.62**	**0.58**	**0.72**	**0.72**	**0.38**	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	**0.072**	< 0.20	< 0.19	< 0.23	< 0.19	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	< 0.20	< 0.19	< 0.23	< 0.19	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	< 10	< 0.19	< 0.23	< 0.19	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	< 10	< 0.19	< 0.23	< 0.19	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	**0.17**	**0.41**	< 10	**0.5**	**0.49**	**0.56**	**0.59**	**0.34**	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	< 0.20	< 0.19	< 0.23	< 0.19	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	<10	<10	< 10	< 1.9	< 2.3	< 1.9	< 1.9	< 2.2	--	--	--	--	--	--	--	--	--	--
Fluoranthene	µg/L	1,000*	4,100	**3.1**	**7.5**	< 10	**11**	**9.5**	**11**	**10**	**6.3**	--	--	--	--	--	--	--	--	--	--
Fluorene	µg/L	1,000*	4,100	**3.6**	**9.5**	**14**	**27**	**20**	**34**	**33**	**20**	--	--	--	--	--	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	<0.050	< 0.20	< 0.19	< 0.23	< 0.19	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	<10	<10	< 10	< 1.9	< 2.3	< 1.9	< 1.9	< 2.2	--	--	--	--	--	--	--	--	--	--
3 & 4 Methylphenol	µg/L	78	510	<10	<10	< 10	< 1.9	< 2.3	< 1.9	< 1.9	< 2.2	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	20*	20*	**7.9**	<0.50	< 10	**3.4**	**0.25**	**0.49**	**0.46**	**6.7**	**18**	< 5.0	< 5.0	**15**	**14**	**6.3**	**9.1**	< 5.0	**80**	< 9.8
Phenanthrene	µg/L	470	3,100	**0.25**	**0.36**	< 10	**0.97**	**1.1**	**1.2**	**1.1**	**1.2**	--	--	--	--	--	--	--	--	--	--
Phenol	µg/L	9,390	61,000	<10	<10	< 10	< 0.97	< 1.2	< 0.97	< 0.96	< 1.1	--	--	--	--	--	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	**4.2**	**8.7**	< 10	**14**	**13**	**15**	**15**	**9.3**	--	--	--	--	--	--	--	--	--	--
Laboratory Results - Inorganic Constituents																					
Antimony	µg/L	6.3	40	--	<0.0200	< 20.0	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	50*	50*	--	<0.0500	< 50.0	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	2,000	7,200	--	< 20	**31.7**	**23**	**25**	**27**	**27**	**25**	**26**	**32**	**30**	**26**	**26**	**27**	--	--	--	**100**
Beryllium	µg/L	31	200	--	< 10	< 10.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	**11**
Copper	µg/L	630	4,100	--	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 20	< 20	< 20	< 20	--	--	--	< 20
Lead	µg/L	15*	15*	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10
Nickel	µg/L	100	2,000	--	< 20	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 20	< 40	< 40	< 40	< 40	--	--	--	< 40
Zinc	µg/L	4,700	31,000	--	< 20	**27.6**	**21**	**21**	**24**	**23**	**20**	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	2*	2*	--	<0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--	--	--	--	--
Total Cyanide	µg/L	310	2,000	--	**35**	**16**	**28**	**74**	**14**	**16**	**12**	**18**	--	--	--	--	**13**	--	--	--	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemica
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-12I (continued)																				
				08/14/09	06/07/06	06/06 DUP	03/09/06	12/21/05	09/29/05	09/05 DUP	03/16/05	03/05 DUP	12/16/04	10/04/04	10/04 DUP	06/09/04	03/04/04	12/17/03	09/09/03	06/10/03	03/12/03	12/10/02	09/18/02	11/07/01
Field Groundwater Quality Parameters																								
pH	SU	N/A	N/A	5.98	5.81	5.81	5.65	5.59	5.49	5.49	5.56	5.56	5.49	5.59	5.59	6.08	5.81	5.83	5.81	5.92	5.86	5.79	5.89	5.88
Specific Conductance	µS/cm	N/A	N/A	391	460	460	395	359	407	407	381	381	413	388	388	463	472	750	517	458	482	513	546	482
Temperature	°Celsius	N/A	N/A	27.54	21.93	21.93	21.10	21.98	24.39	24.39	20.77	20.77	23.84	24.82	24.82	21.57	21.05	23.16	24.52	21.94	21.34	23.53	25.2	24.37
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	6.61	0.19	0.19	0.25	0.28	0.15	0.15	0.80	0.80	3.06	2.22	2.22	0.56	0.28	0.26	0.26	0.06	0.09	0.38	0.05	0.25
ORP	mV	N/A	N/A	-105.3	-71.9	-71.9	-28.3	-94.2	-99.7	-99.7	113.3	113.3	89.9	37.1	37.1	18.7	77.6	-65.2	13.7	-18.5	11.7	20.4	21	-36.7
Turbidity	NTU	N/A	N/A	8.81	0.42	0.42	4.2	0.00[#]	1.10	1.10	1.09	1.09	0.96	0.73	0.73	1.96	4.95	--	1.10	26.1	4.3	3.2	1.5	6.8
Laboratory Results - Natural Attenuation Parameters																								
Nitrogen, Ammonia	mg/L	N/A	N/A	--	--	--	--	--	--	--	**2.14**	**2.44**	**3.01**	**2.57**	--	**2.44**	**2.78**	**2.94**	**3.41**	**3.09**	**2.72**	**2.51**	**2.86**	**2.86**
Nitrogen, Nitrate	mg/L	N/A	N/A	< 0.050	--	--	--	--	--	--	**0.186**	**0.139**	**0.209**	**0.0732**	--	< 0.5	< 0.500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	0.314
Sulfate	mg/L	N/A	N/A	**110**	--	--	--	--	--	--	**102**	**103**	**93.8**	**112**	--	**248**	**134**	**126**	**193**	**110**	**124**	**112**	**140**	**232**
Sulfide	mg/L	N/A	N/A	< 1.0	--	--	--	--	--	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.00	< 1.00	< 1.00
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	**1.36**	**1.40**	**1.39**	**1.22**	--	**1.47**	**1.44**	**1.49**	**1.28**	**1.32**	**1.55**	**1.84**	**1.76**	**1.69**
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	**1.46**	**1.46**	**1.34**	**1.19**	**1.26**	**1.44**	**1.53**	**1.46**	**1.22**	**1.39**	**1.61**	**1.67**	**1.62**	**1.75**
Ferrous Iron	mg/L	N/A	N/A	**4.6**	--	--	--	--	--	--	**10.6**	**10.5**	**7.9**	**7.0**	--	**30.2**	**27.1**	**19.6**	**25.7**	**15.6**	**24.4**	**37.3**	**27.6**	**25.7**
Total Iron	mg/L	N/A	N/A	**4.6**	--	--	--	--	--	--	**9.58**	**9.39**	**9.36**	**6.72**	**7.33**	**24.7**	**25.0**	**24.4**	**24.0**	**67**	**25.7**	**27.5**	**27.9**	**31.4**
Carbon Dioxide	mg/L	N/A	N/A	**0.24**	--	--	--	--	--	--	**200**	**200**	**200**	**190**	--	**170**	**44**	**160**	**38**	**170**	**180**	**170**	**160**	**160**
Methane	mg/L	N/A	N/A	**0.3**	--	--	--	--	--	--	**48**	**15**	**82**	**63**	--	**33**	**3,000**	**39**	**0.91**	**67**	**90**	**69**	**54**	**62**
Dissolved Nitrogen	mg/L	N/A	N/A	**4.5**	--	--	--	--	--	--	**25**	**23**	**15**	**9.2**	--	**19**	**21**	**18**	**12**	**14**	**17**	**16**	**16**	**12**
Dissolved Oxygen	mg/L	N/A	N/A	**1.7**	--	--	--	--	--	--	**5.2**	**5.6**	**1.4**	**7.4**	--	**0.97**	**0.85**	**1.2**	**2.9**	**0.60**	**0.93**	**6.7**	**6.0**	**0.74**
Laboratory Results - Organic Constituents																								
Volatile Organic Compounds																								
Benzene	µg/L	5*	9	< 5.0	**140**	**140**	**180**	**460**	**630**	**590**	**26**	**24**	**69**	**21**	**23**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	< 5.0	**7.1**	**6.8**	**6.3**	**15**	**23**	**24**	< 5.0	< 5.0	**6.2**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	< 5.0	< 5.0	**5.0**	**5.9**	**16**	**22**	**22**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	< 5.0	**44**	**44**	**37**	**82**	**110**	**110**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																								
Acenaphthene	µg/L	2,000*	6,100	--	--	--	--	--	--	--	**18**	**18**	< 10	**15**	**16**	**24**	**22**	**37**	**23**	**17**	**20**	**33**	**27**	**64**
Acenaphthylene	µg/L	470	3,100	--	--	--	--	--	--	--	**52**	**50**	< 10	**43**	**46**	**71**	**66**	**90**	**60**	**52**	**66**	**100**	**75**	**22**
Anthracene	µg/L	4,700	31,000	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**13**	< 10	< 10	< 10	12	< 10	< 10
Fluorene	µg/L	1,000*	4,100	--	--	--	--	--	--	--	**40**	**39**	< 10	**35**	**38**	**48**	**46**	**69**	**46**	**36**	**43**	**65**	**51**	**41**
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	< 9.4	**530**	**580**	**440**	**710**	**810**	**910**	**63**	**66**	< 10	**57**	**59**	**18**	< 10	**25**	< 10	**39**	**46**	**52**	**24**	**22**
Phenanthrene	µg/L	470	3,100	--	--	--	--	--	--	--	**14**	**13**	< 10	**11**	**12**	**14**	**14**	**20**	< 10	**11**	**15**	**24**	**15**	**15**
Phenol	µg/L	9,390	61,000	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--
Pyrene	µg/L	1,000*	3,100	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	**10**	**11**	**13**	**15**	< 10	< 10	**12**	**15**	**11**	< 10
Laboratory Results - Inorganic Constituents																								
Antimony	µg/L	6.3	40	--	--	--	--	--	--	--	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Arsenic	µg/L	50*	50*	--	--	--	--	--	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	**64**	**164**	**159**	**172**	**206**	**216**	**204**	**69.9**	**69.5**	**85.5**	**77.5**	**82.8**	**68.6**	**70.0**	**74.8**	**487**	**74.9**	**80.6**	**76**	**72**	**81**
Beryllium	µg/L	31	200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**12.3**	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	< 40	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Zinc	µg/L	4,700	31,000	--	--	--	--	--	--	--	< 20	< 20	**21.9**	**27.6**	**25.5**	< 20	**25.1**	< 20	**41.2**	**96.2**	**23**	< 20	< 20	< 20
Mercury	µg/L	2*	2*	--	--	--	--	--	--	--	< 0.5	< 0.5	< 0.5	0.05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Cyanide	µg/L	310	2,000	**18**	**14**	**13**	**12**	**12**	< 10	< 10	< 10	< 10	**21**	**11**	**12**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemica
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-14																					
				02/24/17	08/25/16	02/05/13	02/15/12	02/22/11	02/23/10	08/11/09	06/06/06	03/09/06	12/21/05	09/30/05	3/1505	12/14/04	10/01/04	06/08/04	03/03/04	12/16/03	09/08/03	06/11/03	03/11/03	12/10/02	09/17/02	11/08/01
Field Groundwater Quality Parameters																									
pH	SU	N/A	N/A	6.21	6.13	6.08	6.18	6.27	6.14	6.3	6.20	6.32	6.38	6.25	6.33	7.28	6.20	6.33	6.32	6.46	6.34	6.4	6.43	6.28	6.14	6.32
Specific Conductance	µS/cm	N/A	N/A	158.90	236.8	212	184	177	179	241	229	210	198	288	200	258	252	296	172	236	289	269	243	376	380	502
Temperature	°Celsius	N/A	N/A	22.09	24.99	17.04	19.74	17.87	15.20	30.97	22.75	18.28	18.88	26.47	17.93	19.33	26.73	23.39	15.66	19.42	26.43	22.86	17.15	20.85	26.37	24.36
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	5.24	0.74	3.22	2.77	3.62	3.82	4.81	0.33	0.99	3.74	0.68	3.71	0.57	1.32	1.34	4.42	4.35	1.03	1.8	2.66	1.39	0.55	0.24
ORP	mV	N/A	N/A	131.10	64.8	230.1	-36.6	6.3	108	53.9	82.1	79.1	144.3	25.9	141.0	120.5	108.9	91.2	108.2	117.6	3.4	37.2	201.0	79.9	168.9	-23.5
Turbidity	NTU	N/A	N/A	15.7	4.01	1.86	23.70	41.7	9.27	9.09	4.89	9.68	10.56	4.96	9.53	3.15	7.5	5.40	21.6	--	4.02	15.4	17.9	11.4	12.8	8.89
Laboratory Results - Natural Attenuation Parameters																									
Nitrogen, Ammonia	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	< 0.20	**0.22**	< 0.20	**0.38**	< 0.20	< 0.20	**0.33**	< 0.200	< 0.200	**1.92**	**1.09**	**3.59**
Nitrogen, Nitrate	mg/L	N/A	N/A	--	--	**0.81**	**0.18**	**0.23**	**1.0**	**0.086**	--	--	--	--	**0.266**	< 0.0500	**0.121**	< 0.0500	**1.17**	**1.42**	**0.596**	**0.779**	**1.63**	**0.469**	**1.35**	< 0.500
Sulfate	mg/L	N/A	N/A	--	--	**21**	**71**	**20**	**19**	**22**	--	--	--	--	**20.8**	**18.0**	**22.3**	**16.5**	**22.0**	**22.4**	**24.7**	**17.9**	**25.1**	**36.2**	**64.5**	**25.8**
Sulfide	mg/L	N/A	N/A	--	--	< 1.0	**1.4**	< 1.0	< 1.0	< 1.0	--	--	--	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	**0.0534**	**0.0996**	**0.126**	**0.355**	**0.0168**	**0.367**	**0.140**	**0.128**	< 0.0050	**0.922**	**0.368**	**3.02**
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	**0.0787**	**0.107**	**0.136**	**0.417**	**0.0308**	**0.551**	**0.174**	**0.231**	**0.643**	**1.13**	**0.347**	**3.08**
Ferrous Iron	mg/L	N/A	N/A	--	--	< 0.10 HF	**3.5** HF	< 0.010 HF	< 0.010	< 0.010	--	--	--	--	< 0.1	**0.1**	**0.1**	**0.2**	< 0.1	< 0.1	**0.1**	**0.1**	< 0.100	**1.60**	**0.206**	**3.47**
Total Iron	mg/L	N/A	N/A	--	--	< 0.10	**4.2**	**1.0**	**0.59**	**0.57**	--	--	--	--	**0.380**	**0.307**	**0.320**	**0.351**	**0.74**	**0.795**	**0.333**	**1.68**	**3.87**	**6.75**	**1.39**	**3.06**
Carbon Dioxide	mg/L	N/A	N/A	--	--	**54**	**1.7**	**0.47**	**0.50**	**0.46**	--	--	--	--	**53**	**85**	**75**	**78**	**46**	**50**	**64**	**82**	**60**	**84**	**66**	**120**
Methane	mg/L	N/A	N/A	--	--	**1.8**	**9.7**	**7.9**	<0.19	**1.5**	--	--	--	--	**22**	**230**	**48**	**5.4**	**0.95**	**3.9**	**2.4**	**10**	**3.5**	**40**	**11**	**87**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	**20**	**5.4**	**4.6**	**4.1**	**4.5**	--	--	--	--	**23**	**20**	**16**	**18**	**20**	**18**	**14**	**14**	**17**	**17**	**14**	**13**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	**8.6**	**1.7**	**1.6**	**1.5**	**1.6**	--	--	--	--	**4.7**	**3.5**	**3.0**	**2.8**	**4.9**	**5.9**	**2.2**	**1.5**	**3.7**	**8.4**	**5.6**	**2.0**
Laboratory Results - Organic Constituents																									
Volatile Organic Compounds																									
Benzene	µg/L	5.0*	9.0	<5.0	<5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	<5.0	<5.0	< 2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	<5.0	<5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	<5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Naphthalene	µg/L	31,000	200,000	<5.0	<5.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																									
Acenaphthene	µg/L	2,000*	6,100	<0.50	**4.1**	< 0.22	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthylene	µg/L	470	3,100	<1.0	**4.0**	< 0.22	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Anthracene	µg/L	4,700	31, 000	<0.050	**0.12**	< 0.22	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	<0.050	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	**0.14**	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	<0.050	<0.050	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	<10	<10	< 2.2	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	<0.10	**0.38**	< 0.22	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	<0.10	<0.10	< 0.22	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	**1.9**	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	<10	<10	< 2.2	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	<10	< 2.2	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	<0.50	<0.50	< 0.22	< 5.0	< 5.0	< 10	<9.4	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenanthrene	µg/L	470	3,100	<0.050	**0.051**	< 0.22	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenol	µg/L	9,390	61,000	<10	<10	< 1.1	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	<0.050	**0.84**	< 0.22	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Laboratory Results - Inorganic Constituents																									
Antimony	µg/L	6.3	40	--	< 20	< 20	--	--	--	--	--	--	--	--	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Arsenic	µg/L	50*	50*	--	< 20	< 20	--	--	--	--	--	--	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	--	**112**	**90**	**120**	**89**	**83**	**140**	**112**	**98.1**	**356**	**156**	**97.8**	**119**	**114**	**142**	**83.2**	**106**	**121**	**120**	**117**	**171**	**180**	**325**
Beryllium	µg/L	31	200	--	<10	< 4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	<5.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**17.6**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	--	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 10	**44.7**	< 10	**1,640**	**617**	**10.2**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**88.8**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	< 40	< 40	< 40	< 40	< 40	< 40	< 20	< 20	< 20.0	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Zinc	µg/L	4,700	31,000	--	< 20	< 20	--	--	--	--	--	--	--	--	**297**	**126**	< 20	**22.6**	< 20	< 20	< 20	**24.3**	**47**	**36**	< 20	**37**
Mercury	µg/L	2*	2*	--	< 0.20	< 0.20	--	--	--	--	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Cyanide	µg/L	310	2,000	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**12**	< 10	< 10	**43**	**52**	**120**

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 2 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-14I																								
				02/23/17	08/25/16	04/05/16	02/04/13	02/15/12	02/22/11	02/23/10	08/11/09	06/06/06	03/09/06	12/21/05	09/28/05	03/15/05	12/15/04	09/30/04	07/15/04	06/09/04	03/03/04	12/16/03	09/08/03	06/11/03	03/11/03	03/03 DUP	12/10/02	09/17/02	11/08/01
Field Groundwater Quality Parameters																												
pH	SU	N/A	N/A	5.93	6.24	6.52	6.69	5.83	5.87	6.18	5.95	6.24	6.17	6.11	6.31	6.15	7.39	6.15	--	6.10	6.11	6.2	5.15	6.38	6.27	6.27	6.08	6.13	6.17
Specific Conductance	µS/cm	N/A	N/A	298.50	514.8	0.4	269	250	278	315	423	448	416	401	432	399	417	467	--	463	393	436	421	421	453	453	429	464	461
Temperature	°Celsius	N/A	N/A	21.24	24.83	19.77	19.53	19.58	20.67	18.22	26.35	23.02	20.43	22.05	23.40	20.69	22.48	24.15	--	20.95	19.96	21.57	23.43	20.86	20.58	20.58	22.27	23.47	22.61
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	0.11	0.19	0.21	0.32	0.85	0.39	1.46	5.67	0.20	0.40	0.42	0.55	1.71	0.19	0.28	--	0.21	0.57	0.22	0.34	0.03	0.09	0.09	0.06	0.16	0.19
ORP	mV	N/A	N/A	56.60	-27.7	4.9	-56.4	41.2	-9.5	27	-9.9	-37.3	-8.2	-13.6	-5.9	-13.4	-148.1	-59.1	--	-86.6	58.0	-109.2	-79.3	-151.8	***	***	-43.2	-49.9	-79.4
Turbidity	NTU	N/A	N/A	2.32	2.89	24.9	3.62	8.23	8.27	1.52	1.41	0.33	1.46	2.54	0.50	1.52	2.82	0.65	--	0.40	2.83	--	1.49	9.72	4.92	4.92	2.30	1.31	9.50
Laboratory Results - Natural Attenuation Parameters																												
Nitrogen, Ammonia	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	**11.7**	**12.0**	**11.5**	--	**10.6**	**12.8**	**11.6**	**11.4**	**11.1**	**12**	**12.2**	**10.5**	**12.2**	**11.2**
Nitrogen, Nitrate	mg/L	N/A	N/A	--	--	--	< 0.050	**0.18**	< 0.050	0.097	< 0.050	--	--	--	--	< 0.500	< 0.0500	< 0.0500	--	< 0.5	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	**0.297**
Sulfate	mg/L	N/A	N/A	--	--	--	**44**	**18**	**54**	**32**	**41**	--	--	--	--	**47.3**	**39.5**	**39.6**	--	**73.7**	**49.0**	**47.7**	**32.0**	**17.2**	**36.9**	**39.6**	**43.2**	**40.5**	**31.5**
Sulfide	mg/L	N/A	N/A	--	--	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	--	--	< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.00	< 1.00	< 1.00
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	**1.62**	**1.53**	**1.78**	--	**1.5**	**1.57**	**1.77**	**1.92**	**1.81**	**1.76**	**1.7**	**1.63**	**1.66**	**1.35**
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	**1.55**	**1.56**	**1.78**	--	**1.51**	**1.52**	**1.64**	**1.95**	**1.80**	**1.77**	**1.87**	**1.55**	**1.64**	**1.88**
Ferrous Iron	mg/L	N/A	N/A	--	--	--	**6.4** HF	< 0.10 HF	**3.4** HF	**7.5**	**6.8**	--	--	--	--	**17.7**	**12.2**	**13.5**	--	**16.7**	**6.2**	**6.5**	**12.6**	**13.0**	**12.2**	**13.4**	**14.5**	**14.1**	**11.1**
Total Iron	mg/L	N/A	N/A	--	--	--	**7.8**	**0.20**	**3.9**	**8.6**	**16**	--	--	--	--	**8.89**	**11.4**	**12.5**	--	**11.6**	**7.15**	**10.4**	**12.7**	**14.9**	**11.7**	**12.3**	**9.94**	**11.4**	**12.9**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	**87**	**830**	**1.0**	**1.5**	**1.3**	--	--	--	--	**160**	**170**	**160**	--	**180**	**160**	**140**	**96**	**160**	**170**	**200**	**170**	**180**	**150**
Methane	mg/L	N/A	N/A	--	--	--	**74**	**2.4**	**14**	**82**	**69**	--	--	--	--	**320**	**430**	**420**	--	**400**	**44**	**340**	**550**	**610**	**470**	**700**	**520**	**650**	**280**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	**18**	**5100**	**4.2**	**3.1**	**4.1**	--	--	--	--	**26**	**15**	**16**	--	**15**	**17**	**20**	**14**	**14**	**18**	**16**	**16**	**17**	**13**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	**5.0**	**1800**	**1.4**	**1.0**	**1.4**	--	--	--	--	**4.2**	**1.1**	**1.2**	--	**0.44**	**0.89**	**3.6**	**0.53**	**0.66**	**2.9**	**0.55**	**6.6**	**6.4**	**0.79**
Laboratory Results - Organic Constituents																												
Volatile Organic Compounds																												
Benzene	µg/L	5.0*	9.0	<5.0	<5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**8.2**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	<5.0	<5.0	< 5.0	< 2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	<5.0	<5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**16**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**10**	**7.7**	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	<5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Naphthalene	µg/L	31,000	200,000	<5.0	<5.0	< 5.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**5.3**	< 5.0	< 5.0
Semivolatile Organic Compounds																												
Acenaphthene	µg/L	2,000*	6,100	**1.9**	**4.1**	**4.4**	**3.4**	--	--	--	--	--	--	--	--	**38**	**48**	**43**	< 5.0	**24**	**20**	**29**	**38**	**57**	**33** J	**37** J	**35**	**36**	< 10
Acenaphthylene	µg/L	470	3,100	**1.8**	**4.0**	**3.3**	**1.2**	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**41**
Anthracene	µg/L	4,700	31, 000	<0.050	**0.12**	**0.056**	< 0.19	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	<0.050	< 0.050	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.392	<0.050	**0.14**	< 0.050	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	< 0.10	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	< 0.10	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	12	39	<0.050	<0.050	< 0.050	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	<0.050	<0.050	< 0.050	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.392	<0.10	<0.10	< 0.10	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	<10	<10	< 10	< 1.9	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	**0.11**	**0.38**	**0.11**	**0.48**	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	**0.77**	<0.10	**1.60**	**0.89**	--	--	--	--	--	--	--	--	**11**	**14**	**11**	< 10	< 10	< 10	< 10	< 10	**12**	< 10	< 10	< 10	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	**1.9**	< 0.050	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	<10	<10	< 10	< 1.9	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	<10	< 10	< 1.9	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	<0.50	<0.50	< 0.50	< 0.19	< 5.0	< 5.0	< 10	<9.9	< 10	**80**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**23**	**19**	**21**	**58**	**48**	**24**
Phenanthrene	µg/L	470	3,100	<0.050	**0.051**	< 0.050	< 0.19	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenol	µg/L	9,390	61,000	<10	<10	< 10	**1.2**	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	**0.29**	**0.84**	**0.27**	**0.93**	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Laboratory Results - Inorganic Constituents																												
Antimony	µg/L	6.3	40	--	< 20	< 20	< 20	--	--	--	--	--	--	--	--	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Arsenic	µg/L	50*	50*	--	< 50	< 50	< 20	--	--	--	--	--	--	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	--	**112**	**129**	**71**	**180**	**180**	**300**	**220**	**276**	**281**	**287**	**301**	**296**	**292**	**339**	**292**	**292**	**277**	**292**	**369**	**343**	**379**	**404**	**314**	**314**	**394**
Beryllium	µg/L	31	200	--	< 10	< 10	< 4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	--	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	< 20	< 20	< 40	< 40	< 40	< 40	< 40	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Zinc	µg/L	4,700	31,000	--	< 20	**20.9**	< 20	--	--	--	--	--	--	--	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Mercury	µg/L	2*	2*	--	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Cyanide	µg/L	310	2,000	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**14**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 2 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-15																										
				02/23/17	08/25/16	04/06/16	4/16 DUP	08/12/15	02/17/15	02/06/13	02/13 DUP	02/14/12	02/12 DUP	02/23/11	02/25/10	08/12/09	06/06/06	03/08/06	12/21/05	09/28/05	03/16/05	12/14/04	09/30/04	06/08/04	03/03/04	12/16/03	09/09/03	06/10/03	03/12/03	12/10/02	09/19/02	11/06/01
Field Groundwater Quality Parameters																														
pH	SU	N/A	N/A	5.11	5.68	5.45		5.71	5.09	4.64		4.92		5.37	5.56	5.40	5.74	6.06	5.74	5.69	6.20	5.84	6.16	5.95	5.98	5.69	5.77	6.05	6.11	5.80	5.99	5.98
Specific Conductance	µS/cm	N/A	N/A	979.90	811.3	400		880	851	1044		938		485	774	987	915	781	795	1165	568	828	650	1,022	1,000	1532	952	717	891	754	934	976
Temperature	°Celsius	N/A	N/A	18.47	26.16	20.45		24.28	14.83	16.01		15.57		14.96	11.36	23.86	21.23	17.58	19.02	25.54	16.39	20.03	25.08	21.11	16.63	20.66	24.33	21.06	16.85	20.10	24.28	22.16
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	0.23	0.24	0.33		0.18	0.66	0.47		0.39		1.13	0.59	3.07	0.24	0.52	0.79	0.28	1.20	2.97	0.76	1.04	0.69	0.18	0.24	0.34	0.58	1.79	0.10	1.5
ORP	mV	N/A	N/A	180.00	24.1	116.5		-18.3	99.7	301.1		73.2		210.3	154.4	-187	192.3	157.2	220.8	-18.1	219.9	233.5	47.9	122.3	106.1	69.1	31.2	118.1	250.3	87.4	6.00	30.0
Turbidity	NTU	N/A	N/A	1.23	3.40	11.10		3.28	8.81	1.34		3.95		4.67	9.82	0.46	0.23	1.66	4.98	1.36	4.90	2.6	1.11	1.06	1.49	--	4.45	6.53	17.7	1.82	1.50	9.02
Laboratory Results - Natural Attenuation Parameters																														
Nitrogen, Ammonia	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.20	**15.7**	**1.54**	**25.6**	**5.97**	**27.8**	**25.8**	**8.15**	**2.62**	**28.4**	**37.9**	**36.0**
Nitrogen, Nitrate	mg/L	N/A	N/A	--	--	--	--	--	--	**31**	**30**	**21**	**22**	**4.8**	**6.9**	**6.4**	--	--	--	--	**13.6**	**10.3**	**6.93**	**33.6**	**35.2**	**45.2**	**58.8**	**38.9**	**45.9**	**17.7**	**0.0654**	**0.515**
Sulfate	mg/L	N/A	N/A	--	--	--	--	--	--	**370**	**370**	**310**	**310**	**310**	**330**	**350**	--	--	--	--	**124**	**4.83**	**95.8**	**248**	**240**	**153**	**116**	**71.9**	**100**	**201**	**263**	**281**
Sulfide	mg/L	N/A	N/A	--	--	--	--	--	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	--	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.00	< 1.00	< 1.00
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**1.58**	**2.86**	**0.592**	**3.95**	**2.54**	**3.54**	**4.23**	**2.93**	**1.53**	**5.52**	**6.86**	**7.35**
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**1.40**	**2.89**	**0.692**	**3.99**	**2.66**	**3.54**	**4.32**	**3.01**	**1.55**	**5.42**	**6.05**	**7.30**
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	--	--	0.13 HF	0.28 HF	< 0.10 HF	0.11 HF	< 0.010 HF	< 0.010	< 0.010	--	--	--	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.100	**12.7**	**22.0**	**21.7**
Total Iron	mg/L	N/A	N/A	--	--	--	--	--	--	**0.18**	**0.18**	**0.16**	**0.18**	**0.12**	**0.50**	< 0.010	--	--	--	--	**0.213**	**0.230**	**0.159**	**0.166**	**0.293**	**0.104**	**0.338**	**0.781**	**1.89**	**9.12**	**21.4**	**19.9**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	--	--	**110**	**99**	**2.7**	**2.8**	**1.7**	**1.4**	**1.2**	--	--	--	--	**140**	**140**	**120**	**180**	**160**	**170**	**170**	**210**	**120**	**190**	**250**	**200**
Methane	mg/L	N/A	N/A	--	--	--	--	--	--	**2.4**	**2.2**	**1.8**	**2.1**	<0.58	0.58	<0.19	--	--	--	--	**0.77**	**1.1**	**3.2**	**1.4**	**0.62**	**1.5**	**2.2**	**2.4**	**1.4**	**35**	**93**	**330**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**5.1**	**5.3**	**3.8**	**4.1**	**4.3**	--	--	--	--	**26**	**21**	**17**	**17**	**18**	**15**	**14**	**14**	**16**	**16**	**16**	**12**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	--	--	**6.6**	**7.2**	**1.6**	**1.7**	**1.3**	**1.3**	**1.6**	--	--	--	--	**6.8**	**2.6**	**4.4**	**0.97**	**1.6**	**1.1**	**1.8**	**1.3**	**3.6**	**7.5**	**5.5**	**1.8**
Laboratory Results - Organic Constituents																														
Volatile Organic Compounds																														
Benzene	µg/L	5.0*	9.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1700.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																														
Acenaphthene	µg/L	2,000*	6,100	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.21	< 0.21	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthylene	µg/L	470	3,100	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 10	< 0.21	< 0.21	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Anthracene	µg/L	4,700	31, 000	**0.074**	**0.14**	< 0.050	< 0.050	**0.11**	< 10	< 0.21	< 0.21	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	**0.13**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.21	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	**0.14**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.21	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	**0.12**	< 0.10	< 0.10	< 0.10	< 0.10	< 0.21	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	**0.16**	< 0.10	< 0.10	< 0.10	< 10	< 0.21	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	**0.14**	< 0.050	< 0.050	< 0.050	< 10	< 0.21	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	<0.050	**0.15**	< 0.050	< 0.050	< 0.050	< 10	< 0.21	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.21	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	<10	**0.13**	< 10	< 10	< 10	< 10	< 2.1	< 2.1	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 10	< 0.21	< 0.21	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 10	< 0.21	< 0.21	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	**0.15**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.21	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	<10	<10	< 10	< 10	< 10	< 10	< 2.1	< 2.1	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	<10	< 10	< 10	< 10	< 10	< 2.1	< 2.1	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.21	< 0.21	< 5.0	< 5.0	< 5.0	<9.8	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenanthrene	µg/L	470	3,100	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 10	< 0.21	< 0.21	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenol	µg/L	9,390	61,000	<10	<10	< 10	< 10	< 10	< 10	< 1.1	< 1.1	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	<0.050	**0.055**	< 0.050	< 0.050	< 0.050	< 10	< 0.21	< 0.21	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Laboratory Results - Inorganic Constituents																														
Antimony	µg/L	6.3	40	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Arsenic	µg/L	50*	50*	--	< 50	< 50	< 50	< 50	< 50	< 20	< 20	--	--	--	--	--	--	--	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	--	**31.7**	**31.5**	**32.6**	**33.6**	**50**	**16**	**16**	**19**	**18**	**41**	**49**	**35**	**21.8**	**33.7**	**28.5**	**38.7**	**84.7**	**38.3**	**87.3**	**35.4**	**80.8**	**48.7**	**74.6**	**105**	**119**	**34**	**34**	**35**
Beryllium	µg/L	31	200	--	< 10	< 10	< 10	< 10	< 10	< 4.0	< 4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	--	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	< 20	< 20	< 20	< 20	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Zinc	µg/L	4,700	31,000	--	**23.9**	**50.0**	**50.6**	< 20.0	**297**	**320**	**330**	--	--	--	--	--	--	--	--	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Mercury	µg/L	2*	2*	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Cyanide	µg/L	310	2,000	--	**14.1**	**14**	**12**	**11.3**	**108**	**120**	**120**	**130**	**130**	**65**	**110**	**150**	**167**	**315**	**121**	**282**	**199**	**355**	**216**	**236**	**403**	**173**	**189**	**51**	**248**	**181**	**276**	**227**

Notes:
Analyte was detected above laboratory detection limit
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-21					MW-23		
				02/27/17	08/25/16	04/06/16	04/30/15	07/12/06	02/13/12	02/24/11	03/05/04
Field Groundwater Quality Parameters											
pH	SU	N/A	N/A	5.37	5.96	5.92	5.99	--	6.07	6.16	6.20
Specific Conductance	µS/cm	N/A	N/A	263.6	160.22	95	58	--	287	272	347
Temperature	°Celsius	N/A	N/A	17.37	23.20	17.35	16.44	--	19.25	16.63	20.76
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	1.78	3.06	0.19	0.98	--	6.32	1.42	1.86
ORP	mV	N/A	N/A	80.4	12	5.7	-44.1	--	0.5	9.1	42.5
Turbidity	NTU	N/A	N/A	2.65	16.6	6.8	14.1	--	3.89	0.56	10.65
Laboratory Results - Natural Attenuation Parameters											
Nitrogen, Ammonia	mg/L	N/A	N/A	--	--	--	--	--	--	--	--
Nitrogen, Nitrate	mg/L	N/A	N/A	--	--	--	--	--	**0.85**	**0.75**	--
Sulfate	mg/L	N/A	N/A	--	--	--	--	--	**36**	**35**	--
Sulfide	mg/L	N/A	N/A	--	--	--	--	--	< 1.0	< 1.0	--
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	< 0.005
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	--	< 0.10 HF	< 0.010 HF	--
Total Iron	mg/L	N/A	N/A	--	--	--	--	--	< 0.10	< 0.010	**0.171**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	--	**1.6**	**1.0**	--
Methane	mg/L	N/A	N/A	--	--	--	--	--	< 0.58	<0.58	--
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	**5.0**	**4.4**	--
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	--	**1.6**	**1.5**	--
Laboratory Results - Organic Constituents											
Volatile Organic Compounds											
Benzene	µg/L	5.0*	9.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	<5.0	<5.0	< 5.0	< 5.0	< 5.0	--	--	--
Ethylbenzene	µg/L	700*	2,300	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Naphthalene	µg/L	31,000	200,000	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds											
Acenaphthene	µg/L	2,000*	6,100	<0.50	<0.50	< 0.50	< 10	< 10	--	--	< 10
Acenaphthylene	µg/L	470	3,100	<1.0	<1.0	< 1.0	< 10	< 10	--	--	< 10
Anthracene	µg/L	4,700	31, 000	<0.050	<0.050	< 0.050	< 10	< 10	--	--	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	<0.050	< 0.050	< 0.050	< 0.050	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	<0.050	< 0.050	< 0.050	< 0.050	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	< 0.10	< 0.10	< 0.10	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	< 0.10	< 10	< 10	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	< 0.050	< 10	< 10	--	--	--
Chrysene	µg/L	117	392	<0.050	<0.050	< 0.050	< 10	< 0.050	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	< 0.10	< 0.10	< 0.10	--	--	--
2,4-Dimehylphenol	µg/L	700*	700*	<10	<10	< 10	< 10	--	--	--	< 10
Fluoranthene	µg/L	1,000*	4,100	<0.10	<0.10	< 0.10	< 10	< 10	--	--	< 10
Fluorene	µg/L	1,000*	4,100	<0.10	<0.10	< 0.10	< 10	< 10	--	--	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	<0.050	< 0.050	< 0.050	< 0.050	--	--	--
2-Methylphenol	µg/L	780	5,100	<10	<10	< 10	< 10	--	--	--	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	<10	< 10	< 10	--	--	--	< 10
Naphthalene	µg/L	20*	20*	<0.50	<0.50	< 0.50	< 10	< 10	< 5.0	< 5.0	< 10
Phenanthrene	µg/L	470	3,100	<0.050	<0.050	< 0.050	< 10	< 10	--	--	< 10
Phenol	µg/L	9,390	61,000	<10	<10	< 10	< 10	--	--	--	< 10
Pyrene	µg/L	1,000*	3,100	<0.050	<0.050	< 0.050	< 10	< 10	--	--	< 10
Laboratory Results - Inorganic Constituents											
Antimony	µg/L	6.3	40	--	<0.0200	< 20	< 20	< 20	--	--	< 40
Arsenic	µg/L	50*	50*	--	<0.0500	< 50	< 50	< 50	--	--	< 50
Barium	µg/L	2,000	7,200	--	**0.158**	**96.8**	**75.6**	73	74	67	71.8
Beryllium	µg/L	31	200	--	<0.0100	< 10	< 10	< 10	--	--	--
Cadmium	µg/L	7.8	51	--	**0.0055**	< 5.0	< 5.0	< 5.0	--	--	--
Chromium	µg/L	100	310	--	<0.0100	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	--	**0.0143**	< 10	< 10	< 10	< 20	< 20	< 10
Lead	µg/L	15*	15*	--	<0.0100	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	<0.0200	< 20	< 20	< 20	< 40	< 40	< 20
Zinc	µg/L	4,700	31,000	--	**0.134**	**165**	< 20	< 20	--	--	< 20
Mercury	µg/L	2*	2*	--	<0.00020	< 0.20	< 0.20	< 0.20	--	--	< 0.5
Total Cyanide	µg/L	310	2,000	--	<0.010	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-25 (abandoned)						
				04/28/15	02/04/13	02/07/12	02/16/11	02/23/10	08/13/09	06/12/03
Field Groundwater Quality Parameters										
pH	SU	N/A	N/A	5.16	4.48	5.35	5.45	5.44	5.08	5.33
Specific Conductance	µS/cm	N/A	N/A	409	342	391	331	398	346	334
Temperature	°Celsius	N/A	N/A	20.52	21.08	18.99	19.16	15.26	23.74	21.73
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	0.66	0.44	1.01	0.88	3.33	6.63	0.25
ORP	mV	N/A	N/A	-31.1	523.5	79.2	447.3	175.9	-76.5	213.5
Turbidity	NTU	N/A	N/A	1.3	6.39	1.85	0.80	8.42	2.82	7.09
Laboratory Results - Natural Attenuation Parameters										
Nitrogen, Ammonia	mg/L	N/A	N/A	--	--	--	--	--	--	< 0.200
Nitrogen, Nitrate	mg/L	N/A	N/A	--	**6.3**	< 5.0	**4.0**	**3.3**	**2.1**	**2.38**
Sulfate	mg/L	N/A	N/A	--	**89**	< 5.0	**96**	**110**	**95**	**85.1**
Sulfide	mg/L	N/A	N/A	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	**0.0591**
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	**0.059**
Ferrous Iron	mg/L	N/A	N/A	--	**0.11** HF	**37** HF	< 0.010 HF	< 0.010	< 0.1	< 0.1
Total Iron	mg/L	N/A	N/A	--	**0.15**	**45**	< 0.010	**0.24**	< 0.1	< 0.1
Carbon Dioxide	mg/L	N/A	N/A	--	**170**	**4.2**	**0.96**	**2.1**	**0.74**	**230**
Methane	mg/L	N/A	N/A	--	< 0.58	< 0.58	< 0.58	< 0.19	**0.21**	**0.60**
Dissolved Nitrogen	mg/L	N/A	N/A	--	**16**	**4.1**	**4.7**	**3.7**	**4.2**	**14**
Dissolved Oxygen	mg/L	N/A	N/A	--	**5.2**	**0.96**	**1.6**	**1.3**	**1.5**	**1.3**
Laboratory Results - Organic Constituents										
Volatile Organic Compounds										
Benzene	µg/L	5*	9	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	< 5.0	< 2.0	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	< 5.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds										
Acenaphthene	µg/L	2,000*	6,100	< 10	< 0.20	--	--	--	--	< 10
Acenaphthylene	µg/L	470	3,100	< 10	< 0.20	--	--	--	--	< 10
Anthracene	µg/L	4,700	31,000	< 10	< 0.20	--	--	--	--	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	< 0.050	< 0.20	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	< 0.050	< 0.20	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	< 0.10	< 0.20	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	< 10	< 0.20	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 10	< 0.20	--	--	--	--	--
Chrysene	µg/L	117	392	< 10	< 0.20	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 0.10	< 0.20	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	< 10	< 2.0	--	--	--	--	< 10
Fluoranthene	µg/L	1,000*	4,100	< 10	< 0.20	--	--	--	--	< 10
Fluorene	µg/L	1,000*	4,100	< 10	< 0.20	--	--	--	--	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 0.050	< 0.20	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	< 10	< 2.0	--	--	--	--	< 10
3 & 4 Methylphenol	µg/L	78	510	< 10	< 2.0	--	--	--	--	< 10
Naphthalene	µg/L	20*	20*	< 10	< 0.20	< 5.0	< 5.0	<9.5	< 10	< 10
Phenanthrene	µg/L	470	3,100	< 10	0.43	--	--	--	--	< 10
Phenol	µg/L	9,390	61,000	< 10	< 0.99	--	--	--	--	< 10
Pyrene	µg/L	1,000*	3,100	< 10	< 0.20	--	--	--	--	< 10
Inorganic Constituents										
Antimony	µg/L	6.3	40	< 20	< 20	--	--	--	--	< 40
Arsenic	µg/L	50*	50*	< 50	< 20	--	--	--	--	< 50
Barium	µg/L	2,000	7,200	**33.6**	**32**	**820**	**33**	**40**	**32**	**33**
Beryllium	µg/L	31	200	< 10	< 4.0	--	--	--	--	--
Cadmium	µg/L	7.8	51	< 5.0	< 5.0	--	--	--	--	--
Chromium	µg/L	100	310	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	< 10	< 20	< 20	< 20	< 20	< 20	< 10
Lead	µg/L	15*	15*	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	< 20	< 40	< 40	< 40	< 40	< 40	< 20
Zinc	µg/L	4,700	31,000	**47**	**59**	--	--	--	--	**28**
Mercury	µg/L	2*	2*	< 0.20	< 0.20	--	--	--	--	< 0.5
Total Cyanide	µg/L	310	2,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-26		MW-28				
				08/23/16	02/05/13	8/24/2016	04/05/16	02/07/13	03/05/04	03/04 DUP
Field Groundwater Quality Parameters										
pH	SU	N/A	N/A	6.01	6.41	6.07	6.30	6.28	6.73	6.73
Specific Conductance	µS/cm	N/A	N/A	283.7	642	257.5	148	240	412	412
Temperature	°Celsius	N/A	N/A	22.81	14.36	33.48	21.42	16.97	17.56	17.56
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	0.18	0.65	0.14	2.16	1.96	0.42	0.42
ORP	mV	N/A	N/A	21.0	-28.2	-61.6	42.1	14.0	-125.5	-125.5
Turbidity	NTU	N/A	N/A	5.25	2.02	1.31	48.4	8.27	20.2	20.2
Laboratory Results - Natural Attenuation Parameters										
Nitrogen, Ammonia	mg/L	N/A	N/A	--	--	--	--	--	--	--
Nitrogen, Nitrate	mg/L	N/A	N/A	--	< 0.050	--	--	**0.12**	--	--
Sulfate	mg/L	N/A	N/A	--	**200**	--	--	**15**	--	--
Sulfide	mg/L	N/A	N/A	--	**4.5**	--	--	< 1.0	--	--
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	**6.11**	**6.14**
Ferrous Iron	mg/L	N/A	N/A	--	**34** HF	--	--	**9.2** HF	--	--
Total Iron	mg/L	N/A	N/A	--	**50**	--	--	**10**	**34.3**	**35.6**
Carbon Dioxide	mg/L	N/A	N/A	--	**170**	--	--	**72.0**	--	--
Methane	mg/L	N/A	N/A	--	**32**	--	--	**82**	--	--
Dissolved Nitrogen	mg/L	N/A	N/A	--	**18**	--	--	--	--	--
Dissolved Oxygen	mg/L	N/A	N/A	--	**2.0**	--	--	**6.6**	--	--
Laboratory Results - Organic Constituents										
Volatile Organic Compounds										
Benzene	µg/L	5.0*	9	<5.0	< 1.0	<5.0	< 5.0	< 1.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	<5.0	< 2.0	<5.0	< 5.0	< 2.0	--	--
Ethylbenzene	µg/L	700*	2,300	<5.0	< 1.0	<5.0	< 5.0	< 1.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	< 1.0	<5.0	< 5.0	< 1.0	< 5.0	< 5.0
Naphthalene	µg/L	31,000	200,000	<5.0	< 2.0	<5.0	< 5.0	< 2.0	< 5.0	< 5.0
Semivolatile Organic Compounds										
Acenaphthene	µg/L	2,000*	6,100	<0.50	< 2.0	<0.50	< 0.50	< 0.19	< 10	< 10
Acenaphthylene	µg/L	470	3,100	<1.0	< 2.0	<1.0	< 1.0	< 0.19	< 10	< 10
Anthracene	µg/L	4,700	31, 000	<0.050	< 2.0	<0.050	< 0.050	< 0.19	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	< 2.0	<0.050	< 0.050	< 0.19	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	< 2.0	<0.050	< 0.050	< 0.19	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	< 2.0	<0.10	< 0.10	< 0.19	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	< 2.0	<0.10	< 0.10	< 0.19	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	< 2.0	<0.050	< 0.050	< 0.19	--	--
Chrysene	µg/L	117	392	<0.050	< 2.0	<0.050	< 0.050	< 0.19	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	< 2.0	<0.10	< 0.10	< 0.19	--	--
2,4-Dimethylphenol	µg/L	700*	700*	<10	< 20	<10	< 10	< 1.9	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	<0.10	< 2.0	<0.10	< 0.10	< 0.19	< 10	< 10
Fluorene	µg/L	1,000*	4,100	<0.10	< 2.0	<0.10	< 0.10	< 0.19	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	< 2.0	<0.050	< 0.050	< 0.19	--	--
2-Methylphenol	µg/L	780	5,100	<10	< 20	<10	< 10	< 1.9	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	< 20	<10	< 10	< 1.9	< 10	< 10
Naphthalene	µg/L	20*	20*	<0.50	< 2.0	<0.50	< 0.50	< 0.19	< 10	< 10
Phenanthrene	µg/L	470	3,100	<0.050	< 2.0	0.053	< 0.050	< 0.19	< 10	< 10
Phenol	µg/L	9,390	61,000	<10	< 9.9	<10	< 10	< 0.97	< 10	< 10
Pyrene	µg/L	1,000*	3,100	<0.050	< 2.0	<0.050	< 0.050	< 0.19	< 10	< 10
Laboratory Results - Inorganic Constituents										
Antimony	µg/L	6.3	40	< 20	< 20	< 20	< 20	< 20	< 40	< 40
Arsenic	µg/L	50*	50*	< 50	< 20	< 50	< 20	< 20	< 50	< 50
Barium	µg/L	2,000	7,200	**48.7**	**120**	**8.07**	**64.9**	**82**	**115**	**115**
Beryllium	µg/L	31	200	< 10.0	< 4.0	<10	< 10.0	< 4.0	--	--
Cadmium	µg/L	7.8	51	<5.0	< 5.0	< 5.0	**40.3**	< 5.0	--	--
Chromium	µg/L	100	310	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	< 10	< 20	< 20	< 10	< 20	< 10	< 10
Lead	µg/L	15*	15*	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	< 20	< 40	< 40	< 20	< 40	< 20	< 20
Zinc	µg/L	4,700	31,000	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Mercury	µg/L	2*	2*	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.5	< 0.5
Total Cyanide	µg/L	310	2,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-101																													
				08/16/17	8/17 DUP	02/23/17	08/25/16	04/07/16	4/16 DUP	08/13/15	02/18/15	08/07/13	08/13 DUP	02/07/13	02/13 DUP	11/07/12	11/12 DUP	08/09/12	05/16/12	05/12 DUP	02/09/12	02/12 DUP	11/16/11	11/11 DUP	08/10/11	08/11 DUP	05/04/11	02/24/11	11/10/10	11/10 DUP	08/10/10	05/11/10	05/11 DUP	02/25/10
Field Groundwater Quality Parameters																																	
pH	SU	N/A	N/A	5.98		6.05	5.94	6.10		5.87	5.38	5.56		5.08		6.23		6.11	6.17		5.6		5.84		6.54		4.84	6.15	6.29		6.01	6.12		5.92
Specific Conductance	µS/cm	N/A	N/A	383.00		366.20	370.8	400		534	490	498		814		1049		1125	976		828		997		1,185		404	696	954		958	948		720
Temperature	°Celsius	N/A	N/A	30.04		20.08	26.25	21.77		27.35	13.50	23.36		14.94		21.1		25.58	23.62		17.07		26.14		23.85		20.26	17.84	23.54		28.39	18.57		12.69
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	0.17		0.08	0.38	0.16		0.19	1.57	0.41		0.78		0.59		0.66	0.81		2.89		0.61		1.19		0.89	1.29	0.21		0.30	0.68		0.95
ORP	mV	N/A	N/A	121.9		98.3	21.4	17.3		-23.1	125.0	-123.0		200.8		3.6		-6.1	28.2		4.3		29.4		-73.3		173.2	-19.8	-79.4		-3.3	-21.0		47.7
Turbidity	NTU	N/A	N/A	9.31		3.65	6.43	23		4.65	9.50	7.07		1.05		18.9		3.80	3.16		8.35		155		4.02		2.44	9.98	3.3		3.14	5.17		91.30
Laboratory Results - Natural Attenuation Parameters																																	
Nitrogen, Ammonia	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, Nitrate	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	**69**	**69**	--	--	--	--	--	**69**	**72**	--	--	--	--	--	**3.4**	--	--	--	--	**6.6**
Sulfate	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	**120**	**120**	--	--	--	--	--	**170**	**160**	--	--	--	--	--	**280**	--	--	--	--	**210**
Sulfide	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0	--	--	--	--	--	< 1.0	< 1.0	--	--	--	--	--	**5.9**	--	--	--	--	< 1.0
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	**5.5** HF	**5.6** HF	--	--	--	--	--	**2.8** HF	**2.4** HF	--	--	--	--	--	**10** HF	--	--	--	--	**5.6**
Total Iron	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	**5.6**	**5.5**	--	--	--	--	--	**3.2**	**3.1**	--	--	--	--	--	**12**	--	--	--	--	**14**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	**76**	**69**	--	--	--	--	--	**1.3**	**1.3**	--	--	--	--	--	**0.62**	--	--	--	--	**1.3**
Methane	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	**3.5**	**3.4**	--	--	--	--	--	**10**	**11**	--	--	--	--	--	**61**	--	--	--	--	**1400**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**5.8**	**4.9**	--	--	--	--	--	**4.7**	--	--	--	--	**3.7**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	**7.2**	**12**	--	--	--	--	--	**2.3**	**1.5**	--	--	--	--	--	**1.5**	--	--	--	--	**1.2**
Laboratory Results - Organic Constituents																																	
Volatile Organic Compounds																																	
Benzene	µg/L	5*	9	<5.0	<5.0	<5.0	<5.0	**6.5**	**6.3**	< 5.0	**49**	< 5.0	< 5.0	**25**	**20**	**27**	**26**	**51**	**43**	**44**	**25**	**26**	**24**	**20**	**65**	**74**	**19**	**120**	**150**	**150**	**130**	**140**	**130**	< 5.0
Carbon Disulfide	µg/L	329	1,700	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**9.6**	**5.9**	**5.0**	**5.6**	**12**	**8.7**	**8.3**	**11**	**9.9**	**7.9**	**6.9**	<25	<25	**6.7**	**61**	--	--	--	--	--	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	**6.9**	< 5.0	< 5.0	**14**	**9.3**	< 1.0	< 1.0	< 1.0	**15**	**15**	**6.4**	**6.1**	< 5.0	< 5.0	<25	<25	**7.8**	**64**	--	--	--	--	--	< 5.0
Total Xylenes	µg/L	31,000	200,000	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	**18**	< 5.0	< 5.0	**18**	**12**	< 2.0	< 2.0	**9.9**	**32**	**31**	**9.6**	**8.3**	< 5.0	< 5.0	<25	<25	**12**	**88**	--	--	--	--	--	< 5.0
Semivolatile Organic Compounds																																	
Acenaphthene	µg/L	2,000*	6,100	**1.5**	**1.5**	**1.4**	**4.1**	**3.7**	**3.9**	**11**	< 10	< 10	< 10	**11**	**7.0**	**17**	**16**	**19**	**18**	**26**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	µg/L	470	3,100	<1.0	<1.0	<1.0	**1.4**	**1.3**	**1.3**	**5.2**	< 10	< 10	< 10	**3.8**	**2.2**	**4.7**	**4.4**	**6.8**	**7.1**	**9.4**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	µg/L	4,700	31,000	**0.12**	**0.16**	**0.22**	**0.43**	**0.25**	**0.25**	**0.78**	< 10	< 10	< 10	**0.77**	**0.40**	**0.81**	**0.97**	< 0.20	**0.65**	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	<0.050	<0.050	<0.050	0.070	< 0.050	< 0.050	< 0.050	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	<0.10	<0.10	0.11	< 0.10	< 0.10	< 10	< 10	< 10	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	<0.050	<0.050	0.085	< 0.050	< 0.050	< 10	< 10	< 10	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	<0.050	<0.050	<0.050	<0.050	0.054	< 0.050	< 0.050	< 10	< 10	< 10	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	<0.10	<0.10	0.16	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	<10	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 21	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	µg/L	1,000*	4,100	**0.22**	**0.25**	**0.12**	**0.73**	**0.31**	**0.3**	**1.2**	< 10	< 10	< 10	**0.59**	**0.34**	**1.3**	**1.4**	**1.5**	0.55	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene	µg/L	1,000*	4,100	**0.43**	**0.46**	**1.7**	**2.1**	**2.7**	**2.8**	**9.5**	< 10	< 10	< 10	**13**	**8.1**	**12**	**13**	**22**	15	22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	<0.050	<0.050	<0.050	**0.11**	< 0.050	< 0.050	< 0.050	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	<10	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 21	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3 & 4 Methylphenol	µg/L	78	510	<10	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 21	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	20*	20*	**0.80**	<0.50	**43**	<0.50	**12**	**14**	< 0.50	**310**	< 10	< 10	**290**	**180**	**4.1**	**3.2**	**170** D	**490**	**410**	**120**	**100**	**14**	**16**	**1100**	**1300**	**160**	**1700**	**1100**	**840**	**1900**	**770**	**990**	<9.4
Phenanthrene	µg/L	470	3,100	**0.098**	**0.087**	**1.0**	**0.062**	**0.35**	**0.35**	**0.28**	< 10	< 10	< 10	**5.4**	**3.1**	**8.7**	**9.5**	**16**	**4.8**	**7.4**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenol	µg/L	9,390	61,000	<10	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	**1.4**	< 0.99	< 0.99	< 0.99	< 0.98	**0.99**	< 11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	**0.18**	**0.19**	**0.084**	**0.51**	**0.21**	**0.22**	**0.92**	< 10	< 10	< 10	**0.44**	**0.35**	**1.1**	**1.1**	**1.1**	**0.38**	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Inorganic Constituents																																	
Antimony	µg/L	6.3	40	--	--	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	50*	50*	--	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	2,000	7,200	--	--	--	**39.4**	**86.1**	**88.6**	**45.3**	**76.7**	**126**	**132**	**150**	**150**	**20**	**18**	**20**	**82**	**79**	**270**	**290**	**33**	**38**	**22**	**22**	**47**	**35**	--	--	--	--	--	**74**
Beryllium	µg/L	31	200	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	--	--	< 10
Copper	µg/L	630	4,100	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	< 20
Lead	µg/L	15*	15*	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	--	--	< 10
Nickel	µg/L	100	2,000	--	--	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	--	--	--	--	--	< 40
Zinc	µg/L	4,700	31,000	--	--	--	< 20	< 20	< 20	< 20	**26.3**	**78.5**	**50.6**	**190**	**180**	< 20	< 20	< 20	**53**	**53**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	2*	2*	--	--	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Cyanide	µg/L	310	2,000	--	--	--	**66**	**13**	< 10	**39**	**30**	**40**	**21**	**110**	**110**	**230**	**190**	**160**	**55**	**100**	**83**	**60**	--	--	--	--	--	**140**	--	--	--	--	--	**71**

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-101 (Continued)																							
				08/13/09	06/08/06	03/10/06	12/22/05	09/30/05	03/14/05	03/05 DUP	12/15/04	12/04 DUP	10/01/04	10/04 DUP	06/10/04	03/04/04	03/04 DUP	12/16/03	12/03 DUP	09/09/03	09/03 DUP	06/10/03	06/03 DUP	03/12/03	12/11/02	09/19/02	09/02 DUP
Field Groundwater Quality Parameters																											
pH	SU	N/A	N/A	6.4	6.45	6.45	6.48	6.65	6.42	6.42	6.38	6.38	6.37	6.37	6.81	6.81	6.81	6.46	6.46	6.61	6.61	6.68	6.68	6.57	6.35	6.36	6.36
Specific Conductance	µS/cm	N/A	N/A	1191	634	772	732	756	664	664	793	793	820	820	841	740	740	1,114	1,114	610	610	591	591	743	726	757	757
Temperature	°Celsius	N/A	N/A	31.69	21.71	18.15	20.96	26.36	18.04	18.04	22.48	22.48	25.85	25.85	21.74	18.65	18.65	22.16	22.16	25.38	25.38	21.86	21.86	20.03	22.88	27.31	27.31
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	5.37	0.13	0.30	0.37	0.06	2.61	2.61	1.58	1.58	0.34	0.34	0.74	0.38	0.38	0.22	0.82	0.15	0.15	0.02	0.02	0.10	0.06	0.02	0.02
ORP	mV	N/A	N/A	-85.3	-75.9	-75.0	-99.9	-99.1	-70.9	-70.9	-103.1	-103.1	-101.4	-101.4	-85.2	-147.3	-147.3	-161.2	-161.2	-125.8	-125.8	-128	-128	-96.1	-87.3	-88.6	-88.6
Turbidity	NTU	N/A	N/A	3.79	1.79	4.36	3.60	4.34	2.90	2.90	5.1	5.1	0.68	0.68	1.80	4.64	4.64	--	--	3.59	3.59	13.9	13.9	7.95	31.7	10.5	10.5
Laboratory Results - Natural Attenuation Parameters																											
Nitrogen, Ammonia	mg/L	N/A	N/A	--	--	--	--	--	**24.5**	**23.6**	**23.1**	**20.2**	**21.4**	**23.2**	**22.4**	**19.2**	**22.2**	**19.9**	**22.8**	**21.4**	**21.4**	**22.8**	**22.4**	**27.9**	**29.8**	**35.8**	**33.7**
Nitrogen, Nitrate	mg/L	N/A	N/A	**6.5**	--	--	--	--	**0.514**	**0.478**	**0.337**	**0.341**	**1.31**	**1.01**	< 0.5	< 0.500	< 0.0500	**0.0384**	**0.0686**	**0.306**	**0.330**	< 0.500	< 0.500	0.224	0.113	< 0.0500	< 0.0500
Sulfate	mg/L	N/A	N/A	**340**	--	--	--	--	**75.1**	**73.9**	**121**	**124**	**130**	**131**	**212**	**111**	**118**	**79.0**	**75.5**	**50.2**	**36.8**	**25.1**	**24.1**	**35.1**	**40.3**	**48.8**	**48.2**
Sulfide	mg/L	N/A	N/A	< 1.0	--	--	--	--	< 1.0	< 1.0	**1.0**	**1.0**	**2.9**	**4.5**	**5.8**	**2.8**	**2.4**	**2.8**	**3.0**	< 1.0	**2.3**	< 1.0	< 1.0	< 1.0	< 1.00	< 1.00	< 1.00
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	**1.68**	**1.68**	**1.44**	**1.45**	**1.46**	**1.49**	**1.64**	**1.63**	**1.62**	**1.47**	**1.48**	**1.38**	**1.33**	**1.53**	**1.56**	**2.35**	**1.89**	**2.12**	**2.15**
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	**1.72**	**1.65**	**1.47**	**1.51**	**1.45**	**1.42**	**1.72**	**1.7**	**1.79**	**1.53**	**1.55**	**1.42**	**1.44**	**1.67**	**1.69**	**2.34**	**2.07**	**1.94**	**1.99**
Ferrous Iron	mg/L	N/A	N/A	**14**	--	--	--	--	**37.5**	**37.4**	**31.9**	**32.8**	**21.5**	**22.3**	**11.7**	**59.4**	**31.3**	**20.2**	**19.5**	**29.1**	**29.8**	**16.0**	**15.0**	**34.9**	**34.0**	**28.6**	**27.7**
Total Iron	mg/L	N/A	N/A	**28**	--	--	--	--	**36.5**	**35.4**	**29.6**	**29.8**	**30.0**	**29.5**	**42.7**	**36.2**	**37.6**	**34.0**	**34.8**	**30.9**	**31.2**	**34.0**	**34.4**	**36.7**	**35.5**	**31.4**	**33**
Carbon Dioxide	mg/L	N/A	N/A	**0.41**	--	--	--	--	**160**	**170**	**150**	**140**	**120**	**110**	**75**	**99**	**98**	**100**	**100**	**110**	**110**	**120**	**120**	**180**	**220**	**200**	**220**
Methane	mg/L	N/A	N/A	**0.49**	--	--	--	--	**170**	**150**	**210**	**300**	**190**	**200**	**250**	**300**	**280**	**340**	**390**	**230**	**54**	**390**	**400**	**390**	**280**	**250**	**300**
Dissolved Nitrogen	mg/L	N/A	N/A	**4.8**	--	--	--	--	**25**	**25**	**18**	**19**	**16**	**15**	**17**	**23**	**21**	**14**	**16**	**15**	**13**	**15**	**14**	**20**	**14**	**12**	**14**
Dissolved Oxygen	mg/L	N/A	N/A	**1.7**	--	--	--	--	**2.5**	**2.9**	**1.8**	**0.68**	**0.60**	**0.53**	**0.55**	**0.89**	**0.87**	**0.67**	**0.22**	**1.5**	**1.8**	**0.59**	**0.54**	**0.58**	**5.0**	**2.6**	**3.1**
Laboratory Results - Organic Constituents																											
Volatile Organic Compounds																											
Benzene	µg/L	5.0*	9	**27**	< 5.0	< 5.0	< 5.0	7.0	< 5.0	< 5.0	**41**	**40**	**440**	**440**	**1,200**	**160**	**150**	**100**	**97**	**350**	**330**	**51**	**51**	**48**	**77**	**100**	**100**
Ethylbenzene	µg/L	700*	2,300	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**5.1**	< 5.0	**71**	**74**	**250**	**25**	**24**	**11**	**11**	**30**	**27**	**15**	**15**	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**130**	**130**	**670**	**17**	**16**	< 5.0	**5.7**	**22**	**19**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Naphthalene	µg/L	31,000	200,000	**19**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**82**	**91**	**400**	**20**	**19**	**8.6**	**8.7**	**39**	**36**	**11**	**11**	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																											
2,4-Dimethylphenol	µg/L	700*	700*	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	**12**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Methylphenol	µg/L	780	5,100	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	**23**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	**39**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthene	µg/L	2,000*	6,100	--	--	--	--	--	**27**	**26**	**29**	**30**	**26**	**26**	**45**	**30**	**32**	**32**	**34**	**32**	**31**	**26**	**25**	**31**	**31**	**23**	**26**
Acenaphthylene	µg/L	470	3,100	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	**14**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Anthracene	µg/L	4,700	31, 000	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	--	--	--	--	--	**21**	**21**	**15**	**15**	< 10	< 10	< 10	< 10	< 10	**14**	**15**	**14**	< 10	**20**	**20**	**32**	**32**	**33**	**34**
Naphthalene	µg/L	20*	20*	**450**	< 10	< 10	< 10	< 10	< 10	< 10	**10**	**11**	**700**	**850**	**3,600**	**400**	**450**	**160**	**170**	**390**	**420**	**340**	**370**	< 10	**49**	**130**	**64**
Phenanthrene	µg/L	470	3,100	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenol	µg/L	9,390	61,000	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	**49**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Laboratory Results - Inorganic Constituents																											
Antimony	µg/L	6.3	40	--	--	--	--	--	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Arsenic	µg/L	50*	50*	--	--	--	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	**76**	**79.7**	**101**	**81.1**	**84.0**	**72.3**	**70.3**	**68.7**	**68.2**	**74.9**	**73.6**	**88**	**109**	**114**	**110**	**110**	**108**	**109**	**91.1**	**91.7**	**99**	**124**	**111**	**117**
Chromium	µg/L	100	310	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Mercury	µg/L	2*	2*	--	--	--	--	--	< 0.2	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	µg/L	100	2,000	< 40	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	20	< 20	< 20
Zinc	µg/L	4,700	31,000	--	--	--	--	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	20	< 20	< 20
Total Cyanide	µg/L	310	2,000	**130**	**67**	**77**	**15**	**58**	**81**	**86**	**112**	**114**	**55**	**50**	**107**	**64**	**71**	**98**	**97**	**50**	**52**	**19**	**24**	**43**	**55**	**97**	**84**

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-102																															
				02/27/17	08/25/16	04/06/16	08/11/15	02/18/15	08/06/13	02/05/13	11/06/12	08/07/12	05/15/12	02/13/12	11/15/11	08/10/11	05/04/11	02/24/11	11/10/10	08/10/10	05/11/10	02/25/10	08/12/09	06/06/06	03/08/06	12/20/05	09/28/05	03/16/05	12/14/04	09/30/04	06/08/04	03/03/04	12/16/03	09/10/03	06/10/03	03/12/03	12/11/02***	09/19/02
Field Groundwater Quality Parameters																																				
pH	SU	N/A	N/A	5.56	5.72	5.95	5.89	6.49	5.93	6.54	6.53	5.5	5.95	6.54	5.77	6.08	6.07	6.41	6.06	6.25	6.61	6.66	5.93	5.93	6.20	6.64	6.17	6.34	6.24	6.79	6.33	6.34	6.3	6.4	6.69	6.98	NM	6.34
Specific Conductance	µS/cm	N/A	N/A	760.7	876.0	300	888	451	706	824	575	645	739	711	594	472	414	322	253	300	320	246	749	302	341	312	277	308	358	361	463	450	705	561	525	616	NM	799
Temperature	°Celsius	N/A	N/A	17.27	25.40	16.08	27.50	13.84	24.87	20.69	20.89	26.12	23.47	16.77	23.72	27.53	20.58	16.6	22.19	25.33	19.87	12.47	30.10	22.76	17.74	19.58	26.38	15.74	20.28	26.12	22.74	16.35	20.69	25.3	22.39	17.59	NM	25.75
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	0.97	0.42	0.26	0.98	5.83	1.71	0.51	1.75	0.81	2.20	1.56	0.97	0.92	0.90	2.03	0.50	3.0	0.8	5.85	2.69	0.29	0.59	0.44	0.20	0.63	3.14	1.28	8.10[2]	0.55	0.23	0.40	0.06	0.12	NM	0.50
ORP	mV	N/A	N/A	109.0	94.1	59.0	-15.6	81.0	-114.2	151.3	76.5	160.4	88.4	58.1	191.3	79.1	123.5	142.8	69.7	55.8	22.4	88	-160.1	45.1	135.2	-30.9	-77.8	-59.1	16.9	-100.2	52.2	56.4	-62.9	-75.5	-206.5	-124.5	NM	2.4
Turbidity	NTU	N/A	N/A	0.71	1.60	9.22	9.62	9.52	2.24	0.42	6.17	16.4	4.62	2.04	41.1	11.6	4.76	5.05	0.12	2.42	7.12	5.21	3.45	0.21	0.02	1.58	2.71	2.50	2.2	0.2	109.2	1.96	--	1.87	5.15	4.65	NM	18.0
Laboratory Results - Natural Attenuation Parameters																																				
Nitrogen, Ammonia	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.59**	**0.32**	**1.07**	**1.84**	**1.95**	**1.72**	**4.71**	**3.80**	**5.21**	**8.85**	**14.5**
Nitrogen, Nitrate	mg/L	N/A	N/A	--	--	--	--	--	--	**0.13**	--	--	--	**0.26**	--	--	--	**0.064**	--	--	--	**7.4**	**0.81**	--	--	--	--	**0.134**	**0.459**	**0.517**	**0.43**	**5.51**	**0.412**	< 0.0500	< 0.500	< 0.0500	**2.47**	**0.114**
Sulfate	mg/L	N/A	N/A	--	--	--	--	--	--	**350**	--	--	--	**220**	--	--	--	**66**	--	--	--	**29**	**220**	--	--	--	--	**51.5**	**4.83**	**30.4**	**81.7**	**78.3**	**50.0**	**104**	**71.9**	**94.1**	**183**	**105**
Sulfide	mg/L	N/A	N/A	--	--	--	--	--	--	< 1.0	--	--	--	< 1.0	--	--	--	< 1.0	--	--	--	< 1.0	< 1.0	--	--	--	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.00	< 1.00
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**2.66**	**1.75**	**0.778**	**0.827**	**1.84**	**0.255**	**1.72**	**1.43**	**1.74**	**1.22**	**1.14**
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**2.59**	**1.82**	**0.826**	**0.651**	**2.03**	**0.223**	**1.74**	**1.41**	**1.92**	**1.24**	**0.968**
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	--	--	< 0.10 HF	--	--	--	< 0.10 HF	--	--	--	< 0.010 HF	--	--	--	**0.12**	< 0.010	--	--	--	--	**3.0**	**0.6**	**1.1**	**0.2**	**2.6**	**0.4**	**15.2**	**9.4**	**9.02**	**0.133**	**3.72**
Total Iron	mg/L	N/A	N/A	--	--	--	--	--	--	**0.11**	--	--	--	< 0.10	--	--	--	**0.13**	--	--	--	**0.6**	**0.57**	--	--	--	--	**2.60**	**0.915**	**1.24**	**10.2**	**3.79**	**0.515**	**15.8**	**8.97**	**7.93**	**4.94**	**6.83**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	--	--	**37**	--	--	--	**0.97**	--	--	--	**0.78**	--	--	--	**0.45**	**1.1**	--	--	--	--	**100**	**83**	**49**	**160**	**120**	**98**	**120**	**90**	**49**	**81**	**150**
Methane	mg/L	N/A	N/A	--	--	--	--	--	--	< 0.58	--	--	--	< 0.58	--	--	--	**3.5**	--	--	--	**15**	**0.23**	--	--	--	--	**180**	**74**	**23**	**7.1**	**0.87**	**2.5**	**7.8**	**150**	**110**	**14**	**27**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	--	**19**	--	--	--	**5.0**	--	--	--	**4.5**	--	--	--	**3.9**	**4.4**	--	--	--	--	**26**	**15**	**16**	**16**	**22**	**16**	**13**	**15**	**21**	**15**	**16**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	--	--	**7.8**	--	--	--	**1.6**	--	--	--	**1.5**	--	--	--	**1.4**	**1.5**	--	--	--	--	**6.5**	**1.4**	**1.9**	**0.92**	**1.1**	**1.6**	**0.47**	**0.48**	**0.69**	**7.5**	**6.7**
Laboratory Results - Organic Constituents																																				
Volatile Organic Compounds																																				
Benzene	µg/L	5*	9	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																																				
Acenaphthene	µg/L	2,000*	6,100	<0.50	<0.50	< 0.50	< 0.50	< 10	< 10	< 0.25	< 0.20	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthylene	µg/L	470	3,100	<1.0	<1.0	< 1.0	< 1.0	< 10	< 10	< 0.25	< 0.20	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Anthracene	µg/L	4,700	31,000	<0.050	<0.050	< 0.050	< 0.050	< 10	< 10	< 0.25	< 0.20	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	0.069	0.069	< 0.050	< 0.050	< 0.050	< 0.20	< 0.25	< 0.20	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.25	< 0.20	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.25	< 0.20	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	< 0.10	< 0.10	< 10	< 10	< 0.25	< 0.20	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	< 0.050	< 0.050	< 10	< 10	< 0.25	< 0.20	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	<0.050	<0.050	< 0.050	< 0.050	< 10	< 10	< 0.25	< 0.20	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.25	< 0.20	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylpheno	µg/L	700*	700*	<10	<10	< 10	< 10	< 10	< 10	< 2.5	< 2.0	< 1.9	< 2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	<0.10	<0.10	< 0.10	< 0.10	< 10	< 10	< 0.25	< 0.20	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	<0.10	<0.10	< 0.10	< 0.10	< 10	< 10	< 0.25	< 0.20	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.25	< 0.20	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylpheno	µg/L	780	5,100	<10	<10	< 10	< 10	< 10	< 10	< 2.5	< 2.0	< 1.9	< 2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	<10	< 10	< 10	< 10	< 10	< 2.5	< 2.0	< 1.9	< 2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	<0.50	<0.50	< 0.50	< 0.50	< 10	< 10	< 0.25	**1.2**	< 0.19	< 0.22	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<9.8	<9.8	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**37**
Phenanthrene	µg/L	470	3,100	<0.050	<0.050	< 0.050	< 0.050	< 10	< 10	< 0.25	< 0.20	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenol	µg/L	9,390	61,000	<10	<10	< 10	< 10	< 10	< 10	< 1.2	< 0.99	< 0.95	< 1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	11	< 10	< 10
Pyrene	µg/L	1,000*	3,100	<0.050	<0.050	< 0.050	< 0.050	< 10	< 10	< 0.25	< 0.20	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Inorganic Constituents																																				
Antimony	µg/L	6.3	40	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Arsenic	µg/L	50*	50*	--	< 50	< 50	< 50	< 50	< 50	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	--	**129**	**58.4**	**210**	**68.7**	**180**	**51**	**110**	**110**	**110**	**97**	**120**	**290**	**180**	**88**	--	--	--	**82**	**220**	**154**	**158**	**116**	**125**	**147**	**129**	**106**	**146**	**149**	**104**	**163**	**137**	**104**	**180**	**183**
Beryllium	µg/L	31	200	--	< 10	< 10	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	--	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	< 20	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**20.1**	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	< 20	**0.0408**	< 20	< 20	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	--	--	--	< 40	< 40	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Zinc	µg/L	4,700	31,000	--	**304**	**532**	**242**	**124**	**184**	**470**	**28**	< 20	**30**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 20	< 20	< 20	**55**	< 20	< 20	< 20	< 20	< 20	**30**	< 20
Mercury	µg/L	2*	2*	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Cyanide	µg/L	310	2,000	--	**247**	< 10.0	< 10.0	**17**	**106**	**22**	**21**	**180**	**170**	**34**	--	--	--	**55**	--	--	--	**46**	**390**	**57**	**56**	**57**	**59**	**41**	**35**	**90**	**95**	**101**	**159**	**133**	**46**	**190**	**293**	**283**

Notes:
Analyte was detected above laboratory detection limi
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well locatio
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimete
µg/L - micrograms per lite
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-103																			
				2/24/2017	8/24/2016	2/6/2013	02/13/12	2/22/2011	02/25/10	08/12/09	06/06/06	03/16/06	09/29/05	03/14/05	12/15/04	10/01/04	06/10/04	03/04/04	12/16/03	09/10/03	06/11/03	03/11/03	12/11/02	09/19/02
Field Groundwater Quality Parameters																							
pH	SU	N/A	N/A	5.25	5.03	5.99	5.48	5.84	4.94	5.5	6.00	6.17	6.40	6.44	6.38	6.46	6.80	6.67	6.51	6.6	6.67	6.52	6.49	6.51
Specific Conductance	µS/cm	N/A	N/A	84.7	83.2	348	324	408	224	535	961	785	778	743	759	651	743	723	1,212	719	673	695	644	674
Temperature	°Celsius	N/A	N/A	22.02	25.60	20.99	15.87	20.04	15.37	25.13	22.13	20.43	24.57	20.65	22.97	25.55	21.85	20.12	22.45	24.37	21.98	20.53	23.54	26.43
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	5.69	1.12	0.58	0.71	0.81	1.81	5.15	0.27	0.30	0.46	4.10	1.66	0.24	0.60	0.49	0.24	0.31	0.46	0.05	0.05	0.06
ORP	mV	N/A	N/A	500.7	263.3	116.4	44.4	112.2	263.6	100.2	80.6	101.2	-28.2	25.7	-48.3	-8.5	-45.8	-72.4	-82.3	-28.8	-22.3	-97.1	-117.9	-83.7
Turbidity	NTU	N/A	N/A	3.75	2.11	1.49	9.00	5.73	0.57	3.59	0.58	4.15	1.71	2.23	3.0	1.7	2.52	9.81	--	4.71	8.34	6.8	4.58	2.8
Laboratory Results - Natural Attenuation Parameters																							
Nitrogen, Ammonia	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	**33.6**	**25.9**	**17.8**	**31.2**	**25.4**	**1.02**	**40.0**	**37.4**	**9.89**	**9.66**	**20.3**
Nitrogen, Nitrate	mg/L	N/A	N/A	--	--	**2.5**	**15**	**0.15**	**7.4**	**35**	--	--	--	**3.56**	**3.86**	**3.62**	**4.86**	**1.89**	**3.05**	**5.19**	**6.12**	< 0.0500	2.24	< 0.0500
Sulfate	mg/L	N/A	N/A	--	--	**88**	**40**	**110**	**34**	**70**	--	--	--	**172**	**145**	**70.4**	**82.8**	**67.8**	**90.8**	**51.8**	**29.0**	**86.2**	**66.2**	**28.9**
Sulfide	mg/L	N/A	N/A	--	--	< 1.0	< 1.0	1.2	< 1.0	< 1.0	--	--	--	< 1.0	< 1.0	1.0	< 1.0	1.4	3.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	**0.983**	**1.05**	**0.976**	**0.911**	**1.00**	**0.974**	**0.688**	**0.701**	**1.65**	**1.80**	**1.5**
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	**1.00**	**1.08**	**0.998**	**0.936**	**1.09**	**0.958**	**0.694**	**0.716**	**1.74**	**1.81**	**1.44**
Ferrous Iron	mg/L	N/A	N/A	--	--	< 0.10 HF	< 0.10 HF	0.22 HF	< 0.010	< 0.010	--	--	--	**3.9**	**5.9**	**1.5**	**4.5**	**8.2**	**3.1**	**1.5**	**1.1**	**29.4**	**31.1**	**15.6**
Total Iron	mg/L	N/A	N/A	--	--	**0.64**	**0.23**	**0.93**	**0.38**	< 0.010	--	--	--	**4.30**	**5.68**	**1.93**	**5.51**	**8.98**	**4.58**	**1.73**	**6.17**	**29.1**	**21.9**	**16.3**
Carbon Dioxide	mg/L	N/A	N/A	--	--	**42**	**1.0**	**1.6**	**0.57**	**0.41**	--	--	--	**94**	**100**	**92**	**100**	**130**	**100**	**91**	**110**	**110**	**120**	**120**
Methane	mg/L	N/A	N/A	--	--	**0.83**	< 0.58	**3.0**	**0.37**	**0.9**	--	--	--	**57**	**75**	**140**	**210**	**240**	**230**	**200**	**160**	**320**	**22**	**240**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	**7.7**	**4.0**	**3.6**	**4.8**	--	--	--	**24**	**15**	**14**	**19**	**22**	**17**	**15**	**13**	**19**	**15**	**15**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	**7.2**	**2.4**	**1.4**	**1.2**	**1.7**	--	--	--	**2.9**	**0.97**	**1.2**	**0.77**	**1.1**	**1.4**	**2.4**	**1.7**	**0.72**	**5.4**	**5.1**
Laboratory Results - Organic Constituents																							
Volatile Organic Compounds																							
Benzene	µg/L	5.0*	9	<5.0	<5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**15**	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1700	<5.0	<5.0	< 2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	<5.0	<5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	<5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Naphthalene	µg/L	31,000	200,000	<5.0	<5.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																							
Acenaphthene	µg/L	2,000*	6,100	<0.50	<0.50	< 0.20	--	--	--	--	--	--	--	< 10	< 10	< 10	**30**	**44**	**50**	**60**	**39**	**22** J	**21**	**21**
Acenaphthylene	µg/L	470	3,100	<1.0	<1.0	< 0.20	--	--	--	--	--	--	--	< 10	< 10	**14**	**14**	**28**	**30**	**45**	**18**	< 10	**11**	< 10
Anthracene	µg/L	4,700	31, 000	<0.050	<0.050	< 0.20	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	<0.050	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	<0.050	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	<0.050	<0.050	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	<10	<10	< 2.0	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	<0.10	<0.10	< 0.20	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	<0.10	<0.10	< 0.20	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	<0.050	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	<10	<10	< 2.0	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	<10	< 2.0	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	<0.50	<0.50	< 0.20	< 5.0	< 5.0	< 9.8	< 9.8	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenanthrene	µg/L	470	3,100	<0.050	<0.050	< 0.20	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenol	µg/L	9,390	61,000	<10	<10	< 1.0	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	<0.050	<0.050	< 0.20	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Laboratory Results - Inorganic Constituents																							
Antimony	µg/L	6.3	40	--	< 20	< 20	--	--	--	--	--	--	--	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Arsenic	µg/L	50*	50*	--	< 20	< 20	--	--	--	--	--	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	--	**38.3**	**100**	**160**	**28**	**75**	**250**	**193**	**251**	**135**	**135**	**178**	**139**	**180**	**184**	**169**	**148**	**150**	**192**	**180**	**229**
Beryllium	µg/L	31	200	--	< 5.0	< 4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	< 10	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	--	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	--	< 10	< 20	< 20	**24**	< 20	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	--	< 40	< 10	< 10	**13**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	< 20	< 40	< 40	< 40	< 40	< 40	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Zinc	µg/L	4,700	31,000	--	< 0.20	< 20	--	--	--	--	--	--	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Mercury	µg/L	2*	2*	--	< 10	< 0.20	--	--	--	--	--	--	--	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Cyanide	µg/L	310	2,000	--	<0.010	< 10	< 10	**61**	< 10	**12**	**12**	**13**	**22**	**38**	**37**	< 10	**23**	**14**	**21**	**19**	< 10	< 10	**57**	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-104																		
				2/24/2017	8/25/2016	4/5/2016	2/5/2013	2/14/2012	2/21/2011	2/24/2010	8/11/2009	03/15/05	12/16/04	09/30/04	06/09/04	03/03/04	12/17/03	09/08/03	06/11/03	03/12/03	12/11/02	09/17/02	09/02 DUP
Field Groundwater Quality Parameters																						
pH	SU	N/A	N/A	5.73	5.40	6.53	5.73	5.36	5.52	5.85	6.28	5.56	6.21	5.48	5.80	5.60	5.68	5.60	5.65	5.62	5.41	5.24	5.24
Specific Conductance	µS/cm	N/A	N/A	179.2	181.8	300	159	154	168	127	241	217	238	259	280	273	280	279	271	298	316	361	361
Temperature	°Celsius	N/A	N/A	22.49	28.60	21.37	19	17.14	20.02	9.88	31.71	18.90	22.42	26.87	22.72	18.69	20.9	27.19	22.71	17.16	21.96	27.62	27.62
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	2.47	0.43	4.83	1.89	3.77	0.98	5.1	5.76	2.15	1.78	1.20	1.45	2.09	0.77	0.23	0.66	1.45	0.42	0.21	0.21
ORP	mV	N/A	N/A	149.6	171.1	65.8	215.6	7.7	-1.4	122.9	-110	227.9	78.9	148.6	136.8	101.6	215.4	26.5	120.1	232.5	253.1	231.8	231.8
Turbidity	NTU	N/A	N/A	7.60	8.27	3.95	5.55	8.05	6.07	9.21	8.84	4.51	8.69	9.0	1.74	3.52	--	1.82	0.9	4.93	28.9	0.81	0.81
Laboratory Results - Natural Attenuation Parameters																						
Nitrogen, Ammonia	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200
Nitrogen, Nitrate	mg/L	N/A	N/A	--	--	--	**1.5**	**2.7**	**1.9**	**0.79**	**2.2**	**1.54**	**1.44**	**1.63**	**2.61**	**2.36**	**1.87**	**1.57**	**2.11**	**3.15**	**2.74**	**2.63**	**2.61**
Sulfate	mg/L	N/A	N/A	--	--	--	**60**	**47**	**44**	**40**	**55**	**74.2**	**70.7**	**69.8**	**79.5**	**70.4**	**76.6**	**87.5**	**61.8**	**84**	**101**	**111**	**118**
Sulfide	mg/L	N/A	N/A	--	--	--	< 1.0	12	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.00	< 1.00	< 1.00
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**0.0475**	**0.0482**	**0.0301**	**0.106**	**0.105**	**0.138**	**0.248**	**0.183**	**0.192**	**0.200**	**0.262**	**0.264**
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**0.0782**	**0.0556**	**0.0327**	**0.104**	**0.12**	**0.145**	**0.233**	**0.177**	**0.192**	**0.212**	**0.256**	**0.237**
Ferrous Iron	mg/L	N/A	N/A	--	--	--	< 0.10 HF	< 0.10 HF	< 0.010 HF	< 0.010	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.100	< 0.200	< 0.200	< 0.200
Total Iron	mg/L	N/A	N/A	--	--	--	**0.22**	**1.0**	**0.47**	**0.50**	<0.1	**0.571**	**0.471**	**0.230**	< 0.1	**0.189**	**0.415**	< 0.100	**0.208**	**0.371**	**0.157**	**2.31**	**1.07**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	**60**	**1.3**	**0.77**	**0.59**	**2.2**	**100**	**110**	**110**	**130**	**110**	**130**	**110**	**120**	**120**	**120**	**150**	**150**
Methane	mg/L	N/A	N/A	--	--	--	< 0.58	< 0.58	<0.58	<0.19	<0.19	**0.53**	**2.6**	**7.4**	**1.4**	**0.55**	**1.3**	**1.6**	**1.9**	**1.0**	**2.6**	**0.96**	**0.92**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	**18**	**6.4**	**4.8**	**4.1**	**4.4**	**25**	**15**	**11**	**16**	**22**	**18**	**13**	**16**	**20**	**14**	**16**	**14**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	**8.1**	**2.1**	**1.7**	**1.5**	**1.6**	**5.5**	**3.0**	**4.5**	**1.6**	**4.4**	**2.2**	**2.2**	**1.6**	**3.0**	**7.1**	**7.4**	**6.5**
Laboratory Results - Organic Constituents																						
Volatile Organic Compounds																						
Benzene	µg/L	5.0*	9	<5.0	<5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	<5.0	<5.0	< 5.0	< 2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	<5.0	<5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	<5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Naphthalene	µg/L	31,000	200,000	<5.0	<5.0	< 5.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																						
Acenaphthene	µg/L	2,000*	6,100	<0.50	<0.50	< 0.50	< 0.20	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthylene	µg/L	470	3,100	<1.0	<1.0	< 1.0	< 0.20	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Anthracene	µg/L	4,700	31, 000	<0.050	<0.050	< 0.050	< 0.20	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	<0.050	< 0.050	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	<0.050	< 0.050	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	< 0.10	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	< 0.10	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	< 0.050	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	<0.050	<0.050	< 0.050	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	< 0.10	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	<10	<10	< 10	< 2.0	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	<0.10	<0.10	< 0.10	< 0.20	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	<0.10	<0.10	< 0.10	< 0.20	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	<0.050	< 0.050	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	<10	<10	< 10	< 2.0	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	<10	< 10	< 2.0	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	<0.50	<0.50	< 0.50	< 0.20	< 5.0	< 5.0	<9.4	<9.4	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenanthrene	µg/L	470	3,100	<0.050	<0.050	< 0.050	< 0.20	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenol	µg/L	9,390	61,000	<10	<10	< 10	< 0.99	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	<0.050	<0.050	< 0.050	< 0.20	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10	< 10	< 10
Laboratory Results - Inorganic Constituents																						
Antimony	µg/L	6.3	40	--	< 20	< 20	< 20	--	--	--	--	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Arsenic	µg/L	50*	50*	--	< 50	< 50	< 20	--	--	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	--	**36.1**	**109**	**21**	**24**	**28**	**34**	**30**	**29.8**	**29.9**	**37.4**	**29.9**	**29.9**	**31.5**	**30.7**	**30.2**	**25**	**35**	**38**	**36**
Beryllium	µg/L	31	200	--	< 10	< 10	< 4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	--	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	< 20	< 20	< 40	< 40	< 40	< 40	< 40	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Zinc	µg/L	4,700	31,000	--	< 20	< 20	< 20	--	--	--	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Mercury	µg/L	2*	2*	--	< 0.20	< 0.20	< 0.20	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Cyanide	µg/L	310	2,000	--	< 10	< 10	< 10	< 10	< 10	< 10	12	< 10	< 10	< 10	< 10	< 10	< 10	**10**	< 10	< 10	< 10	**11**	**11**

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-104I															MW-105			
				2/5/2013	2/14/2012	2/21/2011	2/24/2010	8/11/2009	03/15/05	12/15/04	09/30/04	6/9/2004	03/03/04	12/17/03	09/08/03	06/11/03	03/11/03	12/11/02	09/19/02	08/16/17	04/07/16	02/06/13	06/11/03
Field Groundwater Quality Parameters																						
pH	SU	N/A	N/A	5.90	5.74	5.73	6.00	6.20	5.80	7.14	5.42	6.05	5.91	6.02	4.82	6.07	5.93	5.78	5.47	5.59	5.56	5.04	5.39
Specific Conductance	µS/cm	N/A	N/A	151	137	153	128	218	224	242	248	257	274	275	303	326	318	316	308	359.67	607	317	238
Temperature	°Celsius	N/A	N/A	20.51	16.86	20.42	12.32	31.7	19.35	24.08	27.6	22.61	18.45	21.89	27.81	23.02	18.57	23.5	27.9	24.44	19.95	20.97	21.75
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	0.81	3.82	0.42	2.01	5.46	0.77	0.44	0.35	0.79	0.70	0.50	0.30	0.08	0.23	0.07	0.10	1.28	1.08	1.80	1.51
ORP	mV	N/A	N/A	166.1	-21	-10.8	71.6	-134.2	212.4	-68.1	56.8	130.8	73.9	199.2	20.5	72.5	190.2	218.3	208	119.38	98.7	257.2	208.7
Turbidity	NTU	N/A	N/A	0.1	6.03	9.25	8.72	0.91	4.51	3.82	3.97	1.19	3.74	--	4.91	0	3.11	2.80	3.51	1.42	8.43	9.9	12.8
Laboratory Results - Natural Attenuation Parameters																							
Nitrogen, Ammonia	mg/L	N/A	N/A	--	--	--	--	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.200	< 0.200	< 0.200	< 0.200	--	--	--	< 0.200
Nitrogen, Nitrate	mg/L	N/A	N/A	**0.77**	**1.6**	**0.63**	**0.63**	**0.85**	**0.85**	**0.764**	**0.851**	**0.909**	**1.25**	**0.367**	**0.362**	**0.977**	**1.24**	**0.935**	**0.757**	--	--	**3.8**	**2.10**
Sulfate	mg/L	N/A	N/A	**31**	**29**	**33**	**33**	**36**	**48.4**	**50.6**	**51.1**	**53.1**	**60.2**	**58.3**	**58.8**	**48.6**	**69.8**	**72.4**	**85.4**	--	--	**100**	**41.8**
Sulfide	mg/L	N/A	N/A	< 1.0	**110**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.00	< 1.00	--	--	< 1.0	< 1.0
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	**0.166**	**0.160**	**0.197**	**0.429**	**0.414**	**0.503**	**0.502**	**0.529**	**0.697**	**0.694**	**0.79**	--	--	--	**0.0382**
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	**0.268**	**0.174**	**0.191**	**0.429**	**0.444**	**0.504**	**0.514**	**0.532**	**0.706**	**0.705**	**0.735**	--	--	--	**0.0522**
Ferrous Iron	mg/L	N/A	N/A	< 0.10 HF	< 0.10 HF	< 0.010 HF	< 0.010	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.100	< 0.200	< 0.200	--	--	< 0.10 HF	< 0.1
Total Iron	mg/L	N/A	N/A	< 0.10	< 0.10	**0.58**	**0.58**	<0.1	**5.73**	**0.533**	**1.75**	**0.209**	< 0.1	**0.496**	**3.52**	**0.118**	**0.475**	< 0.100	6.93	--	--	**0.21**	**0.662**
Carbon Dioxide	mg/L	N/A	N/A	**62**	**1.3**	**0.61**	**0.61**	**0.25**	**110**	**120**	**130**	**110**	**110**	**110**	**110**	**110**	**120**	**110**	**130**	--	--	**140**	**170**
Methane	mg/L	N/A	N/A	**0.7**	< 0.58	**0.48**	**0.48**	<0.19	**0.37**	**1.8**	**2.9**	**0.55**	**1.9**	**4.1**	**6.5**	**4.0**	**1.7**	**1.5**	**7.9**	--	--	< 0.58	**0.93**
Dissolved Nitrogen	mg/L	N/A	N/A	**17**	**5.0**	**4.1**	**4.1**	**4.4**	**26**	**17**	**16**	**16**	**20**	**20**	**13**	**16**	**21**	**16**	**22**	--	--	--	**13**
Dissolved Oxygen	mg/L	N/A	N/A	**6.9**	**1.7**	**1.4**	**1.4**	**1.6**	**4.2**	**2.0**	**3.0**	**1.2**	**2.0**	**3.2**	**1.2**	**1.3**	**1.8**	**7.5**	**8.9**	--	--	**7.1**	**2.4**
Laboratory Results - Organic Constituents																							
Volatile Organic Compounds																							
Benzene	µg/L	5.0*	9	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	< 2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 5.0	< 5.0	< 2.0	--
Ethylbenzene	µg/L	700*	2,300	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0
Toluene	µg/L	1,000*	1,100	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0
Naphthalene	µg/L	31,000	200,000	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 5.0
Semivolatile Organic Compounds																							
Acenaphthene	µg/L	2,000*	6,100	< 0.20	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<0.50	< 0.50	< 0.20	< 10
Acenaphthylene	µg/L	470	3,100	< 0.20	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<1.0	< 1.0	< 0.20	< 10
Anthracene	µg/L	4,700	31, 000	< 0.20	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<0.050	< 0.050	< 0.20	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.069**	< 0.050	< 0.20	--
Benzo[a]pyrene	µg/L	0.2*	0.39	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.050	< 0.050	< 0.20	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.10	< 0.10	< 0.20	--
Benzo[g,h,i]perylene	µg/L	10	10	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.10	< 0.10	< 0.20	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.050	< 0.050	< 0.20	--
Chrysene	µg/L	117	392	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.050	< 0.050	< 0.20	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.10	< 0.10	< 0.20	--
2,4-Dimethylphenol	µg/L	700*	700*	< 2.0	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	< 10	< 2.0	< 10
Fluoranthene	µg/L	1,000*	4,100	< 0.20	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<0.10	< 0.10	< 0.20	< 10
Fluorene	µg/L	1,000*	4,100	< 0.20	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<0.10	< 0.10	< 0.20	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.050	< 0.050	< 0.20	--
2-Methylphenol	µg/L	780	5,100	< 2.0	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	< 10	< 2.0	< 10
3 & 4 Methylphenol	µg/L	78	510	< 2.0	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	< 10	< 2.0	< 10
Naphthalene	µg/L	20*	20*	< 0.20	< 5.0	< 5.0	< 10	<11	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<0.50	< 0.50	< 0.20	< 10
Phenanthrene	µg/L	470	3,100	< 0.20	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<0.050	< 0.050	< 0.20	< 10
Phenol	µg/L	9,390	61,000	< 0.99	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	< 10	< 0.99	< 10
Pyrene	µg/L	1,000*	3,100	< 0.20	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10	< 10	<0.050	< 0.050	< 0.20	< 10
Laboratory Results - Inorganic Constituents																							
Antimony	µg/L	6.3	40	< 20	--	--	--	--	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	--	< 0.0200	< 20	< 40
Arsenic	µg/L	50*	50*	< 20	--	--	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	--	< 0.0500	< 20	< 50
Barium	µg/L	2,000	7,200	**20**	**21**	**22**	**24**	**28**	**37.2**	**36.7**	**38.2**	**35.5**	**34.8**	**39.6**	**44.0**	**38.8**	**38**	**42**	**40**	--	**49**	**32**	**59.6**
Beryllium	µg/L	31	200	< 4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0100	< 4.0	--
Cadmium	µg/L	7.8	51	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0050	< 5.0	--
Chromium	µg/L	100	310	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	< 0.0100	< 10	< 10
Copper	µg/L	630	4,100	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	< 0.0100	< 20	< 10
Lead	µg/L	15*	15*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	< 0.0100	< 10	< 10
Nickel	µg/L	100	2,000	< 40	< 40	< 40	< 40	< 40	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	< 0.0200	< 40	< 20
Zinc	µg/L	4,700	31,000	< 20	--	--	--	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	< 0.0200	< 20	< 20
Mercury	µg/L	2*	2*	< 0.20	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.00020	< 0.20	< 0.5
Total Cyanide	µg/L	310	2,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	< 0.010	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-106														MW-107												
				08/15/17	08/24/16	04/29/15	02/06/13	06/06/06	03/08/06	12/22/05	09/29/05	03/15/05	12/15/04	10/01/04	03/02/04	12/16/03	09/10/03	08/16/17	04/04/16	02/06/13	06/06/06	03/08/06	12/21/05	09/29/05	12/15/04	10/01/04	03/02/04	03/04 DUP	12/16/03	09/10/03	09/03 DUP
Field Groundwater Quality Parameters																														
pH	SU	N/A	N/A	5.81	5.69	3.56	5.55	5.53	5.64	5.90	5.49	5.09	5.24	5.18	5.12	4.95	3.87	5.87	6.16	6.13	6.38	6.35	6.39	6.29	6.15	6.28	6.05	6.05	5.93	5.92	5.92
Specific Conductance	µS/cm	N/A	N/A	419.55	450.2	317	451	515	425	557	553	361	426	550	516	849	393	330.06	303	469	556	483	488	524	527	502	448	448	789	496	496
Temperature	°Celsius	N/A	N/A	26.28	24.40	17.43	20.93	21.51	21.04	22.55	23.83	20.49	22.8	23.61	21.44	22.61	24.22	25.21	21.23	18.88	21.80	19.53	21.21	25.83	22.49	26.05	19.69	19.69	21.69	24.89	24.89
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	0.43	0.83	3.56	0.73	0.35	0.42	0.75	0.20	0.43	3.07	0.30	0.45	0.25	0.33	0.11	0.19	0.17	0.19	0.22	0.42	0.22	1.79	0.39	0.35	0.35	0.40	0.15	0.15
ORP	mV	N/A	N/A	163.37	419.6	59.4	148.4	186.8	180.6	158.2	-33.7	267.5	154.7	81.1	113.4	123.8	180.5	84.07	51.6	-58.3	-89.1	-90.7	-66.7	-110.6	-81.6	-193.3	28.3	28.3	-111.7	-94	-94
Turbidity	NTU	--	--	0.59	1.27	9.02	2.07	3.93	4.9	4.7	5.98	4.32	3.7	7.10	7.55	--	15.1	0.89	31.7	9.83	3.20	4.2	4.87	4.54	5.0	2.93	10.6	10.6	--	4.8	4.8
Laboratory Results - Natural Attenuation Parameters																														
Nitrogen, Ammonia	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--	--	**2.26**	**1.08**	**1.76**	**1.02**	**35.2**	**1.46**	**1.46**
Nitrogen, Nitrate	mg/L	N/A	N/A	--	--	--	**0.37**	--	--	--	--	**1.68**	**0.588**	< 0.0500	**0.124**	**0.0649**	< 0.0500	--	--	< 0.050	--	--	--	--	< 0.0500	< 0.0500	< 0.250	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Sulfate	mg/L	N/A	N/A	--	--	--	**120**	--	--	--	--	**143**	**63.6**	**135**	**147**	**128**	**147**	--	--	**130**	--	--	--	--	**82.1**	**82.9**	**122**	**83.7**	**94.5**	**159**	**155**
Sulfide	mg/L	N/A	N/A	--	--	--	< 1.0	--	--	--	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 1.0	--	--	--	--	< 1.0	1.2	< 1.0	1.3	< 1.0	< 1.0	< 1.0
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**0.266**	**0.209**	**0.239**	**0.358**	**0.512**	**0.511**	--	--	--	--	--	--	--	**0.480**	**0.528**	**0.691**	**0.696**	**0.792**	**1.03**	**1.03**
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**0.276**	**0.215**	**0.231**	**0.368**	**0.507**	**0.487**	--	--	--	--	--	--	--	**0.511**	**0.504**	**0.72**	**0.724**	**0.778**	**1.00**	**1.02**
Ferrous Iron	mg/L	N/A	N/A	--	--	--	< 0.10 HF	--	--	--	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**0.3**	--	--	**9.3** HF	--	--	--	--	**5.2**	**5.5**	**6.5**	**8.9**	**5.0**	**7.7**	**7.8**
Total Iron	mg/L	N/A	N/A	--	--	--	**0.28**	--	--	--	--	**0.544**	< 0.100	**0.202**	**0.302**	**0.340**	**0.610**	--	--	**9.6**	--	--	--	--	**5.55**	**5.54**	**7.16**	**7.23**	**8.33**	**8.30**	**8.62**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	**140**	--	--	--	--	**200**	**210**	**250**	**230**	**240**	**75**	--	--	**100**	--	--	--	--	**120**	**140**	**150**	**150**	**110**	**81**	**73**
Methane	mg/L	N/A	N/A	--	--	--	**1.3**	--	--	--	--	**0.44**	**3.8**	**33**	**3.8**	**27**	**1.9**	--	--	< 0.58	--	--	--	--	**590**	**680**	**750**	**650**	**900**	**560**	**490**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**23**	**21**	**15**	**20**	**16**	**18**	--	--	--	--	--	--	--	**16**	**12**	**20**	**21**	**16**	**14**	**13**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	**6.4**	--	--	--	--	**4.2**	**2.6**	**1.8**	**2.4**	**1.4**	**2.8**	--	--	**5.6**	--	--	--	--	**3.5**	**0.76**	**1.0**	**1.3**	**2.1**	**0.98**	**0.94**
Laboratory Results - Organic Constituents																														
Volatile Organic Compounds																														
Benzene	µg/L	5.0*	9	< 5.0	<5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	< 5.0	<5.0	< 5.0	< 2.0	--	--	--	--	--	--	--	--	--	--	< 5.0	< 5.0	< 2.0	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	< 5.0	<5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Naphthalene	µg/L	1,000*	1,100	< 5.0	<5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	< 5.0	<5.0	< 5.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																														
Acenaphthene	µg/L	2,000*	6,100	<0.50	<0.50	< 10	< 0.22	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	**0.80**	**1.3**	**1.6**	--	--	--	--	< 10	< 10	< 10	< 10	< 10	**10**	< 10
Acenaphthylene	µg/L	470	3,100	<1.0	<1.0	< 10	< 0.22	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	<1.0	< 1.0	< 0.20	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Anthracene	µg/L	4,700	31, 000	<0.050	**0.062**	< 10	< 0.22	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	**0.096**	0.082	< 0.20	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	<0.050	<0.050	< 0.22	--	--	--	--	--	--	--	--	--	--	<0.050	< 0.050	< 0.20	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	<0.050	< 0.050	< 0.22	--	--	--	--	--	--	--	--	--	--	<0.050	< 0.050	< 0.20	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	< 0.10	< 0.22	--	--	--	--	--	--	--	--	--	--	<0.10	< 0.10	< 0.20	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	< 10	< 0.22	--	--	--	--	--	--	--	--	--	--	<0.10	< 0.10	< 0.20	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	< 10	< 0.22	--	--	--	--	--	--	--	--	--	--	<0.050	< 0.050	< 0.20	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	<0.050	<0.050	< 10	< 0.22	--	--	--	--	--	--	--	--	--	--	<0.050	< 0.050	< 0.20	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	< 0.10	< 0.22	--	--	--	--	--	--	--	--	--	--	<0.10	< 0.10	< 0.20	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	<10	<10	< 10	< 2.2	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	<10	< 10	< 2.0	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	<0.10	<0.10	< 10	< 0.22	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	<0.10	< 0.10	**0.28**	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	<0.10	<0.10	< 10	< 0.22	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	**0.64**	**0.41**	**1.3**	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	<0.050	< 0.050	< 0.22	--	--	--	--	--	--	--	--	--	--	<0.050	< 0.050	< 0.20	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	<10	<10	< 10	< 2.2	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	<10	< 10	< 2.0	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	<10	< 10	< 2.2	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	<10	< 10	< 2.0	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	<0.50	<0.50	< 10	< 0.22	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**47**	<0.50	**0.79**	< 0.20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**69**	**62**
Phenanthrene	µg/L	470	3,100	<0.050	<0.050	< 10	< 0.22	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	<0.050	< 0.050	< 0.20	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenol	µg/L	9,390	61,000	<10	<10	< 10	< 1.1	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	<10	< 10	< 1.0	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	<0.050	**0.47**	< 10	< 0.22	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	**0.79**	**0.36**	**1.4**	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	--
Laboratory Results - Inorganic Constituents																														
Antimony	µg/L	6.3	40	--	< 20	< 20	< 20	--	--	--	--	< 40	< 40	< 40	< 40	< 40	< 40	--	< 20	< 20	--	--	--	--	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Arsenic	µg/L	50*	50*	--	< 50	< 50	< 20	--	--	--	--	< 50	< 50	< 50	< 50	< 50	< 50	--	< 50	< 20	--	--	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	--	**34.9**	**32.8**	**25**	**29.8**	**25.8**	**30.1**	< 20	**31.1**	**26.9**	**29.2**	**33.5**	**33.7**	**33.3**	--	**49.1**	**26.0**	**42.8**	**39.2**	**44.5**	**41.6**	**50.2**	**38.3**	**44.3**	**44.0**	**52.8**	**65.3**	**67.3**
Beryllium	µg/L	31	200	--	< 10	< 10	< 4.0	--	--	--	--	--	--	--	--	--	--	--	< 10	< 4.0	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	--	< 10	< 10	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	--	< 10	< 10	< 20	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	< 10	< 20	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	--	< 10	11.9	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	< 20	< 20	< 40	< 20.0	< 20.0	< 20.0	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	< 20	< 40	< 20.0	< 20.0	< 20.0	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Zinc	µg/L	4,700	31,000	--	< 20	< 20	< 20	--	--	--	--	< 20	< 20	< 20	24.7	< 20	< 20	--	< 20	< 20	--	--	--	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Mercury	µg/L	2*	2*	--	< 0.20	< 0.20	< 0.20	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.20	< 0.20	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Cyanide	µg/L	310	2,000	--	**72**	**94**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**10**	--	< 10	**14**	< 10	**13**	< 10	**12**	< 10	< 10	< 10	< 10	**11**	< 10	**16**

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-108												MW-109											
				08/16/17	02/22/17	08/24/16	04/29/15	02/06/13	02/07/12	02/18/11	02/23/10	08/12/09	03/15/05	12/16/04	10/01/04	06/10/04	02/22/17	08/24/16	04/29/15	08/08/13	02/06/13	02/08/12	02/16/11	02/16 DUP	02/23/10	08/12/09	03/15/05	12/16/04
Field Groundwater Quality Parameters																											
pH	SU	N/A	N/A	6.36	6.37	6.11	6.10	6.02	5.99	6.13	6.09	6.5	6.19	5.29	6.11	6.45	4.90	5.08	4.86	4.85	4.53	4.43	4.48		4.75	4.51	4.71	5.93
Specific Conductance	µS/cm	N/A	N/A	676.30	465.90	469.0	376	286	271	275	227	225	182	215	220	203	170.20	172.5	169	146	122	130	137		140	152	207	140
Temperature	°Celsius	N/A	N/A	30.20	21.79	23.55	19.09	21.19	20.71	20.4	18.59	28.28	20.07	22.74	25.13	22.15	20.92	29.53	19.49	25.55	20.78	20.69	20.15		17.49	25.85	20.31	24.02
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	0.26	0.09	0.28	0.61	1.25	1.46	0.32	1.99	2.15	4.13	0.43	0.98	0.99	1.70	0.21	0.169	1.23	6.08	1.47	6.27		4.41	3.38	5.25	5.82
ORP	mV	N/A	N/A	-18.60	-59.60	-36.6	-39.40	154.9	9.2	39.9	64.3	47	50.9	-57	46.5	36.6	151.2	134.4	-38.3	189.2	342.6	10.2	413		153.20	-140.5	242.9	152.1
Turbidity	NTU	N/A	N/A	1.79	1.76	7.15	7.97	4.07	9.37	2.91	9.51	4.96	1.74	3.09	0.00	33.3	0.27	0.66	1.36	0.48	1.62	4.54	9.12		2.34	0.51	5.64	18.3
Laboratory Results - Natural Attenuation Parameters																											
Nitrogen, Ammonia	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--	--	--	--	--	< 0.20	< 0.20
Nitrogen, Nitrate	mg/L	N/A	N/A	--	--	--	--	**0.07**	**0.12**	**0.38**	**0.07**	< 0.050	**0.304**	**0.0596**	< 0.05	**0.131**	--	--	--	--	**0.37**	**0.52**	**0.055**	**0.064**	**0.29**	**0.1**	**1.46**	**0.984**
Sulfate	mg/L	N/A	N/A	--	--	--	--	**36**	**33**	**24**	**24**	**25**	**9.63**	**13.5**	**16.4**	**14.3**	--	--	--	--	**29**	**30**	**27**	**26**	**31**	**37**	**54.1**	**24.5**
Sulfide	mg/L	N/A	N/A	--	--	--	--	< 1.0	**1.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	--	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	**0.144**	**0.178**	**0.164**	**0.182**	--	--	--	--	--	--	--	--	--	--	**0.164**	**0.218**
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	**0.157**	**0.173**	**0.162**	**0.183**	--	--	--	--	--	--	--	--	--	--	**0.181**	**0.176**
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	**0.29** HF	**2.2** HF	**3.1** HF	**1.4**	**0.87**	**1.9**	**1.4**	**2.2**	**0.7**	--	--	--	--	< 0.10 HF	< 0.10 HF	< 0.010 HF	< 0.010	< 0.010	< 0.1	< 0.1	< 0.1
Total Iron	mg/L	N/A	N/A	--	--	--	--	**0.61**	**2.6**	**3.2**	**2.8**	**1.2**	**2.09**	**1.56**	**1.58**	**1.71**	--	--	--	--	**31**	< 0.10	**0.36**	**0.22**	**0.11**	< 0.010	**1.47**	**0.302**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	**81**	**1.3**	**0.56**	**0.8**	**0.69**	**76**	**72**	**75**	**69**	--	--	--	--	**180**	**1.9**	**0.76**	**0.65**	**1.30**	**0.83**	**120**	**100**
Methane	mg/L	N/A	N/A	--	--	--	--	**8.1**	**11**	**3.0**	**16**	**5.4**	**13**	**8.5**	**11**	**11**	--	--	--	--	< 0.58	**0.70**	<0.58	<0.58	**0.51**	**1.6**	**2.6**	**8.6**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	**5.9**	**4.2**	**3.7**	**4.6**	**25**	**16**	**19**	**16**	--	--	--	--	--	**4.9**	**4.2**	**4.4**	**4.5**	**4.4**	**22**	**18**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	**7.3**	**1.8**	**1.5**	**1.3**	**1.6**	**4.6**	**2.2**	**3.6**	**1.2**	--	--	--	--	**5.5**	**1.6**	**1.6**	**1.7**	**1.5**	**1.5**	**8.0**	**7.2**
Laboratory Results - Organic Constituents																											
Volatile Organic Compounds																											
Benzene	µg/L	5.0*	9	<5.0	<5.0	<5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1700	<5.0	<5.0	<5.0	< 5.0	< 2.0	--	--	--	--	--	--	--	--	<5.0	<5.0	< 5.0	< 5.0	< 2.0	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	<5.0	<5.0	<5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	<5.0	<5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Naphthalene	µg/L	31,000	200,000	<5.0	<5.0	<5.0	< 5.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																											
Acenaphthene	µg/L	2,000*	6,100	**1.3**	<0.50	<0.50	< 10	< 0.25	--	--	--	--	< 10	< 10	< 10	< 10	<0.50	<0.50	< 10	< 10	**4.4**	--	--	--	--	--	< 10	< 10
Acenaphthylene	µg/L	470	3,100	<1.0	<1.0	<1.0	< 10	< 0.25	--	--	--	--	< 10	< 10	< 10	< 10	<1.0	<1.0	< 10	< 10	**11**	--	--	--	--	--	< 10	< 10
Anthracene	µg/L	4,700	31, 000	**0.38**	**0.29**	**0.23**	< 10	< 0.25	--	--	--	--	< 10	< 10	< 10	< 10	**0.099**	<0.050	< 10	< 10	**1.8**	--	--	--	--	--	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	<0.050	<0.050	<0.050	< 0.25	--	--	--	--	--	--	--	--	<0.050	<0.050	<0.050	< 0.20	**2.6**	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	<0.050	<0.050	< 0.050	< 0.25	--	--	--	--	--	--	--	--	<0.050	<0.050	< 0.050	< 0.20	**3.2**	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	<0.10	< 0.10	< 0.25	--	--	--	--	--	--	--	--	<0.10	<0.10	< 0.10	< 0.20	**1.7**	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	<0.10	< 10	< 0.25	--	--	--	--	--	--	--	--	<0.10	<0.10	< 10	< 10	**1.1**	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	<0.050	< 10	< 0.25	--	--	--	--	--	--	--	--	<0.050	<0.050	< 10	< 10	**2.2**	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	<0.050	<0.050	<0.050	< 10	< 0.25	--	--	--	--	--	--	--	--	<0.050	<0.050	< 10	< 10	**2.5**	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	<0.10	< 0.10	< 0.25	--	--	--	--	--	--	--	--	<0.10	<0.10	< 0.10	< 0.20	**0.30**	--	--	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	<10	<10	<10	< 10	< 2.5	--	--	--	--	< 10	< 10	< 10	< 10	<10	<10	< 10	< 10	< 2.0	--	--	--	--	--	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	<0.10	<0.10	<0.10	< 10	< 0.25	--	--	--	--	< 10	< 10	< 10	< 10	<0.10	<0.10	< 10	< 10	**4.7**	--	--	--	--	--	< 10	< 10
Fluorene	µg/L	1,000*	4,100	**0.36**	<0.10	**0.11**	< 10	< 0.25	--	--	--	--	< 10	< 10	< 10	< 10	**0.17**	<0.10	< 10	< 10	**6.3**	--	--	--	--	--	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	<0.050	<0.050	< 0.050	< 0.25	--	--	--	--	--	--	--	--	<0.050	<0.050	< 0.050	< 0.20	**0.65**	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	<10	<10	<10	< 10	< 2.5	--	--	--	--	< 10	< 10	< 10	< 10	<10	<10	< 10	< 10	< 2.0	--	--	--	--	--	< 10	< 10
3 & 4-Methylphenol	µg/L	78	510	<10	<10	<10	< 10	< 2.5	--	--	--	--	< 10	< 10	< 10	< 10	<10	<10	< 10	< 10	< 2.0	--	--	--	--	--	< 10	< 10
Naphthalene	µg/L	20*	20*	<0.50	<0.50	**4.1**	< 10	< 0.25	< 5.0	< 5.0	<9.8	<9.4	< 10	< 10	< 10	< 10	<0.50	<0.50	< 10	< 10	**44**	< 5.0	< 5.0	< 5.0	<9.4	<11	< 10	< 10
Phenanthrene	µg/L	470	3,100	**0.067**	<0.050	**0.064**	< 10	< 0.25	--	--	--	--	< 10	< 10	< 10	< 10	**0.10**	<0.050	< 10	< 10	**8.7**	--	--	--	--	--	< 10	< 10
Phenol	µg/L	9,390	61,000	<10	<10	<10	< 10	< 1.2	--	--	--	--	< 10	< 10	< 10	< 10	<10	<10	< 10	< 10	< 0.99	--	--	--	--	--	< 10	< 10
Pyrene	µg/L	1,000*	3,100	**0.69**	**0.27**	**0.30**	< 10	< 0.25	--	--	--	--	< 10	< 10	< 10	< 10	<0.050	<0.050	< 10	< 10	**7.4**	--	--	--	--	--	< 10	< 10
Laboratory Results - Inorganic Constituents																											
Antimony	µg/L	6.3	40	--	--	< 20	< 20	< 20	--	--	--	--	< 40	< 40	< 40	< 40	--	< 20	< 20	< 20	< 20	--	--	--	--	--	< 40	< 40
Arsenic	µg/L	50*	50*	--	--	< 50	< 50	< 20	--	--	--	--	< 50	< 50	< 50	< 50	--	< 50	< 50	< 50	< 20	--	--	--	--	--	< 50	< 50
Barium	µg/L	2,000	7,200	--	--	**39.3**	**61.1**	**79**	**78**	**61**	**62**	**54**	**47.2**	**53.0**	**51.7**	**56.9**	--	**82.3**	**78.6**	**73.4**	**36**	**75**	**97**	**98**	**77**	**58**	**164**	**402**
Beryllium	µg/L	31	200	--	--	< 10	< 10	< 4.0	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 4.0	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	--	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--
Chromium	µg/L	100	310	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	--	--	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 10
Lead	µg/L	15*	15*	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	--	< 20	< 20	< 40	< 40	< 40	< 40	< 40	< 20	< 20	< 20	< 20	--	< 20	< 20	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 20	< 20
Zinc	µg/L	4,700	31,000	--	--	< 20	< 20	< 20	--	--	--	--	< 20	< 20	< 20	< 20	--	< 20	< 20	< 20	< 20	--	--	--	--	--	**38.8**	< 20
Mercury	µg/L	2*	2*	--	--	< 0.20	< 0.20	< 0.20	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--	< 0.5	< 0.5
Total Cyanide	µg/L	310	2,000	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**30**

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 2 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-201 (Abandoned)																			
				08/08/13	02/06/13	11/08/12	08/08/12	05/17/12	02/16/12	11/17/11	08/11/11	05/04/11	2/15/2011	11/10/2010	8/10/2010	08/10 DUP	5/11/2010	02/24/10	08/13/09	08/09 DUP	06/08/06	03/10/06	12/22/05	09/29/05
Field Groundwater Quality Parameters																							
pH	SU	N/A	N/A	5.05	5.18	5.34	4.38	5.31	5.16	5.05	5.09	5.41	5.36	4.89	5.69	5.69	5.42	5.38	5.14	5.14	5.61	4.52	5.02	6.23
Specific Conductance	µS/cm	N/A	N/A	383	263	311	259	291	283	270	297	361	286	270	326	326	360	391	351	351	271	502	408	537
Temperature	°Celsius	N/A	N/A	23.23	21.42	16.87	22.75	23.04	20.10	23.12	26.92	20.23	20.47	24.36	23.76	23.76	21.74	16.98	25.35	25.35	24.41	20.70	23.27	25.74
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	5.62	0.54	1.48	1.58	6.21	0.32	0.20	0.88	0.54	0.72	0.27	3.30	3.30	0.69	0.87	2.75	2.75	0.50	0.30	0.43	0.65
ORP	mV	N/A	N/A	-75.2	18	16.3	123.3	2.5	3.0	44.6	262.4	-28.6	39.9	71.5	-99.2	-99.2	-19.1	32.8	103.1	103.1	230.8	96.3	96.0	-69.1
Turbidity	NTU	N/A	N/A	0.51	1.31	1.67	683	1.95	2.73	1.07	4.5	0.85	0.75	1.41	3.37	3.37	1.34	1.42	0.00	0.00	7.34	4.6	4.96	3.52
Laboratory Results - Natural Attenuation Parameters																								
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	< 0.050	--	--	--	**0.083**	--	--	--	**0.32**	--	--	--	--	< 0.050	**0.077**	**0.074**	--	--	--	--
Sulfate	mg/L	N/A	N/A	--	< 5.0	--	--	--	**60**	--	--	--	**66**	--	--	--	--	**120**	**110**	**110**	--	--	--	--
Sulfide	mg/L	N/A	N/A	--	< 1.0	--	--	--	**1.9**	--	--	--	< 1.0	--	--	--	--	< 1.0	< 1.0	< 1.0	--	--	--	--
Ferrous Iron	mg/L	N/A	N/A	--	**29** HF	--	--	--	**16** HF	--	--	--	**10** HF	--	--	--	--	**4.5**	**9.1**	**8.9**	--	--	--	--
Total Iron	mg/L	N/A	N/A	--	**28**	--	--	--	**15**	--	--	--	**11**	--	--	--	--	**4.5**	**9.1**	**9.1**	--	--	--	--
Carbon Dioxide	mg/L	N/A	N/A	--	**160**	--	--	--	**3.7**	--	--	--	**1.9**	--	--	--	--	**2**	**1.7**	**1.7**	--	--	--	--
Methane	mg/L	N/A	N/A	--	**250**	--	--	--	**350**	--	--	--	**190**	--	--	--	--	**100**	**96**	**100**	--	--	--	--
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	**4.6**	--	--	--	**4.2**	--	--	--	--	**4**	**4.2**	**4.2**	--	--	--	--
Dissolved Oxygen	mg/L	N/A	N/A	--	**5.8**	--	--	--	**1.6**	--	--	--	**1.4**	--	--	--	--	**1.3**	**1.5**	**1.5**	--	--	--	--
Laboratory Results - Organic Constituents																								
Volatile Organic Compounds																								
Benzene	µg/L	5*	9	**390**	**1,700**	**2,400**	**2,300**	**2,500**	**550**	**2,500**	**2,900**	**510**	**730**	**3,300**	**2,500**	**2,700**	**1,100**	**350**	**310**	**410**	**4,400**	**710**	**2,600**	**1,900**
Carbon Disulfide	µg/L	329	1,700	< 5.0	< 40	< 40	< 40	< 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	**220**	**1,100**	**1,300**	**1,700**	**1,700**	**410**	**1,100**	**1,300**	**370**	**510**	--	--	--	--	**190**	**180**	**220**	**1,800**	**500**	**1,100**	**840**
Toluene	µg/L	1,000*	1,100	**8.8**	**62**	**77**	**64**	**91**	< 100	<250	**120**	< 100	**31**	--	--	--	--	**11**	<25	<25	**220**	**23**	**91**	**40**
Total Xylenes	µg/L	31,000	200,000	**380**	**2,100**	**2,500**	**1,400**	**3,200**	**700**	**2,400**	**3,000**	**520**	**1,100**	--	--	--	--	**320**	**240**	**280**	**5,900**	**720**	**2,800**	**1,200**
Semivolatile Organic Compounds																								
Acenaphthene	µg/L	2,000*	6,100	< 10	**19**	**17**	**30**	**47**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	µg/L	470	3,100	< 10	< 2.0	< 0.22	< 2.0	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	µg/L	4,700	31,000	< 10	**2.9**	**3.0**	**4.7**	**7.3**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]anthracene	µg/L	1.17	3.92	< 0.20	< 2.0	< 0.22	< 2.0	< 2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	< 0.20	< 2.0	< 0.22	< 2.0	< 2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	< 0.20	< 2.0	< 0.22	< 2.0	< 2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	< 10	< 2.0	< 0.22	< 2.0	< 2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 10	< 2.0	< 0.22	< 2.0	< 2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	< 10	< 2.0	< 0.22	< 2.0	< 2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 0.20	< 2.0	< 0.22	< 2.0	< 2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimehylphenol	µg/L	700*	700*	< 10	**40**	< 2.2	**69**	**130**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	µg/L	1,000*	4,100	< 10	< 2.0	**1.5**	**2.8**	**2.7**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene	µg/L	1,000*	4,100	< 10	**13**	**11**	**26**	**30**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 0.20	< 2.0	< 0.22	< 2.0	< 2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	< 10	< 20	< 2.2	< 20	< 22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3 & 4 Methylphenol	µg/L	78	510	< 10	< 20	< 2.2	< 20	< 22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	20*	20*	**490**	**1,600**	**2,900**	**1,800 D**	**4,900**	**2,100**	**3,500**	**5,700 ***	**1,700**	**2,200**	**5,500**	**4,800**	**5,900**	**1,500**	**200**	**670**	**580**	**2,400**	**600**	**2,500**	**1,900**
Phenanthrene	µg/L	470	3,100	20	60	**110**	**150**	**160**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenol	µg/L	9,390	61,000	< 10	< 10	< 1.1	**11**	< 11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	< 10	< 2.0	**1.8**	**2.9**	**2.4**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Laboratory Results - Inorganic Constituents																								
Antimony	µg/L	6.3	40	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	50*	50*	< 50	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	2,000	7,200	**25.9**	**860**	**990**	**1,000**	**1,000**	**370**	**1,100**	**910**	**280**	**370**	--	--	--	--	**100**	**190**	**170**	**943**	**190**	**635**	< 20
Beryllium	µg/L	31	200	< 10	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	< 10	< 10	< 10	**34**	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	--	< 10	< 10	< 10	< 10	**10.8**	< 10	< 10
Copper	µg/L	630	4,100	< 10	< 20	< 20	**43**	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	< 20	< 20	< 20	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	< 10	< 10	< 10	**44**	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	--	< 10	< 10	< 10	< 10	**18.2**	< 10	< 10
Nickel	µg/L	100	2,000	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	--	--	--	--	< 40	< 40	< 40	< 20	< 20	< 20	< 20
Zinc	µg/L	4,700	31,000	< 20	< 20	< 20	**100**	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	2*	2*	< 0.20	< 0.20	< 0.20	**0.24**	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Cyanide	µg/L	310	2,000	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-202 (Aband.)		MW-203 (Destroyed)															
				02/11/13	09/29/05	02/11/13	11/08/12	08/08/12	08/12 DUP	05/17/12	02/14/12	11/16/11	08/11/11	05/04/11	02/25/11	11/10/10	08/10/10	08/10 DUP	05/11/10	02/24/10	08/13/09
Field Groundwater Quality Parameters																					
pH	SU	N/A	N/A	5.08	5.9	6.23	6.21	6.41	6.41	6.77	6.14	6.27	6.44	5.99	6.12	6.17	6.11	6.11	6.00	6.38	6.78
Specific Conductance	µS/cm	N/A	N/A	257	377	292	287	144	144	134	150	186	188	327	276	293	246	246	175	76	120
Temperature	°Celsius	N/A	N/A	20.38	26.15	20.59	19.64	24.47	24.47	22.91	18.42	23.92	26.94	19.86	18.71	23.2	24.32	24.32	20.26	12.11	29.32
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	2.23	0.40	1.42	0.91	0.50	0.50	2.40	0.50	0.16	0.50	0.23	0.42	0.19	1.78	1.78	1.25	1.24	5.83
ORP	mV	N/A	N/A	48.5	-23	-33.5	-7.4	-11.4	-11.4	69.6	30.8	-51.7	-55.0	-76.3	-18.2	-60.6	-45.9	-45.9	36.2	50.7	22.1
Turbidity	NTU	N/A	N/A	6.97	3.93	2.71	1.21	6.79	6.79	3.14	9.21	2.54	9.52	5.68	8.6	20.6	9.63	9.63	7.57	24.2	4.5
Laboratory Results - Natural Attenuation Parameters																					
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	**0.062**	--	< 0.050	--	--	--	--	< 0.050	--	--	--	**0.15**	--	--	--	--	**0.26**	< 0.050
Sulfate	mg/L	N/A	N/A	**40**	--	**9.2**	--	--	--	--	**9.0**	--	--	--	< 5.0	--	--	--	--	< 5.0	**310**
Sulfide	mg/L	N/A	N/A	< 1.0	--	< 1.0	--	--	--	--	**2.3**	--	--	--	< 1.0	--	--	--	--	< 1.0	< 1.0
Ferrous Iron	mg/L	N/A	N/A	**16** HF	--	**15** HF	--	--	--	--	**0.99** HF	--	--	--	**13** HF	--	--	--	--	< 0.010	< 0.010
Total Iron	mg/L	N/A	N/A	**18**	--	**31**	--	--	--	--	**2.2**	--	--	--	**26**	--	--	--	--	**1**	**0.34**
Carbon Dioxide	mg/L	N/A	N/A	**160**	--	**110**	--	--	--	--	**750**	--	--	--	**1.6**	--	--	--	--	**0.16**	**1.7**
Methane	mg/L	N/A	N/A	**600**	--	**97**	--	--	--	--	**19**	--	--	--	**230**	--	--	--	--	**2.4**	**1.1**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	--	--	**5400**	--	--	--	**4.2**	--	--	--	--	**4**	**4.2**
Dissolved Oxygen	mg/L	N/A	N/A	**4.6**	--	**5.6**	--	--	--	--	**1700**	--	--	--	**1.3**	--	--	--	--	**1.3**	**1.5**
Laboratory Results - Organic Constituents																					
Volatile Organic Compounds																					
Benzene	µg/L	5*	9	**1,000**	**1,900**	**8.2**	**< 1.0**	**2.2**	**1.2**	**1.5**	**25**	**60**	**65**	**400**	**430**	< 5.0	**150**	**150**	**220**	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	< 20	--	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	**720**	**1,100**	**7.0**	< 1.0	< 1.0	< 1.0	< 1.0	**13**	**7.1**	**9.9**	**120**	**170**	--	--	--	--	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	**23**	**23**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	<25	--	--	--	--	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	**470**	**660**	**2.9**	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	< 5.0	< 5.0	**20**	**43**	--	--	--	--	< 5.0	< 5.0
Semivolatile Organic Compounds																					
Acenaphthene	µg/L	2,000*	6,100	**13**	--	**19**	**2.8**	**1.5**	**0.92**	**0.83**	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	µg/L	470	3,100	< 2.1	--	< 0.20	< 0.24	< 0.21	< 0.20	< 0.23	--	--	--	--	--	--	--	--	--	--	--
Anthracene	µg/L	4,700	31,000	**2.1**	--	**0.20**	< 0.24	< 0.21	< 0.20	< 0.23	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]anthracene	µg/L	1.17	3.92	< 2.1	--	< 0.20	< 0.24	< 0.21	< 0.20	< 0.23	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	< 2.1	--	< 0.20	< 0.24	< 0.21	< 0.20	< 0.23	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	< 2.1	--	< 0.20	< 0.24	< 0.21	< 0.20	< 0.23	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	< 2.1	--	< 0.20	< 0.24	< 0.21	< 0.20	< 0.23	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 2.1	--	< 0.20	< 0.24	< 0.21	< 0.20	< 0.23	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	< 2.1	--	< 0.20	< 0.24	< 0.21	< 0.20	< 0.23	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 2.1	--	< 0.20	< 0.24	< 0.21	< 0.20	< 0.23	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimehylphenol	µg/L	700*	700*	< 21	--	< 2.0	< 2.4	< 2.1	< 2.0	< 2.3	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	µg/L	1,000*	4,100	< 2.1	--	**0.30**	**0.24**	< 0.21	< 0.20	< 0.23	--	--	--	--	--	--	--	--	--	--	--
Fluorene	µg/L	1,000*	4,100	**11**	--	**6.4**	**0.83**	**0.52**	**0.30**	< 0.23	--	--	--	--	--	--	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 2.1	--	< 0.20	< 1.9	< 0.21	< 0.20	< 0.23	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	< 21	--	< 2.0	< 2.4	< 2.1	< 2.0	< 2.3	--	--	--	--	--	--	--	--	--	--	--
3 & 4 Methylphenol	µg/L	78	510	< 21	--	< 2.0	< 2.4	< 2.1	< 2.0	< 2.3	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	20*	20*	**1,900**	**1,300**	**4.7**	< 0.24	**1.30**	**0.56**	**0.30**	**7.2**	**21**	**8.4 ***	**220**	**550**	< 5.0	**91**	**80**	**230**	< 9.9	< 9.7
Phenanthrene	µg/L	470	3,100	**69**	--	**0.38**	< 0.24	< 0.21	< 0.20	< 0.23	--	--	--	--	--	--	--	--	--	--	--
Phenol	µg/L	9,390	61,000	< 10	--	< 1.0	< 1.2	**3.7**	**2.9**	< 1.1	--	--	--	--	--	--	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	< 2.1	--	**0.33**	**0.26**	< 0.21	< 0.20	< 0.23	--	--	--	--	--	--	--	--	--	--	--
Laboratory Results - Inorganic Constituents																					
Antimony	µg/L	6.3	40	< 20	--	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	50*	50*	< 20	--	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	2,000	7,200	**560**	**41.6**	**320**	**200**	**97**	**96**	**58**	**120**	**130**	**210**	**510**	**520**	--	--	--	--	**36**	**44**
Beryllium	µg/L	31	200	< 4.0	--	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	< 5.0	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	--	< 10	< 10
Copper	µg/L	630	4,100	< 20	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	< 20	< 20
Lead	µg/L	15*	15*	**17**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	--	< 10	< 10
Nickel	µg/L	100	2,000	< 40	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	--	--	--	--	< 40	< 40
Zinc	µg/L	4,700	31,000	**62**	--	**45**	**92**	**550**	**540**	**160**	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	2*	2*	< 0.20	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--	--	--	--	--	--
Total Cyanide	µg/L	310	2,000	< 10	**12**	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10	--	--	--	--	< 10	19

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-204 (Abandoned)													
				08/05/13	02/11/13	11/06/12	08/07/12	05/15/12	02/13/12	11/17/11	08/09/11	05/03/11	02/15/11	11/09/10	08/11/10	05/11/10	02/24/10	08/14/09
Field Groundwater Quality Parameters																		
pH	SU	N/A	N/A	5.19	6.03	5.72	5.05	5.72	5.78	5.72	5.55	5.69	5.84	5.77	5.94	5.86	6.10	6.12
Specific Conductance	µS/cm	N/A	N/A	702	287	668	673	680	497	719	680	678	385	543	658	601	501	794
Temperature	°Celsius	N/A	N/A	26.72	20.92	20.85	24.52	23.72	19.43	21.54	24.92	20.84	21.05	25.05	25.42	21.91	13.95	25.39
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	1.53	0.86	0.35	0.24	0.35	0.89	0.28	0.91	0.20	1.25	0.36	0.58	0.57	1.68	1.71
ORP	mV	N/A	N/A	-68.0	-12.2	30.6	197.8	173.0	36.8	103.3	106.4	-15.0	103.4	149.0	1.3	57.2	74.9	109.3
Turbidity	NTU	N/A	N/A	1.39	0.44	6.25	2.40	0.58	9.27	5.06	7.67	3.31	9.82	2.33	7.61	8.19	9.34	4
Laboratory Results - Natural Attenuation Parameters																		
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	< 0.050	--	--	--	**0.060**	--	--	--	**0.062**	--	--	--	< 0.050	**0.056**
Sulfate	mg/L	N/A	N/A	--	**54**	--	--	--	**140**	--	--	--	**110**	--	--	--	**150**	**6.8**
Sulfide	mg/L	N/A	N/A	--	< 1.0	--	--	--	< 1.0	--	--	--	< 1.0	--	--	--	< 1.0	< 1.0
Ferrous Iron	mg/L	N/A	N/A	--	**0.15** HF	--	--	--	**0.11** HF	--	--	--	**0.11** HF	--	--	--	< 0.010	**0.13**
Total Iron	mg/L	N/A	N/A	--	< 0.10	--	--	--	**0.36**	--	--	--	**1.9**	--	--	--	**0.82**	**1.3**
Carbon Dioxide	mg/L	N/A	N/A	--	**120**	--	--	--	**1.4**	--	--	--	**1.1**	--	--	--	**2.1**	**0.079**
Methane	mg/L	N/A	N/A	--	< 0.58	--	--	--	**1.1**	--	--	--	<0.58	--	--	--	**7.1**	**4.1**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	**4.5**	--	--	--	**4.3**	--	--	--	**2.9**	**1.7**
Dissolved Oxygen	mg/L	N/A	N/A	--	**5.9**	--	--	--	**1.5**	--	--	--	**1.5**	--	--	--	**0.98**	**1.7**
Laboratory Results - Organic Constituents																		
Volatile Organic Compounds																		
Benzene	µg/L	5*	9	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	< 5.0	< 5.0
Semivolatile Organic Compounds																		
Acenaphthene	µg/L	2,000*	6,100	< 10	< 0.20	< 0.20	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	µg/L	470	3,100	< 10	< 0.20	< 0.20	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--
Anthracene	µg/L	4,700	31,000	< 10	< 0.20	< 0.20	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--
Benzo[a]anthracene	µg/L	1.17	3.92	< 0.20	< 0.20	< 0.20	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	< 0.20	< 0.20	< 0.20	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	< 0.20	< 0.20	< 0.20	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	< 10	< 0.20	< 0.20	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 10	< 0.20	< 0.20	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	< 10	< 0.20	< 0.20	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 0.20	< 0.20	< 0.20	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--
2,4-Dimehylphenol	µg/L	700*	700*	< 10	< 2.0	< 2.0	< 1.9	< 2.3	--	--	--	--	--	--	--	--	--	--
Fluoranthene	µg/L	1,000*	4,100	< 10	< 0.20	< 0.20	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--
Fluorene	µg/L	1,000*	4,100	< 10	< 0.20	< 0.20	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 0.20	< 0.20	< 0.20	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	< 10	< 2.0	< 2.0	< 1.9	< 2.3	--	--	--	--	--	--	--	--	--	--
3 & 4 Methylphenol	µg/L	78	510	< 10	< 2.0	< 2.0	< 1.9	< 2.3	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	20*	20*	< 10	< 0.20	**3.0**	< 0.19	< 0.23	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<9.9	<9.4
Phenanthrene	µg/L	470	3,100	< 10	< 0.20	< 0.20	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--
Phenol	µg/L	9,390	61,000	< 10	< 0.99	< 1.0	< 0.96	< 1.1	--	--	--	--	--	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	< 10	< 0.20	**0.36**	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--
Laboratory Results - Inorganic Constituents																		
Antimony	µg/L	6.3	40	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	50*	50*	< 50	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	2,000	7,200	**54.5**	**44**	**44**	**59**	**41**	**43**	**42**	**53**	**48**	**47**	--	--	--	**41**	**57**
Beryllium	µg/L	31	200	< 10	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10	< 10
Copper	µg/L	630	4,100	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	< 20	< 20
Lead	µg/L	15*	15*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10	< 10
Nickel	µg/L	100	2,000	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	--	--	--	< 40	< 40
Zinc	µg/L	4,700	31,000	< 20	< 20	**21**	**28**	< 20	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	2*	2*	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--	--	--	--	--
Total Cyanide	µg/L	310	2,000	< 10	**10**	< 10	**15**	**21**	< 10	--	--	--	< 10	--	--	--	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-205																					MW-206
				02/21/18	08/16/17	02/22/17	08/24/16	04/27/15	08/06/13	02/07/13	11/07/12	08/07/12	05/17/12	02/14/12	11/15/11	08/10/11	05/03/11	02/23/11	02/11 DUP	11/09/10	11/10 DUP	08/10/10	08/10 DUP	05/10/10	02/23/10	02/11/13
Field Groundwater Quality Parameters																									
pH	SU	N/A	N/A	6.08	6.36	6.37	5.80	6.45	8.08	6.32	6.28	6.17	6.74	6.16	6.34	6.18	6.08	6.39	6.39	6.24	6.24	4.16	4.16	6.25	6.37	5.8
Specific Conductance	µS/cm	N/A	N/A	313.9	312.69	289.0	65.3	272	293	244	276	297	295	251	293	289	323	273	273	314	314	328	328	314	339	521
Temperature	°Celsius	N/A	N/A	26.10	32.50	22.40	31.13	20.23	24.72	18.09	20.72	24.17	22.74	19.10	22.57	23.92	20.23	19.7	19.7	22.24	22.24	23.68	23.68	19.18	17.18	19.01
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	0.11	0.41	0.91	0.14	1.0	0.06	1.29	1.35	2.0	0.34	2.05	0.22	0.28	0.17	0.32	0.32	0.25	0.25	0.27	0.27	0.73	3.77	0.24
ORP	mV	N/A	N/A	-67.87	-80.98	-69.80	5.8	-62.7	-94.1	-27.1	-43.5	7.6	-66.6	-29.9	-100.0	146.2	-102.1	-105.6	-105.6	-1.0	-1.0	79.5	79.5	-102.8	-45.6	-3.1
Turbidity	NTU	N/A	N/A	2.80	1.14	5.50	12.70	0.56	1.96	5.81	0.95	1.59	3.58	3.11	7.26	2.02	0.89	2.43	2.43	1.18	1.18	0.65	0.65	2.97	3.61	32.9
Laboratory Results - Natural Attenuation Parameters																									
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	< 0.25	--	--	--	--	--	< 0.050	--	--	--	< 0.050	--	--	--	< 0.050	0.07	--	--	--	--	--	< 0.050	< 0.050
Sulfate	mg/L	N/A	N/A	14	--	--	--	--	--	12	--	--	--	7.2	--	--	--	< 5.0	< 5.0	--	--	--	--	--	< 5.0	150
Sulfide	mg/L	N/A	N/A	< 2.00	--	--	--	--	--	< 1.0	--	--	--	< 1.0	--	--	--	< 1.0	< 1.0	--	--	--	--	--	< 1.0	< 1.0
Ferrous Iron	mg/L	N/A	N/A	7.1	--	--	--	--	--	17 HF	--	--	--	21 HF	--	--	--	6.1 HF	5.7 HF	--	--	--	--	--	23	14 HF
Total Iron	mg/L	N/A	N/A	28.7	--	--	--	--	--	20	--	--	--	24	--	--	--	26	22	--	--	--	--	--	30	15
Carbon Dioxide	mg/L	N/A	N/A	92	--	--	--	--	--	86	--	--	--	1.8	--	--	--	1.1	1.1	--	--	--	--	--	1.3	150
Methane	mg/L	N/A	N/A	0.13	--	--	--	--	--	22	--	--	--	42	--	--	--	55	62	--	--	--	--	--	150	7.1
Dissolved Nitrogen	mg/L	N/A	N/A	17	--	--	--	--	--	--	--	--	--	6.5	--	--	--	4.3	4.5	--	--	--	--	--	3.3	--
Dissolved Oxygen	mg/L	N/A	N/A	1.6	--	--	--	--	--	5.0	--	--	--	1.9	--	--	--	1.3	1.4	--	--	--	--	--	0.98	6.6
Laboratory Results - Organic Constituents																									
Volatile Organic Compounds																									
Benzene	µg/L	5*	9	**31**	**5.7**	**35**	< 5.0	**66**	**53**	**5.8**	**24**	**16**	**42**	**26**	**62**	**350**	**37**	**19**	**55**	**580**	**33**	**33**	**33**	**63**	**91**	< 1.0
Carbon Disulfide	µg/L	329	1,700	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	--	--	--	--	--	--	--	--	--	--	--	--	< 2.0
Ethylbenzene	µg/L	700*	2,300	**34**	< 5.0	**50**	**7.0**	**150**	**130**	**4.5**	**32**	**18**	**75**	**29**	**34**	**230**	**66**	**67**	**120**	--	--	--	--	--	**130**	< 1.0
Toluene	µg/L	1,000*	1,100	< 5.0	< 5.0	**5.5**	< 5.0	**13**	**11**	< 1.0	**1.5**	**1.0**	**8.8**	< 5.0	< 5.0	**41**	**8.1**	**8.9**	**15**	--	--	--	--	--	**17**	< 1.0
Total Xylenes	µg/L	31,000	200,000	**28**	< 5.0	**36**	< 5.0	**100**	**98**	**7.2**	**15**	**11**	**57**	**29**	**18**	**240**	**42**	**51**	**99**	--	--	--	--	--	**100**	< 2.0
Semivolatile Organic Compounds																									
Acenaphthene	µg/L	2,000*	6,100	**32**	**17**	**25**	**9.1**	**72**	**55**	**36**	**47**	**34**	**49**	--	--	--	--	--	--	--	--	--	--	--	--	< 0.20
Acenaphthylene	µg/L	470	3,100	**2.5**	**1.6**	**3.0**	<1.0	< 10	< 10	< 0.19	< 0.23	**4.0**	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	< 0.20
Anthracene	µg/L	4,700	31,000	**0.97**	**0.71**	**1.3**	**0.62**	< 10	< 10	**1.3**	**2.1**	**2.1**	**2.5**	--	--	--	--	--	--	--	--	--	--	--	--	< 0.20
Benzo[a]anthracene	µg/L	1.17	3.92	**0.15**	**0.11**	**0.11**	**0.12**	**0.20**	< 0.20	**0.19**	< 0.23	< 0.21	**0.28**	--	--	--	--	--	--	--	--	--	--	--	--	< 0.20
Benzo[a]pyrene	µg/L	0.2*	0.39	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.23	< 0.21	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	< 0.20
Benzo[b]fluoranthene	µg/L	1.17	3.92	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.23	< 0.21	**0.22**	--	--	--	--	--	--	--	--	--	--	--	--	< 0.20
Benzo[g,h,i]perylene	µg/L	10	10	< 0.10	< 0.10	< 0.10	< 0.10	< 10	< 10	< 0.19	< 0.23	< 0.21	**0.22**	--	--	--	--	--	--	--	--	--	--	--	--	< 0.20
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 0.050	< 0.050	< 0.050	< 0.050	< 10	< 10	< 0.19	< 0.23	< 0.21	**0.21**	--	--	--	--	--	--	--	--	--	--	--	--	< 0.20
Chrysene	µg/L	117	392	**0.20**	**0.11**	**0.12**	**0.11**	< 10	< 10	**0.26**	< 0.23	**0.22**	**0.31**	--	--	--	--	--	--	--	--	--	--	--	--	< 0.20
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.23	< 0.21	**0.22**	--	--	--	--	--	--	--	--	--	--	--	--	< 0.20
2,4-Dimehylphenol	µg/L	700*	700*	< 10	< 10	< 10	< 10	< 10	< 10	< 1.9	< 2.3	< 2.1	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	< 2.0
Fluoranthene	µg/L	1,000*	4,100	**2.0**	**1.6**	**1.7**	**1.1**	< 10	< 10	**2.9**	**3.6**	**3.6**	**3.0**	--	--	--	--	--	--	--	--	--	--	--	--	< 0.20
Fluorene	µg/L	1,000*	4,100	**13**	**8.3**	**10**	**4.6**	**32**	**21**	**18**	**23**	**21**	**25**	--	--	--	--	--	--	--	--	--	--	--	--	< 0.20
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.23	< 0.21	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	< 0.20
2-Methylphenol	µg/L	780	5,100	< 10	< 10	< 10	< 10	< 10	< 10	< 1.9	< 2.3	< 2.1	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	< 2.0
3 & 4 Methylphenol	µg/L	78	510	< 10	< 10	< 10	< 10	< 10	< 10	< 1.9	< 2.3	< 2.1	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	< 2.0
Naphthalene	µg/L	20*	20*	**38**	**1.1**	**46**	**10**	**280**	**160**	**19**	**55**	**28**	**150**	**130**	**79**	**940**	**140**	**580**	**330**	**120**	**100**	**63**	**63**	**270**	**160**	< 0.20
Phenanthrene	µg/L	470	3,100	**3.7**	**1.4**	**5.9**	**2.1**	**29**	**17**	**3.7**	**9.4**	**5.8**	**14**	--	--	--	--	--	--	--	--	--	--	--	--	< 0.20
Phenol	µg/L	9,390	61,000	< 10	< 10	< 10	< 10	< 10	< 10	1.0	< 1.1	< 1.0	< 1.0	--	--	--	--	--	--	--	--	--	--	--	--	< 1.0
Pyrene	µg/L	1,000*	3,100	**2.7**	**2.0**	**1.8**	**1.2**	< 10	< 10	**4.1**	**3.8**	**4.1**	**4.3**	--	--	--	--	--	--	--	--	--	--	--	--	< 0.20
Laboratory Results - Inorganic Constituents																									
Antimony	µg/L	6.3	40	< 20	--	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--	< 20
Arsenic	µg/L	50*	50*	< 50	--	--	< 50	< 50	< 50	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--	< 20
Barium	µg/L	2,000	7,200	**94.1**	--	--	**21.9**	**90.8**	**91.5**	**51**	**64**	**58**	**68**	**63**	**87**	**190**	**71**	**82**	**64**	--	--	--	--	--	**110**	29.0
Beryllium	µg/L	31	200	< 10	--	--	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--	--	--	--	--	--	--	--	< 4.0
Cadmium	µg/L	7.8	51	< 5.0	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--	< 5.0
Chromium	µg/L	100	310	< 10	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	--	--	< 10	< 10
Copper	µg/L	630	4,100	< 10	--	--	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	< 20	< 20
Lead	µg/L	15*	15*	< 10	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	--	--	< 10	< 10
Nickel	µg/L	100	2,000	< 20	--	--	< 20	< 20	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	--	--	--	--	--	< 40	< 40
Zinc	µg/L	4,700	31,000	**20.3**	--	--	**32.3**	**242**	< 20.0	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--	< 20
Mercury	µg/L	2*	2*	< 0.20	--	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	< 0.20
Total Cyanide	µg/L	310	2,000	< 10	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10	< 10	--	--	--	--	--	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Alluvial Groundwater Analytical Data
November 2001 through August 2017
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-400							MW-401	
				8/16/2017	2/23/2017	DUP-3	8/24/2016	8/16 DUP	4/6/2016	04/29/15	02/24/17	08/24/16
oundwater Quality Parameters												
pH	SU	N/A	N/A	5.22	5.41		5.53		5.54	5.90	6.05	5.73
Specific Conductance	µS/cm	N/A	N/A	877.35	806.5		817.2		1000	520	339.9	201.2
Temperature	°Celsius	N/A	N/A	27.26	21.88		30.62		21.48	16.72	21.43	25.01
Dissolved Oxygen (YSI)	mg/L	N/A	N/A	0.14	0.24		3.81		0.24	2.71	0.88	0.27
ORP	mV	N/A	N/A	150.00	148.1		151.5		119.7	-7.1	61.3	48.4
Turbidity	NTU	N/A	N/A	8.62	3.12		1.38		4.37	9.2	9.1	8.19
Laboratory Results - Natural Attenuation Parameters												
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--
Sulfide	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--
Total Iron	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--
Methane	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--
Laboratory Results - Organic Constituents												
Volatile Organic Compounds												
Benzene	µg/L	5*	9	<5.0	<5.0	<5.0	<5.0	<5.0	**11**	< 5.0	<5.0	<5.0
Carbon Disulfide	µg/L	329	1,700	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	<5.0	<5.0
Ethylbenzene	µg/L	700*	2,300	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	<5.0	<5.0
Toluene	µg/L	1,000*	1,100	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	<5.0	<5.0
Total Xylenes	µg/L	31,000	200,000	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	<5.0	<5.0
Semivolatile Organic Compounds												
Acenaphthene	µg/L	2,000*	6,100	**0.91**	<0.50	<0.50	<0.50	**0.52**	**1.0**	< 10	**0.83**	<0.50
Acenaphthylene	µg/L	470	3,100	<1.0	<1.0	<1.0	<1.0	<1.0	**1.30**	< 10	<1.0	<1.0
Anthracene	µg/L	4,700	31,000	**0.12**	**0.11**	**0.12**	0.14	**0.17**	**0.15**	< 10	**0.060**	**0.093**
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	<0.050	<0.050	<0.050	<0.050	< 0.050	<0.050	<0.050	<0.050
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	<0.050	<0.050	<0.050	<0.050	< 0.050	< 0.050	<0.050	<0.050
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	<0.10	<0.10	<0.10	< 0.10	< 0.10	<0.10	<0.10
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	<0.10	<0.10	<0.10	< 0.10	< 10	<0.10	<0.10
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	<0.050	<0.050	<0.050	< 0.050	< 10	<0.050	<0.050
Chrysene	µg/L	117	392	<0.050	<0.050	<0.050	<0.050	<0.050	< 0.050	< 10	<0.050	<0.050
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	<0.10	<0.10	<0.10	< 0.10	< 0.10	<0.10	<0.10
2,4-Dimehylphenol	µg/L	700*	700*	<10	<10	<10	<10	<10	< 10	< 10	<10	<10
Fluoranthene	µg/L	1,000*	4,100	<0.10	**0.10**	<0.10	<0.10	<0.10	**0.11**	< 10	<0.10	<0.10
Fluorene	µg/L	1,000*	4,100	**0.27**	<0.10	<0.10	**0.19**	0.21	**0.28**	< 10	<0.10	<0.10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	<0.050	<0.050	<0.050	<0.050	< 0.050	< 0.050	<0.050	<0.050
2-Methylphenol	µg/L	780	5,100	<10	<10	<10	<10	<10	< 10	< 10	<10	<10
3 & 4 Methylphenol	µg/L	78	510	<10	<10	<10	<10	<10	< 10	< 10	<10	<10
Naphthalene	µg/L	20*	20*	<0.50	**0.56**	**0.55**	<0.50	<0.50	**1.70**	< 10	<0.50	<0.50
Phenanthrene	µg/L	470	3,100	<0.050	<0.050	<0.050	<0.050	<0.050	< 0.050	< 10	<0.050	<0.050
Phenol	µg/L	9,390	61,000	<10	<10	<10	<10	<10	< 10	< 10	<10	<10
Pyrene	µg/L	1,000*	3,100	**0.15**	**0.14**	**0.14**	**0.13**	**0.13**	**0.14**	< 10	**1.0**	**1.0**
Inorganic Constituents												
Antimony	µg/L	6.3	40	--	--	--	< 20.0	< 20.0	< 20.0	< 20.0	--	< 20.0
Arsenic	µg/L	50*	50*	--	--	--	< 50.0	< 50.0	< 50.0	< 50.0	--	< 50.0
Barium	µg/L	2,000	7,200	--	--	--	**68**	**67.6**	**67.6**	**38.1**	--	**122**
Beryllium	µg/L	31	200	--	--	--	< 10.0	< 10.0	< 10.0	< 10.0	--	< 10.0
Cadmium	µg/L	7.8	51	--	--	--	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5.0
Chromium	µg/L	100	310	--	--	--	< 10.0	< 10.0	< 10.0	< 10.0	--	< 10.0
Copper	µg/L	630	4,100	--	--	--	< 10.0	< 10.0	< 10.0	< 10.0	--	< 10.0
Lead	µg/L	15*	15*	--	--	--	< 10.0	< 10.0	< 10.0	< 10.0	--	< 10.0
Nickel	µg/L	100	2,000	--	--	--	< 20.0	< 20.0	< 20.0	< 20.0	--	< 20.0
Zinc	µg/L	4,700	31,000	--	--	--	**145**	**147**	**88.7**	< 20.0	--	**166**
Mercury	µg/L	2*	2*	--	--	--	<0.20	<0.20	< 0.20	< 0.20	--	<0.20
Total Cyanide	µg/L	310	2,000	--	--	--	**288**	**167**	< 10	**9.9**	--	<10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Stamdard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-08D		
				04/27/15	08/06/14	12/07/06
Field Groundwater Quality Parameters						
pH	SU	N/A	N/A	5.61	7.22	--
Specific Conductance	µm/cm	N/A	N/A	336	338	--
Temperature	°Celsius	N/A	N/A	21.31	22.45	--
Dissolved Oxygen	mg/L	N/A	N/A	0.49	0.95	--
ORP	mV	N/A	N/A	-66.2	-105.7	--
Turbidity	NTU	N/A	N/A	14.8	2.24	--
Laboratory Results - Natural Attenuation Parameters						
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--
Sulfate	mg/L	N/A	N/A	--	--	--
Sulfide	mg/L	N/A	N/A	--	--	--
Ferrous Iron	mg/L	N/A	N/A	--	--	--
Total Iron	mg/L	N/A	N/A	--	--	--
Carbon Dioxide	mg/L	N/A	N/A	--	--	--
Methane	mg/L	N/A	N/A	--	--	--
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--
Laboratory Results - Organic Constituents						
Volatile Organic Compounds						
Benzene	µg/L	5*	9	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/L	700*	2,300	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	< 5.0	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds						
Acenaphthene	µg/L	2,000*	6,100	< 10	< 10	< 10
Acenaphthylene	µg/L	470	3,100	< 10	< 10	< 10
Anthracene	µg/L	4,700	31,000	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	< 0.050	< 0.050	< 10
Benzo[a]pyrene	µg/L	0.2*	0.39	< 0.050	< 0.050	< 10
Benzo[b]fluoranthene	µg/L	1.17	3.92	< 0.10	< 0.10	< 10
Benzo[g,h,i]perylene	µg/L	10	10	< 10	< 10	< 10
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 10	< 10	< 10
Chrysene	µg/L	117	392	< 10	< 10	< 10
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 0.10	< 0.10	< 10
2,4-Dimehylphenol	µg/L	700*	700*	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	< 10	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 0.050	< 0.050	< 10
2-Methylphenol	µg/L	780	5,100	< 10	< 10	--
3 & 4 Methylphenol	µg/L	78	510	< 10	< 10	--
Naphthalene	µg/L	20*	20*	< 10	< 10	< 10
Phenanthrene	µg/L	470	3,100	< 10	< 10	< 10
Phenol	µg/L	9,390	61,000	< 10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	< 10	< 10	< 10
Inorganic Constituents						
Antimony	µg/L	6.3	40	< 20	< 20	--
Arsenic	µg/L	50*	50*	< 50	< 50	--
Barium	µg/L	2,000	7,200	**902**	**979**	--
Beryllium	µg/L	31	200	< 10	< 10	--
Cadmium	µg/L	7.8	51	< 5.0	< 5.0	--
Chromium	µg/L	100	310	< 10	< 10	--
Copper	µg/L	630	4,100	< 10	< 10	--
Lead	µg/L	15*	15*	< 10	< 10	--
Nickel	µg/L	100	2,000	< 20	< 20	--
Zinc	µg/L	4,700	31,000	< 20	< 20	--
Mercury	µg/L	2*	2*	< 0.20	< 0.20	--
Total Cyanide	µg/L	310	2000	< 10	**12**	--

Notes:
Analyte was detected above laboratory detection limi
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemica
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-09D																												
				08/05/14	8/05 DUP	02/19/14	08/07/13	02/07/13	11/07/12	08/09/12	05/16/12	02/07/12	11/16/11	11/16 DUP	08/11/11	08/11 DUP	05/05/11	02/18/11	11/09/10	08/10/10	05/10/10	02/23/10	02/10 DUP	08/13/09	06/08/06	03/10/06	12/22/05	12/05 DUP	09/29/05	02/28/05	02/05 DUP	12/16/04
Field Groundwater Quality Parameters																																
pH	SU	N/A	N/A	6.80		6.29	7.31	6.11	6.22	6.37	6.65	6.67	6.58	6.58	6.78	6.78	6.86	6.31	6.41	6.17	6.17	7.18	7.18	7.12	6.82	6.58	6.70	6.70	7.06	8.85	8.85	8.85
Specific Conductance	µm/cm	N/A	N/A	364		257	419	243	225	400	273	374	385	385	433	433	425	243	270	281	278	404	404	362	320	285	277	277	308	355	355	326
Temperature	°Celsius	N/A	N/A	23.63		20.80	23.28	14.62	19.58	25.52	25.18	18.94	23.14	23.14	24.60	24.60	21.24	22.43	24.41	24.69	21.61	20.41	20.41	24.67	22.62	19.72	20.77	20.77	21.94	19.84	19.84	21.20
Dissolved Oxygen	mg/L	N/A	N/A	0.34		0.31	0.15	0.17	1.65	0.84	1.13	1.32	0.24	0.24	0.70	0.70	0.32	0.12	0.22	0.33	1.16	1.28	1.28	4.31	0.22	0.31	0.46	0.46	0.20	1.53	1.53	1.69
ORP	mV	N/A	N/A	-30.4		78.3	-91.6	-82.4	41.8	-35.2	-27.9	-77.6	-88.5	-88.5	150.5	150.5	-104.6	-73.1	-88.3	-60.8	-36.9	-120.6	-120.6	-47.4	-127.8	-105.0	-96.4	-96.4	-70.1	-65.8	-65.8	-47.5
Turbidity	NTU	N/A	N/A	1.37		0.76	0.39	0.69	2.51	2.97	2.45	0.54	0.53	0.53	8.82	8.82	5.26	0.63	0.65	0.27	0.71	1.23	1.23	0	0.79	1.2	2.69	2.69	3.14	11.7	11.7	9.19
Laboratory Results - Natural Attenuation Parameters																																
Nitrogen, Ammonia (as N)	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.20	< 0.20	< 0.20
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	< 0.25	--	< 0.050	--	--	--	< 0.050	--	--	--	--	--	< 0.050	--	--	--	< 0.050	< 0.050	< 0.050	--	--	--	--	--	< 0.0500	< 0.500	< 0.0500
Sulfate	mg/L	N/A	N/A	--	--	**2.1**	--	< 5.0	--	--	--	< 5.0	--	--	--	--	--	< 5.0	--	--	--	< 5.0	< 5.0	< 5.0	--	--	--	--	--	**1.32**	**4.42**	**3.78**
Sulfide	mg/L	N/A	N/A	--	--	< 1.0	--	< 1.0	--	--	--	**1.1**	--	--	--	--	--	< 1.0	--	--	--	< 1.0	< 1.0	< 1.0	--	--	--	--	--	< 1.0	< 1.0	< 1.0
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.0868**	**0.0825**	**0.0426**
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.141**	**0.142**	**0.138**
Ferrous Iron	mg/L	N/A	N/A	--	--	< 0.100	--	<0.100	--	--	--	1.0 HF	--	--	--	--	--	0.55 HF	--	--	--	**0.17**	< 0.010	**0.34**	--	--	--	--	--	**0.4**	**0.4**	**0.7**
Total Iron	mg/L	N/A	N/A	--	--	**0.211**	--	**0.211**	--	--	--	**2.7**	--	--	--	--	--	**1.1**	--	--	--	**1.1**	**1.2**	**1.5**	--	--	--	--	--	**1.65**	**1.59**	**2.40**
Carbon Dioxide	mg/L	N/A	N/A	--	--	**45**	--	**45**	--	--	--	**0.63**	--	--	--	--	--	**0.53**	--	--	--	**0.26**	**0.24**	**0.2**	--	--	--	--	--	**0.6**	**2.6**	**0.52**
Methane	mg/L	N/A	N/A	--	--	**15**	--	**15**	--	--	--	**1500**	--	--	--	--	--	**570**	--	--	--	**36**	<0.19	<0.19	--	--	--	--	--	**350**	**340**	**600**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	**19**	--	**19**	--	--	--	**5.1**	--	--	--	--	--	**3.8**	--	--	--	**3.7**	**4.3**	**4.4**	--	--	--	--	--	**22**	**20**	**20**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	**4.7**	--	**4.7**	--	--	--	**1.6**	--	--	--	--	--	**1.3**	--	--	--	**1.1**	**1.3**	**1.5**	--	--	--	--	--	**4.8**	**2.6**	**1.4**
Laboratory Results - Organic Constituents																																
Volatile Organic Compounds																																
Benzene	µg/L	5*	9	**77**	**86**	< 5.0	**350**	< 1.0	< 1.0	< 1.0	< 5.0	**16**	**44**	**38**	**91**	**93**	**13**	**5.6**	**13**	**7.5**	**7.0**	**94**	**88**	**23**	**59**	**58**	**45**	**44**	**120**	**550**	**550**	**560**
Carbon Disulfide	µg/L	329	1,700	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	**7.7**	< 5.0	**6.6**	**7.5**	**6.1**	< 5.0	< 5.0	**5.4**	**6.3**	--	--	--	**16**	**14**	**10**	**11**	**7.3**	**9.6**	**9.5**	**11**	**5.6**	**5.7**	**16**
Toluene	µg/L	1,000*	1,100	< 5.0	< 5.0	< 5.0	< 5.0	**11**	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	< 5.0	< 5.0	< 5.0	< 5.0	**5.0**	**8.4**	**8.2**	**14**	**44**	**45**	**98**
Semivolatile Organic Compounds																																
Acenaphthene	µg/L	2,000*	6,100	< 10	< 10	< 10	< 10	**0.87**	< 0.19	**0.71**	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10
Acenaphthylene	µg/L	470	3,100	< 10	< 10	< 10	< 10	< 0.26	< 0.19	< 0.19	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10
Anthracene	µg/L	4,700	31,000	< 10	< 10	< 10	< 10	< 0.26	< 0.19	< 0.19	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	< 0.050	< 0.050	< 0.050	< 0.20	< 0.26	< 0.19	< 0.19	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	< 0.050	< 0.050	< 0.050	< 0.20	< 0.26	< 0.19	< 0.19	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	< 0.10	< 0.10	< 0.10	< 0.20	< 0.26	< 0.19	< 0.19	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	< 10	< 10	< 10	< 10	< 0.26	< 0.19	< 0.19	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 10	< 10	< 10	< 10	< 0.26	< 0.19	< 0.19	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	< 10	< 10	< 10	< 10	< 0.26	< 0.19	< 0.19	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 0.10	< 0.10	< 0.10	< 0.20	< 0.26	< 0.19	< 0.19	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimehylphenol	µg/L	700*	700*	< 10	< 10	< 10	< 10	< 2.6	< 1.9	< 1.9	**4.3**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**48**	**44**	**48**
Fluoranthene	µg/L	1,000*	4,100	< 10	< 10	< 10	< 10	< 0.26	< 0.19	< 0.19	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	< 10	< 10	< 10	< 10	< 0.26	< 0.19	0.23	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 0.050	< 0.050	< 0.050	< 0.20	< 0.26	< 0.19	< 0.19	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	< 10	< 10	< 10	< 10	< 2.6	< 1.9	< 1.9	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	< 10	< 10	< 10	< 10	< 2.6	< 1.9	< 1.9	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	**130**	**120**	< 10	**96**	**2.2**	< 0.19	**29**	**0.21**	**82**	**120**	**80**	**58**	**58**	**11**	**41**	**6.0**	< 10	**80**	**58**	**54**	**16**	**33**	< 10	< 10	**13**	< 10	**120**	**100**	**140**
Phenanthrene	µg/L	470	3,100	< 10	< 10	< 10	< 10	< 0.26	< 0.19	< 0.19	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10
Phenol	µg/L	9,390	61,000	< 10	< 10	< 10	< 10	< 1.3	< 0.97	< 0.95	< 1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	< 10	< 10	< 10	< 10	< 0.26	< 0.19	< 0.19	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10
Inorganic Constituents																																
Antimony	µg/L	6.3	40	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 40	< 40	< 40
Arsenic	µg/L	50*	50*	< 50	< 50	< 50	< 50	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	**3,050**	**3,080**	**2,290**	**3,250**	**2,300**	**2,200**	**2,900**	**2,300**	**3,000**	**3,100**	**3,100**	**2,600**	**2,600**	**2,700**	**2,000**	--	--	--	**2,100**	**2,100**	**2,100**	**1,650**	**1,580**	**1,480**	**1,470**	**1,380**	**1,100**	**1,110**	**1,080**
Beryllium	µg/L	31	200	< 10	< 10	< 10	< 10	**7.4**	< 4.0	**5.0**	**5.1**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	< 10	< 10	< 10	< 10	< 20	**21**	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	< 20	< 20	< 20	< 10.0	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	< 20	< 20	< 20	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	--	--	--	< 40	< 40	< 40	< 20.0	< 20.0	< 20.0	< 20.0	< 20	< 20	< 20	< 20
Zinc	µg/L	4,700	31,000	< 20	< 20	< 20	< 20	< 20	**23**	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 20	< 20	< 20
Mercury	µg/L	2*	2*	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.5	< 0.5	< 0.5
Total Cyanide	µg/L	310	2,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	--	--	**16**	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-12DRR											
				08/15/17	02/24/17	08/22/16	04/05/16	08/13/15	08/15 DUP	02/16/15	08/05/14	08/14 DUP	02/18/14	02/14 DUP	08/06/13
Field Groundwater Quality Parameters															
pH	SU	N/A	N/A	6.43	6.42	6.34	6.48	6.36		6.54	6.41		6.68		6.33
Specific Conductance	µm/cm	N/A	N/A	513.86	493.6	399.0	540	530		438	504		445		521
Temperature	°Celsius	N/A	N/A	22.60	21.91	26.70	22.43	25.82		17.65	23.69		20.79		25.49
Dissolved Oxygen	mg/L	N/A	N/A	0.19	0.18	0.16	0.37	0.32		0.55	0.38		0.22		0.58
ORP	mV	N/A	N/A	-2.00	1.00	-107.9	-108.91	-170.70		-60.0	-112.4		-56.1		-94.7
Turbidity	NTU	N/A	N/A	4.01	0.74	0.5	1.84	6.65		4.20	0.52		1.45		9.41
Laboratory Results - Natural Attenuation Parameters															
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--	--	--	--	< 0.25	--	--	< 0.25	< 0.25	--
Sulfate	mg/L	N/A	N/A	--	--	--	--	--	--	1.4	--	--	1.1	< 1.0	--
Sulfide	mg/L	N/A	N/A	--	--	--	--	--	--	< 1.0	--	--	< 1.0	< 1.0	--
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	--	--	3.98	--	--	2.1	1.92	--
Total Iron	mg/L	N/A	N/A	--	--	--	--	--	--	5.19	--	--	5.53	5.61	--
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	--	--	94	--	--	85	84	--
Carbon Monoxide	mg/L	N/A	N/A	--	--	--	--	--	--	< 1.0	--	--	< 1.0	< 1.0	--
Methane	mg/L	N/A	N/A	--	--	--	--	--	--	920	--	--	840	780	--
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	--	21	--	--	20	19	--
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	--	--	2.7	--	--	2.6	2.0	--
Laboratory Results - Organic Constituents															
Volatile Organic Compounds															
Benzene	µg/L	5.0*	9.0	**230**	**470**	**220**	**96**	**250**	**180**	**280**	**340**	**370**	**280**	**290**	**460**
Carbon Disulfide	µg/L	329	1,700	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/L	700*	2,300	**110**	**150**	**76**	**36**	**110**	**77**	**100**	**130**	**160**	**120**	**130**	**180**
Toluene	µg/L	1,000*	1,100	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	**5.4**	**5.9**	**6.9**	**7.0**	**9.8**
Total Xylenes	µg/L	31,000	200,000	**83**	**140**	**48**	**22**	**60**	**43**	**100**	**56**	**65**	**94**	**98**	**100**
Semivolatile Organic Compounds															
Acenaphthene	µg/L	2,000*	6,100	**47**	**36**	**10**	< 50	**39**	**31**	< 10	**39**	**33**	**35**	**35**	**30**
Acenaphthylene	µg/L	470	3,100	**6.9**	**6.5**	<1.0	**8.9**	**9.6**	**7.5**	< 10	**16**	**14**	**12**	**12**	**14**
Anthracene	µg/L	4,700	31, 000	**2.7**	**4.5**	**0.65**	**1.7**	**3.7**	**3.0**	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	**0.18**	**0.15**	**0.16**	**0.140**	**0.23**	**0.30**	**0.079**	**0.17**	**0.14**	**0.29**	**0.27**	< 0.20
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	<0.050	<0.050	< 0.050	< 0.050	**0.083**	< 0.050	< 0.050	< 0.050	**0.087**	< 0.050	< 0.20
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	<0.10	< 0.10	< 0.10	**0.11**	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	<0.10	< 0.10	< 0.10	**0.12**	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	<0.050	< 0.050	< 0.050	**0.10**	< 10	< 10	< 10	< 10	< 10	< 10
Chrysene	µg/L	117	392	**0.15**	**0.12**	0.13	**0.12**	0.14	**0.22**	< 10	< 10	< 10	< 10	< 10	< 10
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	<0.10	< 0.10	< 0.10	**0.11**	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20
2,4-Dimethylphenol	µg/L	700*	700*	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	**5.4**	**5.0**	**3.6**	**4.6**	**6.3**	**5.8**	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	**51**	**32**	**14**	**31**	**36**	**28**	**31**	**48**	**42**	**40**	**41**	**35**
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	<0.050	<0.050	< 0.050	< 0.050	**0.11**	< 0.050	< 0.050	< 0.050	**0.087**	< 0.050	< 0.20
2-Methylphenol	µg/L	780	5,100	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	**820**	**1600**	**8.9**	**260**	**550**	**550**	**770**	**1,000**	**870**	**530**	**570**	**1,400**
Phenanthrene	µg/L	470	3,100	**16**	**17**	**0.66**	**7.6**	**18**	**13**	**13**	**25**	**23**	**14**	**17**	**28**
Phenol	µg/L	9,390	61,000	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	**6.8**	**5.3**	**3.7**	**5.2**	**7.1**	**6.2**	< 10	< 10	< 10	< 10	< 10	< 10
Laboratory Results - Inorganic Constituents															
Antimony	µg/L	6.3	40	--	--	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0
Arsenic	µg/L	50*	50*	--	--	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
Barium	µg/L	2,000	7,200	--	--	**1100**	**1,390**	**1,680**	**1,620**	**1,550**	**1,610**	**1,630**	**1,420**	**1,430**	**1,530**
Beryllium	µg/L	31	200	--	--	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Cadmium	µg/L	7.8	51	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium	µg/L	100	310	--	--	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Copper	µg/L	630	4,100	--	--	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Lead	µg/L	15*	15*	--	--	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Nickel	µg/L	100	2,000	--	--	< 20.0	**42.1**	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0
Zinc	µg/L	4,700	31,000	--	--	< 20.0	< 20.0	< 20.0	< 20.0	**42.8**	< 20.0	< 20.0	< 20.0	< 20.0	**43.9**
Mercury	µg/L	2*	2*	--	--	<0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Total Cyanide	µg/L	310	2,000	--	--	<10	**23**	**26**	**37**	**33**	**48**	**37**	**26**	**20**	**40**

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-12DR					MW-12D																			
				11/10/10	08/10/10	05/10/10	05/10 DUP	02/23/10	08/14/09	06/07/06	03/09/06	03/06 DUP	12/21/05	12/05 DUP	09/29/05	03/02/05	12/16/04	12/04 DUP	10/01/04	06/09/04	03/04/04	12/17/03	12/03 DUP	09/10/03	06/10/03	03/12/03	12/10/02	09/18/02	11/06/01
Field Groundwater Quality Parameters																												
pH	SU	N/A	N/A	12.24	12.31	12.69	12.69	12.13	7.24	8.11	7.41	7.41	6.99	6.99	6.62	6.55	6.45	6.45	6.68	6.90	6.97	6.53	6.53	7.01	7.07	6.73	6.58	6.82	6.80
Specific Conductance	µm/cm	N/A	N/A	1,327	1,922	1,851	18,510	2,398	376	831	664	664	798	798	760	1,242	1642	1642	1,569	406	440	672	672	288	295	400	393	400	376
Temperature	°Celsius	N/A	N/A	22.4	25.55	23.04	23.04	12.87	27.19	24.64	21.77	21.77	19.92	19.92	23.76	21.93	23.15	23.15	24.44	22.52	22.06	21.84	21.84	24.26	23.57	22.36	22.27	24.14	24.49
Dissolved Oxygen	mg/L	N/A	N/A	0.71	0.76	1.24	1.24	1.08	5.73	0.13	0.31	0.31	0.19	0.19	0.16	1.16	3.67	3.67	3.25	0.55	0.35	0.30	0.30	0.19	0.07	0.04	0.18	0.03	0.09
ORP	mV	N/A	N/A	-128.6	-54.2	-108.6	-108.6	-105.0	-85.0	-145.5	-55.9	-55.9	-72.2	-72.2	-76.5	-18.4	12.7	12.7	-2.4	-111.6	-164.0	-191	-191	-177	-156	-118.3	-99.6	-178.4	-135.2
Turbidity	NTU	N/A	N/A	6.24	0.65	5.52	5.52	0.62	3.32	4.60	2.8	2.8	0.00#	0.00#	1.29	4.34	4.51	4.51	2.3	3.14	5.63	--	--	11.0	5.1	0.9	4.3	10	31
Laboratory Results - Natural Attenuation Parameters																												
Nitrogen, Ammonia (as N)	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	**5.84**	**9.49**	**10.3**	**13.0**	**0.42**	**0.56**	**0.47**	**0.47**	**0.60**	**0.546**	**0.754**	**0.505**	**0.724**	**0.448**
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--	--	< 0.050	< 0.050	--	--	--	--	--	--	< 0.500	**0.0529**	**0.162**	**0.241**	< 0.5	< 0.250	< 0.0500	< 0.0500	< 0.0500	< 0.500	< 0.0500	< 0.050	< 0.050	**0.454**
Sulfate	mg/L	N/A	N/A	--	--	--	--	**290**	26	--	--	--	--	--	--	**302**	**352**	**486**	**187**	**2.19**	**2.70**	**3.73**	**4.16**	**8.82**	**3.06**	**5.81**	**5.10**	**4.08**	**4.28**
Sulfide	mg/L	N/A	N/A	--	--	--	--	< 1.0	< 1.0	--	--	--	--	--	--	< 1.0	< 1.0	< 1.0	**2.8**	< 1.0	< 1.0	**1.3**	**1.6**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.500**
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	**1.87**	**2.16**	**2.15**	**1.74**	**0.548**	**0.584**	**0.663**	**0.664**	**0.474**	**0.497**	**0.514**	**0.525**	**0.522**	**0.451**
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	**1.90**	**2.29**	**2.39**	**1.77**	**0.556**	**0.673**	**0.669**	**0.668**	**0.504**	**0.543**	**0.532**	**0.614**	**0.483**	**0.519**
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	< 0.010	**0.24**	--	--	--	--	--	--	**0.9**	< 0.1	< 0.1	< 0.1	**2.4**	**3.2**	**1.5**	**8.6**	**1.9**	**1.9**	**1.69**	**2.78**	**1.55**	**1.89**
Total Iron	mg/L	N/A	N/A	--	--	--	--	**0.14**	**2.8**	--	--	--	--	--	--	**6.45**	**6.01**	**6.29**	**2.58**	**2.13**	**3.83**	**2.78**	**2.77**	**2.41**	**2.66**	**1.72**	**4.18**	**1.75**	**2.67**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	< 0.050	**0.15**	--	--	--	--	--	--	**120**	**150**	**150**	**130**	**41**	< 0.6	**51**	**49**	**14**	**21**	**40**	**40**	**33**	**23**
Methane	mg/L	N/A	N/A	--	--	--	--	**47**	**40**	--	--	--	--	--	--	**360**	**360**	**350**	**470**	**2,600**	**120**	**2,900**	**3,000**	**150**	**2,000**	**3,300**	**2,600**	**3,000**	**380**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	**4**	**5**	--	--	--	--	--	--	**15**	**16**	**14**	**14**	**16**	**24**	**20**	**21**	**14**	**17**	**18**	**17**	**20**	**13**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	**1.5**	**1.8**	--	--	--	--	--	--	**1.3**	**4.3**	**3.3**	**12**	**0.46**	**2.7**	**1.1**	**1.1**	**0.66**	**0.63**	**0.66**	**4.9**	**7.1**	**0.78**
Laboratory Results - Organic Constituents																												
Volatile Organic Compounds																												
Benzene	µg/L	5.0*	9.0	**250**	**190**	**170**	**190**	**200**	**13**	**18**	**38**	**38**	**47**	**84**	**300**	**200**	**240**	**250**	**320**	**4,300**	**2,900**	**4,200**	**3,400**	**11**	**920**	**2,400**	**2,200**	**1,500**	**4,700**
Carbon Disulfide	µg/L	329	1,700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	--	--	--	--	**33**	**5.4**	**9.3**	**26**	**25**	**10**	**20**	**59**	**44**	**41**	**41**	**20**	**1,100**	**620**	**910**	**740**	< 5.0	**390**	**830**	**830**	**510**	**1,200**
Toluene	µg/L	1,000*	1,100	--	--	--	--	**130**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**6.8**	**5.0**	< 5.0	< 5.0	**48**	**< 250**	**24**	**68**	**72**	< 5.0	**6.0**	**14**	**19**	**20**	**11**
Total Xylenes	µg/L	31,000	200,000	--	--	--	--	**250**	< 5.0	< 5.0	**6.4**	**6.3**	**7.2**	**12**	**60**	**48**	**45**	**47**	**48**	**830**	**170**	**1,320**	**1,070**	< 5.0	**300**	**740**	**200**	**500**	**92**
Semivolatile Organic Compounds																												
Acenaphthene	µg/L	2,000*	6,100	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	**78**	**79**	**100**	**100**	**56**	**30**	< 100	**63**	**49**	< 10
Acenaphthylene	µg/L	470	3,100	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	**23**	**23**	**27**	**26**	**13**	< 10	< 100	**17**	**17**	**42**
Anthracene	µg/L	4,700	31, 000	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	**59**	**63**	**78**	**79**	**43**	**24**	< 100	**48**	**39**	**30**
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	**430**	**790**	**330**	**200**	**890**	**28**	**20**	**220**	**300**	**200**	**240**	**< 10**	**240**	**400**	**340**	< 10	**8,400**	**5,900**	**9,400**	**8,900**	**5,600**	**3,000**	**4,400**	**6,700**	**5,200**	**4,500**
Phenanthrene	µg/L	470	3,100	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	**62**	**70**	**80**	**83**	**33**	**21**	< 100	**50**	**40**	**23**
Phenol	µg/L	9,390	61,000	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	--	--	--
Pyrene	µg/L	1,000*	3,100	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10
Laboratory Results - Inorganic Constituents																												
Antimony	µg/L	6.3	40	--	--	--	--	--	--	--	--	--	--	--	--	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Arsenic	µg/L	50*	50*	--	--	--	--	--	--	--	--	--	--	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	--	--	--	--	**400**	**280**	**269**	**243**	**259**	**276**	**257**	**197**	**61.2**	**42.4**	**43.7**	**23.8**	**2,730**	**2,510**	**2,490**	**2,520**	**851**	**967**	**2,850**	**2,840**	**2,200**	**1,420**
Beryllium	µg/L	31	200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	--	--	--	--	**1,500**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	--	--	--	--	< 20	< 20	**160**	**680**	**76.3**	**73.9**	**58.7**	**261**	**159**	**325**	**337**	**574**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**11.4**	**46.7**	**47.9**	**31.9**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	--	--	--	< 40	**42**	**158**	**125**	**125**	**195**	**161**	**< 20**	**344**	**369**	**379**	**223**	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Zinc	µg/L	4,700	31,000	--	--	--	--	--	--	--	--	--	--	--	--	**648**	**824**	**857**	**693**	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Mercury	µg/L	2*	2*	--	--	--	--	--	--	--	--	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Cyanide	µg/L	310	2,000	--	--	--	--	**130**	**19**	**25**	**24**	**46**	**19**	**20**	**45**	**24**	**51**	**38**	**27**	**51**	**56**	**81**	**84**	**< 10**	**20**	**93**	**86**	**113**	**62**

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-12DD																
				02/23/17	04/06/16	02/16/15	08/05/14	02/19/14	08/07/13	02/06/13	11/07/12	08/09/12	05/16/12	02/09/12	11/16/11	08/11/11	05/04/11	05/11 DUP	02/17/11	11/10/10	08/10/10
Field Groundwater Quality Parameters																				
pH	SU	N/A	N/A	7.63	7.37	7.32	7.78	8.13	6.05	7.32	7.02	6.87	7.58	7.31	7.44	7.29	6.98	6.98	7.62	7.80	6.12
Specific Conductance	µm/cm	N/A	N/A	225.20	200	209	227	241	225	225	220	231	231	230	239	256	284	284	294	280	508
Temperature	°Celsius	N/A	N/A	22.45	23.01	18.44	24.35	24.24	23.72	19.70	21.02	22.89	22.09	18.16	23.11	23.56	23.02	23.02	23.55	23.00	26.84
Dissolved Oxygen	mg/L	N/A	N/A	0.34	0.85	0.81	0.34	0.26	1.08	2.23	0.50	1.12	1.29	0.56	0.43	0.28	0.97	0.97	0.30	1.05	19.74
ORP	mV	N/A	N/A	-117.00	-94.8	-53.0	-161.4	-172.8	-59.4	-19.4	-74.6	0.3	-90.2	-114.4	-103.4	174.0	-402.6	-402.6	-153.4	-4.4	-91.1
Turbidity	NTU	N/A	N/A	1.74	1.16	0.99	6.00	15.6	2.12	2.69	3.61	17.2	5.90	0.98	2.21	11.8	7.95	7.95	1.34	1.17	2.42
Laboratory Results - Natural Attenuation Parameters																				
Nitrogen, Ammonia (as N)	mg/L	N/A	N/A	--	--	--	--	--	--	< 0.050	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--	--	< 0.25	--	< 5.0	--	--	--	< 0.050	--	--	--	--	< 0.050	--	--
Sulfate	mg/L	N/A	N/A	--	--	--	--	**6.3**	--	**1.0**	--	--	--	**7.4**	--	--	--	--	**24**	--	--
Sulfide	mg/L	N/A	N/A	--	--	--	--	**1.6**	--	--	--	--	--	< 1.0	--	--	--	--	< 1.0	--	--
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	**0.258**	--	< 0.10 HF	--	--	--	< 0.10 HF	--	--	--	--	< 0.010	--	--
Total Iron	mg/L	N/A	N/A	--	--	--	--	**0.161**	--	2.7 J	--	--	--	**0.11**	--	--	--	--	**0.12**	--	--
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	< 5.0	--	< 1.0	--	--	--	**100**	--	--	--	--	**0.081**	--	--
Carbon Monoxide	mg/L	N/A	N/A	--	--	--	--	< 1.0	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	mg/L	N/A	N/A	--	--	--	--	**260**	--	**160**	--	--	--	< 0.58	--	--	--	--	**1.6**	--	--
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	**14**	--	--	--	--	--	**5000**	--	--	--	--	**4.8**	--	--
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	**1.4**	--	**6.8**	--	--	--	**1500**	--	--	--	--	**1.6**	--	--
Laboratory Results - Organic Constituents																				
Volatile Organic Compounds																				
Benzene	µg/L	5*	9	**35**	**15**	**44**	**140**	**130**	**8.0**	**150**	**29**	**41**	**35**	**71**	**81**	**25**	**15**	**27**	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 5.0	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	<5.0	< 5.0	**10**	**28**	**19**	< 5.0	**16**	**7.9**	**7.4**	**7.0**	**8.4**	**18**	< 5.0	< 5.0	< 5.0	< 5.0	--	--
Toluene	µg/L	1,000*	1,100	<5.0	< 5.0	< 5.0	**6**	**6**	< 5.0	**5.2**	**1.4**	**1.7**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--
Total Xylenes	µg/L	31,000	200,000	<5.0	< 5.0	**11**	**21**	**13**	< 5.0	**12**	**6.0**	**8.4**	8.4	**10**	**22**		< 5.0	< 5.0	< 5.0	--	--
Semivolatile Organic Compounds																				
Acenaphthene	µg/L	2,000*	6,100	**0.65**	**0.73**	< 10	< 10	< 10	< 10	**0.45**	< 0.19	< 2.0	< 0.23	--	--	--	--	--	--	--	--
Acenaphthylene	µg/L	470	3,100	<1.0	< 1.0	< 10	< 10	< 10	< 10	**0.24**	< 0.19	< 2.0	< 0.23	--	--	--	--	--	--	--	--
Anthracene	µg/L	4,700	31,000	<0.050	< 0.050	< 10	< 10	< 10	< 10	< 0.19	< 0.19	< 2.0	< 0.23	--	--	--	--	--	--	--	--
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.19	< 2.0	< 0.23	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.19	< 2.0	< 0.23	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.19	< 2.0	< 0.23	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	< 0.10	< 10	< 10	< 10	< 10	< 0.19	< 0.19	< 2.0	< 0.23	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	< 0.050	< 10	< 10	< 10	< 10	< 0.19	< 0.19	< 2.0	< 0.23	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	<0.050	< 0.050	< 10	< 10	< 10	< 10	< 0.19	< 0.19	< 2.0	< 0.23	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.19	< 2.0	< 0.23	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	<10	< 10	< 10	< 10	< 10	< 10	< 1.9	< 1.9	< 20	< 2.3	--	--	--	--	--	--	--	--
Fluoranthene	µg/L	1,000*	4,100	<0.10	< 0.10	< 10	< 10	< 10	< 10	< 0.19	< 0.19	< 2.0	< 0.23	--	--	--	--	--	--	--	--
Fluorene	µg/L	1,000*	4,100	**0.33**	**0.32**	< 10	< 10	< 10	< 10	**0.21**	< 0.19	< 2.0	< 0.23	--	--	--	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.19	< 2.0	< 0.23	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	<10	< 10	< 10	< 10	< 10	< 10	< 1.9	< 1.9	< 20	< 2.3	--	--	--	--	--	--	--	--
3 & 4 Methylphenol	µg/L	78	510	<10	< 10	< 10	< 10	< 10	< 10	< 1.9	< 1.9	< 20	< 2.3	--	--	--	--	--	--	--	--
Naphthalene	µg/L	20*	20*	**4.3**	< 0.50	**13**	**62**	< 10	< 10	**0.44**	< 0.19	< 2.0	< 0.23	**46**	**110**	**7.6**	< 5.0	**9.4**	< 5.0	< 5.0	< 5.0
Phenanthrene	µg/L	470	3,100	**0.16**	0.10	< 10	< 10	< 10	< 10	< 0.19	< 0.19	< 2.0	< 0.23	--	--	--	--	--	--	--	--
Phenol	µg/L	9,390	61,000	<10	< 10	< 10	< 10	< 10	< 10	**9.6**	< 0.97	< 9.9	< 1.1	--	--	--	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	<0.050	< 0.050	< 10	< 10	< 10	< 10	< 0.19	< 0.19	< 2.0	< 0.23	--	--	--	--	--	--	--	--
Inorganic Constituents																				
Antimony	µg/L	6.3	40	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--
Arsenic	µg/L	50*	50*	--	< 50	< 50	< 50	< 50	< 50	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--
Barium	µg/L	2,000	7,200	--	**93.6**	**94.8**	**66.1**	**92.1**	**86.4**	**89**	**85**	**86**	**75**	**77**	**83**	**73**	**64**	**67**	**39**	--	--
Beryllium	µg/L	31	200	--	< 10	< 10	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	< 5.0	**6.3**	**6.3**	**6.3**	**6.3**	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--
Copper	µg/L	630	4,100	--	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--
Lead	µg/L	15*	15*	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--
Nickel	µg/L	100	2,000	--	**26.0**	< 20	< 20	< 20	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	--	--
Zinc	µg/L	4,700	31,000	--	**22.4**	**312**	**62.7**	**87.8**	**312**	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--
Mercury	µg/L	2*	2*	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--	--	--
Total Cyanide	µg/L	310	2,000	--	< 10	< 10	**12**	< 10	**10**	**20**	**28**	**24**	**21**	**24**	--	--	--	--	**15**	--	--

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-12DD (Continued)																				
				05/10/10	02/25/10	08/14/09	06/07/06	03/09/06	12/21/05	09/30/05	03/02/05	12/14/04	10/05/04	06/11/04	03/05/04	12/18/03	09/10/03	06/12/03	06/03 DUP	03/13/03	03/03 DUP	12/12/02	09/18/02	11/07/01
Field Groundwater Quality Parameters																								
pH	SU	N/A	N/A	5.86	8.62	11.65	9.79	9.88	9.80	8.95	7.75	8.18	7.90	9.99	8.37	10.32	10.54	12.01	12.01	11.67	11.67	11.89	11.97	12.00
Specific Conductance	µm/cm	N/A	N/A	506	216	173	266	215	209	161	122	102	98	248	154	222	683	1057	1057	1,195	1,195	2,711	4,196	4,630
Temperature	°Celsius	N/A	N/A	23.54	22.12	27.75	25.03	24.40	23.91	23.22	22.99	24.98	26.9	27.48	--	22.34	23.94	24.58	24.58	22.75	22.75	21.50	26.32	22.80
Dissolved Oxygen	mg/L	N/A	N/A	0.72	0.54	1.15	0.26	0.27	0.23	0.35	1.27	2.76	1.50	1.61	3.81	0.31	0.82	0.76	0.76	0.19	0.19	0.30	0.13	0.24
ORP	mV	N/A	N/A	-45.2	-3.1	158.7	-143.3	-142.5	-150.3	-22.4	-60.1	-111.6	-62.7	-78.8	-60.8	-177.2	-204.1	-150.4	-150.4	-199.9	-199.9	-213.5	-209.3	-194.8
Turbidity	NTU	N/A	N/A	21.8	2.71	9.89	43.1	45	4.36	51.7	--	35.6	59	22	--	13.40	14.2	15	15	9.61	9.61	7.70	13.0	9.81
Laboratory Results - Natural Attenuation Parameters																								
Nitrogen, Ammonia (as N)	mg/L	N/A	N/A	--	--	--	--	--	--	--	**0.21**	< 0.20	< 0.20	**0.28**	**0.27**	**0.32**	**0.36**	**0.303**	**0.358**	**0.484**	**0.414**	**0.557**	**0.573**	**0.691**
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	< 0.050	< 0.050	--	--	--	--	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	**0.0579**	< 0.0500	**0.0828**	**0.0817**	**0.0749**	< 0.0500	< 0.0500	< 0.0500	**0.525**
Sulfate	mg/L	N/A	N/A	--	**19**	< 5.0	--	--	--	--	**1.50**	**21.2**	**1.79**	**2.63**	**5.18**	**3.09**	**4.54**	**10.8**	**8.56**	**6.82**	**6.39**	**4.85**	**4.97**	**3.08**
Sulfide	mg/L	N/A	N/A	--	< 1.0	< 1.0	--	--	--	--	**2.0**	**1.4**	< 1.0	**2.3**	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.74**
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	< 0.0050	**0.0071**	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	**0.0204**	**0.0166**	**0.0240**	**0.0152**	**0.0111**	**0.0083**	< 0.0050	**0.0052**	< 0.0050	< 0.0050	**0.0111**	< 0.005	< 0.005	< 0.005
Ferrous Iron	mg/L	N/A	N/A	--	< 0.010	< 0.010	--	--	--	--	**0.4**	**0.1**	**0.2**	< 0.1	< 0.1	**0.8**	< 0.1	**0.2**	**0.3**	**0.137**	**0.154**	< 0.200	< 0.200	< 2.00
Total Iron	mg/L	N/A	N/A	--	**0.2**	**0.23**	--	--	--	--	**1.97**	**0.345**	**1.12**	**0.932**	**0.435**	**0.525**	< 0.100	**0.212**	**0.168**	**0.187**	**0.303**	**0.126**	< 0.100	< 0.100
Carbon Dioxide	mg/L	N/A	N/A	--	< 0.050	< 50	--	--	--	--	< 0.60	< 0.60	< 0.60	< 0.6	180	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60	0.40	< 0.60
Carbon Monoxide	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	mg/L	N/A	N/A	--	**120**	**150**	--	--	--	--	**280**	**160**	**120**	**200**	**25**	**94**	**170**	**180**	**190**	**200**	**200**	**220**	**200**	**220**
Dissolved Nitrogen	mg/L	N/A	N/A	--	**4.1**	**4.5**	--	--	--	--	**22**	**16**	**16**	**19**	**21**	**23**	**19**	**20**	**20**	**23**	**23**	**19**	**23**	**16**
Dissolved Oxygen	mg/L	N/A	N/A	--	**1.5**	**1.5**	--	--	--	--	**2.4**	**1.7**	**2.0**	**0.61**	**1.6**	**5.4**	**1.6**	**1.3**	**1.4**	**1.4**	**1.3**	**6.7**	**6.5**	**2.8**
Laboratory Results - Organic Constituents																								
Volatile Organic Compounds																								
Benzene	µg/L	5*	9	< 5.0	**310**	**68**	**180**	**38**	**40**	**40**	**290**	**430**	**230**	**560**	**190**	**130**	**630**	**390**	**400**	**680**	**740**	**1,000**	**1,800**	**1,800**
Carbon Disulfide	µg/L	329	1,700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	--	**40**	< 5.0	**14**	< 5.0	< 5.0	< 5.0	**19**	**31**	**21**	**40**	**13**	**14**	**31**	**17**	**16**	**9.0**	**42**	**41**	**45**	**38**
Toluene	µg/L	1,000*	1,100	--	**10**	< 5.0	**5.3**	< 5.0	< 5.0	< 5.0	**8.0**	**11**	**6.7**	**16**	**5.7**	**6.2**	**13**	**8.6**	**8.2**	**6.1**	**15**	**14**	**16**	**13**
Total Xylenes	µg/L	31,000	200,000	--	**46**	< 5.0	**15**	< 5.0	< 5.0	< 5.0	**28**	**35**	**20**	**38**	**5.0**	**13.8**	**30**	**17**	**17**	**6.2**	**46**	**21**	**61**	**23**
Semivolatile Organic Compounds																								
Acenaphthene	µg/L	2,000*	6,100	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthylene	µg/L	470	3,100	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Anthracene	µg/L	4,700	31,000	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	--	--	--	--	--	--	--	**16**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	< 5.0	< 9.7	< 9.7	**55**	< 10	**18**	< 10	**39**	**71**	< 10	< 10	< 10	< 10	**89**	**17**	**16**	**150**	**180**	**160**	**220**	**150**
Phenanthrene	µg/L	470	3,100	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenol	µg/L	9,390	61,000	--	--	--	--	--	--	--	**18**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**19**	< 10	< 10	< 10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Inorganic Constituents																								
Antimony	µg/L	6.3	40	--	--	--	--	--	--	--	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Arsenic	µg/L	50*	50*	--	--	--	--	--	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	--	**31**	**390**	**130**	**109**	**109**	**102**	**76.0**	**110**	**164**	**208**	**136**	**161**	**287**	**287**	**281**	**382**	**404**	**932**	**1,490**	**1,860**
Beryllium	µg/L	31	200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	--	< 10	< 10	< 10	< 10	< 10.0	< 10	**21.5**	< 10	**32.1**	**116**	**10.4**	< 10	< 10	< 10	< 10	< 10	< 10	10	< 10	< 10
Copper	µg/L	630	4,100	--	< 20	< 20	< 10	< 10	< 10.0	< 10	< 10	< 10	< 10	**16.1**	< 10	< 10	< 10	**10.1**	**10.4**	< 10	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	--	< 10	< 10	< 10	< 10	**15.1**	**12.3**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	23.4	21.9	< 10	12	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	< 40	< 40	< 20	< 20	< 20.0	< 20	< 20	< 20	< 20	**97.7**	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Zinc	µg/L	4,700	31,000	--	--	--	--	--	--	--	**44.0**	< 20	**25.3**	< 20	**27.9**	< 20	< 20	**21.7**	**21.2**	**22**	**30**	< 20	< 20	< 20
Mercury	µg/L	2*	2*	--	--	--	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Cyanide	µg/L	310	2,000	--	**12**	**88**	**23**	**19**	**27**	**28**	**18**	**10**	< 10	< 10	**36**	< 10	< 10	< 10	< 10	**16**	**15**	< 10	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-22D						MW-23D										
				02/21/17	08/23/16	04/05/16	08/12/15	04/29/15	03/01/05	02/22/17	08/23/16	04/05/16	08/11/15	02/16/15	08/04/14	02.18/14	08/05/13	02/28/05	10/06/04	06/10/03
Field Groundwater Quality Parameters																				
pH	SU	N/A	N/A	6.91	6.74	9.07	7.69	6.83	6.66	6.04	6.04	6.17	5.93	5.87	6.38	6.15	5.55	6.07	5.91	6.17
Specific Conductance	µm/cm	N/A	N/A	418.20	372.2	300	327	475	423	385.10	381.1	400	304	369	374	372	363	378	388	399
Temperature	°Celsius	N/A	N/A	21.21	27.00	22.98	26.29	19.41	19.85	22.56	29.10	23.34	27.58	17.45	26.22	20.60	26.06	22.07	24.18	23.37
Dissolved Oxygen	mg/L	N/A	N/A	0.26	0.73	3.83	0.31	0.50	1.03	0.22	0.70	0.26	0.26	0.82	0.36	0.58	1.09	2.78	0.11	0.14
ORP	mV	N/A	N/A	-97.30	-81.5	106.5	-169.1	-74.0	-87.4	43.20	-7.1	121.5	149.7	200.9	72.9	163.0	-105.6	148.6	85.0	113.8
Turbidity	NTU	N/A	N/A	0.66	8.3	1.78	9.73	1.90	2.76	7.84	7.0	1.42	9.92	2.01	1.27	0.36	9.12	12.5	5.19	3.3
Laboratory Results - Natural Attenuation Parameters																				
Nitrogen, Ammonia (as N)	mg/L	N/A	N/A	--	--	--	--	--	< 0.20	--	--	--	--	--	--	--	--	< 0.20	< 0.20	< 0.200
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--	--	--	< 0.500	--	--	--	--	--	--	< 0.25	--	< 0.0500	< 0.0500	< 0.0500
Sulfate	mg/L	N/A	N/A	--	--	--	--	--	**2.67**	--	--	--	--	--	--	**49.0**	--	**28.0**	**55.2**	**39.7**
Sulfide	mg/L	N/A	N/A	--	--	--	--	--	< 1.0	--	--	--	--	--	--	< 1.0	--	< 1.0	< 1.0	< 1.0
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	**1.45**	--	--	--	--	--	--	< 0.100	--	**0.596**	**0.510**	**0.637**
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	**1.43**	--	--	--	--	--	--	< 0.100	--	**0.622**	**0.529**	**0.651**
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	--	**6.7**	--	--	--	--	--	--	**78**	--	< 0.1	< 0.1	**0.7**
Total Iron	mg/L	N/A	N/A	--	--	--	--	--	**6.43**	--	--	--	--	--	--	< 1.0	--	**0.375**	< 0.1	**1.35**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	--	**31**	--	--	--	--	--	--	**17**	--	**140**	**150**	**170**
Methane	mg/L	N/A	N/A	--	--	--	--	--	**24**	--	--	--	--	--	--	**16**	--	**31**	**22**	**23**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	**21**	--	--	--	--	--	--	**5.3**	--	**16**	**15**	**14**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	--	**1.5**	--	--	--	--	--	--	--	--	**1.1**	**1.5**	**1.0**
Laboratory Results - Organic Constituents																				
Volatile Organic Compounds																				
Benzene	µg/L	5.0*	9.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	<5.0	<5.0	< 5.0	< 5.0	< 5.0	--	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--
Ethylbenzene	µg/L	700*	2,300	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Naphthalene	µg/L	31,000	200,000	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																				
Acenaphthene	µg/L	2,000*	6,100	<0.50	<0.50	< 0.50	< 10	< 0.50	< 10	<0.50	<0.50	< 0.50	< 10	< 0.50	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthylene	µg/L	470	3,100	<1.0	<1.0	< 1.0	< 10	< 1.0	< 10	<1.0	<1.0	< 1.0	< 10	< 1.0	< 10	< 10	< 10	< 10	< 10	< 10
Anthracene	µg/L	4,700	31, 000	<0.050	<0.050	< 0.050	< 10	< 0.050	< 10	<0.050	<0.050	< 0.050	< 10	< 0.050	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	<0.050	< 0.050	< 0.050	< 0.050	--	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	<0.050	< 0.050	< 0.050	< 0.050	--	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	< 0.10	< 0.10	< 0.10	--	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	< 0.10	< 10	< 0.10	--	<0.10	<0.10	< 0.10	< 10	< 0.10	< 10	< 10	< 10	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	< 0.050	< 10	< 0.050	--	<0.050	<0.050	< 0.050	< 10	< 0.050	< 10	< 10	< 10	--	--	--
Chrysene	µg/L	117	392	<0.050	<0.050	< 0.050	< 10	< 0.050	--	<0.050	<0.050	< 0.050	< 10	< 0.050	< 10	< 10	< 10	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	< 0.10	< 0.10	< 0.10	--	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	--	--	--
2,4-Dimehylphenol	µg/L	700*	700*	<10	<10	< 10	< 10	< 10	< 10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	<0.10	<0.10	< 0.10	< 10	< 0.10	< 10	<0.10	<0.10	< 0.10	< 10	< 0.10	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	<0.10	<0.10	< 0.10	< 10	< 0.10	< 10	<0.10	<0.10	< 0.10	< 10	< 0.10	< 10	< 10	< 10	< 10	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	0.056	<0.050	< 0.050	< 0.050	< 0.050	--	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	--	--	--
2-Methylphenol	µg/L	780	5,100	<10	<10	< 10	< 10	< 10	< 10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	<10	< 10	< 10	< 10	< 10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	<0.50	<0.50	< 0.50	< 10	< 0.50	< 10	<0.50	<0.50	< 0.50	< 10	< 0.50	< 10	< 10	< 10	< 10	< 10	< 10
Phenanthrene	µg/L	470	3,100	<0.50	0.063	< 0.050	< 10	< 0.050	< 10	<0.050	<0.050	< 0.050	< 10	< 0.050	< 10	< 10	< 10	< 10	< 10	< 10
Phenol	µg/L	9,390	61,000	<10	<10	< 10	< 10	< 10	< 10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	<0.050	<0.050	< 0.050	< 10	< 0.050	< 10	<0.050	<0.050	< 0.050	< 10	< 0.050	< 10	< 10	< 10	< 10	< 10	< 10
Laboratory Results - Inorganic Constituents																				
Antimony	µg/L	6.3	40	--	< 20	< 20	< 20	< 20	< 40	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20.0	< 40	< 40	< 40
Arsenic	µg/L	50*	50*	--	< 50	< 50	< 50	< 50	< 50	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50.0	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	--	**1120**	**469**	**907**	**1,440**	**1,290**	--	**65.5**	**57.5**	**64.4**	**66.1**	**56.6**	52.2	54.3	52.2	48.2	50
Beryllium	µg/L	31	200	--	< 10	< 10	< 10	< 10	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	--	--	--
Cadmium	µg/L	7.8	51	--	< 5.0	< 5.0	< 5.0	< 5.0	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--
Chromium	µg/L	100	310	--	< 10	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10	< 10	< 10
Copper	µg/L	630	4,100	--	< 10	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10	< 10	< 10
Lead	µg/L	15*	15*	--	< 10	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	**45.4**	< 20.0	< 20.0	< 20.0	< 20	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20.0	< 20	< 20	< 20
Zinc	µg/L	4,700	31,000	--	< 20	< 20	< 20	< 20	< 20	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20.0	< 20	< 20	< 20
Mercury	µg/L	2*	2*	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.5	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.5	< 0.5	< 0.5
Total Cyanide	µg/L	310	2,000	--	< 10	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-24D																																
				02/19/18	08/14/17	02/28/17	08/22/16	07/26/16	07/08/16	06/24/16	04/05/16	08/13/15	02/17/15	08/06/14	02/18/14	02/04/13	02/06/12	02/15/11	02/22/10	08/14/09	06/06/06	03/09/06	12/20/05	09/30/05	03/01/05	12/14/04	09/30/04	06/08/04	03/03/04	12/16/03	09/09/03	06/10/03	03/11/03	12/11/02	09/18/02	11/08/01
Field Groundwater Quality Parameters																																				
pH	SU	N/A	N/A	5.95	5.90	5.70	6.43	6.19	6.44	6.47	6.33	6.08	6.03	6.16	6.56	5.84	5.9	5.77	6.05	6.14	5.68	5.74	5.83	5.88	5.83	9.78	5.91	5.71	5.91	6.16	4.79	6.13	5.92	5.84	6.03	5.89
Specific Conductance	µS/cm	N/A	N/A	466.2	73.80	49.20	137.7	62.8	123.5	135.8	46	484	64	325	45	195	247	198	69	324	368	350	379	450	348	461	536	478	436	381	468	466	404	486	568	538
Temperature	°Celsius	N/A	N/A	19.85	23.93	17.36	23.80	23.95	23.84	22.58	17.78	21.66	15.75	22.39	16.26	15.89	16.64	18.33	14.62	23.77	19.70	18.80	18.48	21.33	19.27	19.28	21.05	21.91	18.16	17.34	21.04	20.5	18.52	20.06	21.98	21.50
Dissolved Oxygen	mg/L	N/A	N/A	0.18	0.19	0.38	0.20	0.51	0.53	0.29	4.46	0.21	1.45	0.58	6.58	0.74	0.31	1.49	4.73	5.12	0.71	1.26	0.40	0.80	1.57	0.5	0.27	0.23	0.61	2.46	0.37	0.11	0.37	0.17	0.04	0.18
ORP	mV	N/A	N/A	40.96	90.32	90.3	-109.6	-72.4	-66.3	-112.8	78.4	-80.8	100.1	-58.6	162.0	55.4	57.5	79.1	135.4	214.6	4.3	35.3	-8.7	-16.8	103.4	-110.3	-35.1	-27.6	47.7	146.8	-51	-9.5	22.0	0.2	-32.5	-31.6
Turbidity	NTU	N/A	N/A	2.2	9.40	1.39	1.5	3.58	3.89	1.65	22.6	34	9.47	1.68	8.72	7.53	27.7	7.31	9.51	0.95	35.7	33.8	23.4	48.3	56.6	24.5	6.1	60	75.6	--	22.7	100	35	60.0	29.0	28.6
Laboratory Results - Natural Attenuation Parameters																																				
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	< 0.25	--	--	--	--	--	--	--	--	--	--	< 0.25	0.073	0.057	< 0.050	0.46	< 0.050	--	--	--	--	< 0.500	< 0.0500	< 0.0500	< 0.5	< 0.250	0.258	0.206	< 0.0500	< 0.0500	< 0.050	0.056	< 0.0500
Sulfate	mg/L	N/A	N/A	< 1.0	--	--	--	--	--	--	--	--	--	--	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	1.32	1.26	2.43	1.92	2.32	3.36	< 2.00	< 1.00	2.05	1.88	1.82	< 1.00
Sulfide	mg/L	N/A	N/A	< 2.0	--	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0	1.8	< 1.0	< 1.0	< 1.0	--	--	--	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.00	< 1.00	< 1.00
Ferrous Iron	mg/L	N/A	N/A	31.6	--	--	--	--	--	--	--	--	--	--	0.791	18 HF	16	12	< 0.010	4.9	--	--	--	--	13.7	38.6	38.3	38.1	25.1	0.2	11.6	14.6	15.7	49.5	36.0	41.3
Total Iron	mg/L	N/A	N/A	33.7	--	--	--	--	--	--	--	--	--	--	5.2	18	2.7	15	0.73	5.8	--	--	--	--	15.4	37.4	38.7	33.5	29.3	6.07	39.7	37.5	18.0	40.3	38.3	43.0
Carbon Dioxide	mg/L	N/A	N/A	160	--	--	--	--	--	--	--	--	--	--	< 1.0	140	3.5	1.8	0.23	0.94	--	--	--	--	140	200	180	200	190	79	200	200	200	230	190	170
Methane	mg/L	N/A	N/A	1.3	--	--	--	--	--	--	--	--	--	--	< 4	140	120	72	0.29	56	--	--	--	--	120	410	420	290	250	3.5	500	300	210	300	390	300
Dissolved Nitrogen	mg/L	N/A	N/A	20	--	--	--	--	--	--	--	--	--	--	17	18	3.9	4.3	4.1	4.5	--	--	--	--	18	20	16	20	22	17	21	19	20	16	19	17
Dissolved Oxygen	mg/L	N/A	N/A	3.0	--	--	--	--	--	--	--	--	--	--	9.0	4.7	0.99	1.4	1.5	1.6	--	--	--	--	3.0	2.3	0.98	0.51	0.83	5.1	0.64	0.62	0.58	4.6	6.0	1.1
Laboratory Results - Organic Constituents																																				
Volatile Organic Compounds																																				
Benzene	µg/L	5.0*	9.0	< 5.0	< 5.0	< 5.0	**11**	**120**	**9.0**	< 5.0	**100**	**39**	< 5.0	**15**	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	**7.5**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1700.0	<5.0	< 5.0	< 5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	**20**	< 5.0	< 5.0	**5.2**	**140**	**6.0**	< 5.0	**44**	**31**	< 5.0	**7.2**	< 5.0	**1.9**	< 5.0	< 5.0	< 5.0	< 5.0	**5.6**	< 5.0	< 5.0	5.1	< 5.0	**11**	< 5.0	**57**	**84**	< 5.0	**12**	**16**	**5.2**	**110**	**24**	**130**
Toluene	µg/L	1,000*	1,100	< 5.0	< 5.0	< 5.0	<5.0	**8**	< 5.0	< 5.0	8.6	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Xylenes	µg/L	31,000	200,000	< 5.0	< 5.0	< 5.0	<5.0	**18**	< 5.0	< 5.0	8.3	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																																				
Acenaphthene	µg/L	2,000*	6,100	**6.3**	< 0.50	< 0.50	**1.7**	**14**	**1.3**	**0.78**	< 0.50	**15**	< 10	< 10	< 10	**2.3**	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	**13**	< 10	< 10	**15**	< 10	< 10
Acenaphthylene	µg/L	470	3,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 10	< 10	**0.32**	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**15**
Anthracene	µg/L	4,700	31, 000	**0.22**	**0.41**	**0.17**	**0.19**	**0.35**	**0.32**	**0.25**	**0.27**	**0.41**	< 10	< 10	< 10	< 0.19	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	< 0.050	**0.36**	**0.56**	< 0.050	< 0.050	**0.087**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	< 0.050	**0.16**	**0.98**	< 0.050	< 0.050	**0.11**	< 0.050	**0.053**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	< 0.10	**0.47**	**1.1**	< 0.10	< 0.10	**0.26**	< 0.10	**0.14**	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	< 0.10	< 0.10	**1.1**	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 10	< 10	< 10	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 0.050	**0.33**	**1.0**	< 0.050	< 0.050	**0.10**	< 0.050	**0.074**	< 0.050	< 10	< 10	< 10	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	< 0.050	**0.28**	**0.53**	< 0.050	< 0.050	**0.15**	< 0.050	**0.077**	< 0.050	< 10	< 10	< 10	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 0.10	**0.26**	**1.0**	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1.9	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	**1.00**	**0.20**	< 0.10	< 0.10	**0.11**	**0.12**	< 0.10	< 0.10	< 0.10	< 10	< 10	< 10	< 0.19	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	**0.27**	< 0.10	< 0.10	**0.27**	**3.3**	**0.16**	< 0.10	< 0.10	**1.5**	< 10	< 10	< 10	**0.48**	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 0.050	<0.050	**1.0**	<0.050	< 0.050	**0.077**	< 0.050	**0.064**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1.9	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1.9	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	**49**	**4.5**	< 0.50	**14**	**290**	**13.0**	**8.7**	< 0.50	**220**	< 10	**37**	< 10	**3.5**	< 5.0	< 5.0	< 9.4	< 10	**13**	< 10	< 10	< 10	< 10	**17**	**11**	**36**	**66**	< 10	**35**	**35**	< 10	**98**	**23**	**130**
Phenanthrene	µg/L	470	3,100	**0.65**	< 0.50	< 0.50	**0.21**	**2**	**0.077**	< 0.050	< 0.050	**2.4**	< 10	< 10	< 10	< 0.19	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenol	µg/L	9,390	61,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 0.97	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	**0.11**	**0.37**	**0.055**	<0.050	**0.12**	**0.18**	< 0.050	**0.075**	**0.11**	< 10	< 10	< 10	< 0.19	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Laboratory Results - Inorganic Constituents																																				
Antimony	µg/L	6.3	40	< 20	--	--	< 20	--	--	--	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Arsenic	µg/L	50*	50*	< 50	--	--	< 20	--	--	--	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	**2,970**	--	--	**1100**	--	--	--	**1,250**	**4,370**	**422**	**2,270**	**149**	**2,300**	**2,600**	**2,200**	**470**	**2,800**	**3,510**	**3,040**	**3,910**	**4,170**	**2,870**	**3,850**	**4,120**	**3,940**	**4,060**	**3,080**	**4,210**	**2,600**	**3,550**	**3,940**	**4,130**	**4,400**
Beryllium	µg/L	31	200	< 10	--	--	< 10	--	--	--	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	< 5.0	--	--	< 5.0	--	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	< 10	--	--	< 10	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	< 10	--	--	< 10	--	--	--	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	< 10	--	--	< 10	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Mercury	µg/L	2*	2*	<0.02	--	--	<0.02	--	--	--	< 20	< 20	< 20	< 20	< 20	< 40	--	--	--	--	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	µg/L	100	2,000	< 20	--	--	< 20	--	--	--	**58.4**	**197**	**39.8**	< 20	**27.2**	**20**	< 40	< 40	< 40	< 40	< 20.0	< 20.0	< 20.0	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Zinc	µg/L	4,700	31,000	< 0.20	--	--	< 0.20	--	--	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--	--	--	**25.4**	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Total Cyanide	µg/L	310	2,000	< 10	--	--	< 10	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**15**	< 10	< 10	< 10	< 10	< 10	< 10	17	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 2 RRS (RRS applicable to the well location
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-25D (abandoned)																
				08/12/15	02/16/15	08/04/14	02/18/14	08/05/13	02/04/13	11/06/12	08/07/12	05/14/12	02/07/12	11/18/11	08/08/11	05/02/11	02/16/11	11/09/10	08/09/10	05/10/10	02/23/10
Field Groundwater Quality Parameters																				
pH	SU	N/A	N/A	5.40	5.60	5.69	5.69	4.65	5.53	5.62	5.09	5.41	5.22	5.46	5.49	5.06	5.40	5.49	7.14	5.43	5.59
Specific Conductance	µm/cm	N/A	N/A	446	371	461	461	441	408	416	484	464	426	403	489	485	418	471	502	470	493
Temperature	°Celsius	N/A	N/A	26.25	17.09	23.64	23.64	23.67	16.81	19.04	22.92	24.02	19.76	17.02	27.36	19.96	22.49	22.74	24.74	20.35	15.21
Dissolved Oxygen	mg/L	N/A	N/A	0.59	2.67	0.76	0.76	3.01	1.83	1.75	2.72	2.01	0.57	0.75	0.64	0.84	2.63	1.67	0.87	0.97	4.26
ORP	mV	N/A	N/A	4.2	129.2	116.1	116.1	-2.3	258.2	195.5	109.9	138.7	78.1	243.7	226.5	-15.6	282.5	241.2	-145.3	203.8	161.5
Turbidity	NTU	N/A	N/A	0.52	2.43	8.36	8.36	0.75	0.78	1.17	2.56	0.93	1.29	1.46	5.75	2.54	2.31	0.10	6.08	1.18	2.33
Laboratory Results - Natural Attenuation Parameters																				
Nitrogen, Ammonia (as N	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--	**3.9**	--	**3.4**	--	--	--	**4.2**	--	--	--	**4.2**	--	--	--	**3.7**
Sulfate	mg/L	N/A	N/A	--	--	--	< 1.0	--	< 5.0	--	--	--	< 5.0	--	--	--	< 5.0	--	--	--	< 5.0
Sulfide	mg/L	N/A	N/A	--	--	--	< 1.0	--	< 1.0	--	--	--	< 1.0	--	--	--	< 1.0	--	--	--	< 1.0
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	< 0.100	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ferrous Iron	mg/L	N/A	N/A	--	--	--	< 0.100	--	< 0.10 HF	--	--	--	< 0.10 HF	--	--	--	< 0.010	--	--	--	< 0.010
Total Iron	mg/L	N/A	N/A	--	--	--	**91**	--	< 0.10	--	--	--	< 0.10	--	--	--	< 0.010	--	--	--	< 0.010
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	< 1.0	--	**76**	--	--	--	**1.6**	--	--	--	**2.1**	--	--	--	**0.93**
Methane	mg/L	N/A	N/A	--	--	--	< 4	--	< 0.58	--	--	--	< 0.58	--	--	--	<0.58	--	--	--	<0.19
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	**20**	--	**18**	--	--	--	**5.6**	--	--	--	**4.4**	--	--	--	**3.8**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	**6.6**	--	**6.2**	--	--	--	**1.8**	--	--	--	**1.4**	--	--	--	**1.3**
Laboratory Results - Organic Constituents																				
Volatile Organic Compounds																				
Benzene	µg/L	5*	9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 5.0	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	< 5.0
Toluene	µg/L	1,000*	1,100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	< 5.0
Total Xylenes	µg/L	31,000	200,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	< 5.0
Semivolatile Organic Compounds																				
Acenaphthene	µg/L	2,000*	6,100	< 0.50	< 10	< 10	< 10	< 10	< 0.19	< 0.20	< 0.20	< 0.21	--	--	--	--	--	--	--	--	--
Acenaphthylene	µg/L	470	3,100	< 1.0	< 10	< 10	< 10	< 10	< 0.19	< 0.20	< 0.20	< 0.21	--	--	--	--	--	--	--	--	--
Anthracene	µg/L	4,700	31,000	< 0.050	< 10	< 10	< 10	< 10	< 0.19	< 0.20	< 0.20	< 0.21	--	--	--	--	--	--	--	--	--
Benzo[a]anthracene	µg/L	1.17	3.92	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.20	< 0.20	< 0.21	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.20	< 0.20	< 0.21	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.20	< 0.20	< 0.21	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	< 0.10	< 10	< 10	< 10	< 10	< 0.19	< 0.20	< 0.20	< 0.21	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 0.050	< 10	< 10	< 10	< 10	< 0.19	< 0.20	< 0.20	< 0.21	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	< 0.050	< 10	< 10	< 10	< 10	< 0.19	< 0.20	< 0.20	< 0.21	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.20	< 0.20	< 0.21	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	< 10	< 10	< 10	< 10	< 10	< 1.9	< 2.0	< 2.0	< 2.1	--	--	--	--	--	--	--	--	--
Fluoranthene	µg/L	1,000*	4,100	< 0.10	< 10	< 10	< 10	< 10	< 0.19	< 0.20	< 0.20	< 0.21	--	--	--	--	--	--	--	--	--
Fluorene	µg/L	1,000*	4,100	< 0.10	< 10	< 10	< 10	< 10	< 0.19	< 0.20	< 0.20	< 0.21	--	--	--	--	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.20	< 0.20	< 0.21	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	< 10	< 10	< 10	< 10	< 10	< 1.9	< 2.0	< 2.0	< 2.1	--	--	--	--	--	--	--	--	--
3 & 4 Methylphenol	µg/L	78	510	< 10	< 10	< 10	< 10	< 10	< 1.9	< 2.0	< 2.0	< 2.1	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	20*	20*	< 0.50	< 10	< 10	< 10	< 10	< 0.19	< 0.20	< 0.20	< 0.21	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<9.4
Phenanthrene	µg/L	470	3,100	< 0.050	< 10	< 10	< 10	< 10	< 0.19	< 0.20	< 0.20	< 0.21	--	--	--	--	--	--	--	--	--
Phenol	µg/L	9,390	61,000	< 10	< 10	< 10	< 10	< 10	< 0.97	< 0.99	< 1.0	< 1.1	--	--	--	--	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	< 0.050	< 10	< 10	< 10	< 10	< 0.19	< 0.20	< 0.20	< 0.21	--	--	--	--	--	--	--	--	--
Inorganic Constituents																				
Antimony	µg/L	6.3	40	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	50*	50*	< 50	< 50	< 50	< 50	< 50	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--
Barium	µg/L	2,000	7,200	**3,790**	**3,500**	**3,960**	**3,700**	**3,150**	**3,800**	**3,700**	**4,100**	**3,600**	**4,200**	**4,000**	**3,700**	**4,000**	**3,500**	--	--	--	**3,900**
Beryllium	µg/L	31	200	< 10	< 10	< 10	< 10	< 10	< 4.0	**5.7**	< 4.0	**5.3**	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10
Copper	µg/L	630	4,100	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	< 20
Lead	µg/L	15*	15*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10
Nickel	µg/L	100	2,000	< 20	< 20	< 20	< 20	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	--	--	--	< 40
Zinc	µg/L	4,700	31,000	< 20	**29.2**	< 20.0	**29.3**	< 20.0	< 20	**25**	< 20	< 20	--	--	--	--	--	--	--	--	--
Mercury	µg/L	2*	2*	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--	--	--	--
Total Cyanide	µg/L	310	2,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10	--	--	--	< 10

Notes:
Analyte was detected above laboratory detection limit
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-26D					MW-27D															
				02/22/17	08/23/16	04/11/16	03/01/05	03/05/04	02/21/17	08/23/16	04/05/16	08/11/15	04/30/15	03/01/05	12/15/04	10/04/04	06/10/04	03/04/04	12/17/03	09/09/03	06/12/03	03/12/03	12/11/02	09/19/02	11/09/01
Field Groundwater Quality Parameters																								
pH	SU	N/A	N/A	10.22	11.70	11.89	12.05	11.81	6.46	6.26	6.52	6.80	7.16	6.32	7.18	6.06	6.28	6.34	6.12	5.29	6.35	6.32	6.09	6.27	9.24
Specific Conductance	µm/cm	N/A	N/A	234.20	1903.9	2,170	2,066	2,362	215.9	209.8	200	254	266	182	206	213	242	209	335	212	202	222	190	219	230
Temperature	°Celsius	N/A	N/A	21.46	25.40	16.6	17.67	18.69	19.5	22.00	19.73	25.40	18.9	18.96	20.18	21.34	24.06	21.77	20.85	23.16	21	20.12	20.44	21.07	19.98
Dissolved Oxygen	mg/L	N/A	N/A	0.26	0.40	2.22	1.38	1.22	0.11	1.00	0.42	1.29	3.7	1.29	0.21	0.05	1.78	0.45	0.48	0.32	0.38	0.12	0.18	0.13	0.29
ORP	mV	N/A	N/A	35.90	-70.6	13.3	-444.4	8.6	-13.1	38.6	-3.0	-14.5	-14.8	-13.1	-130.6	-19.6	-36.8	44.0	-101.4	-74.3	-59	-29.6	2.3	-31.9	-14.5
Turbidity	NTU	N/A	N/A	8.01	1.6	4.36	2.95	1.41	5.26	4.2	8.77	1.03	2.97	0.72	0.53	0.92	1.80	2.72	1.81	3.27	0.0	1.2	0.0	0.0	2.06
Laboratory Results - Natural Attenuation Parameters																									
Nitrogen, Ammonia (as N	mg/L	N/A	N/A	--	--	--	**0.25**	**--**	--	--	--	--	--	< 0.20	**0.23**	**0.26**	**0.29**	< 0.20	< 0.20	**0.39**	**0.327**	**0.336**	**0.260**	< 0.200	< 0.200
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--	< 0.0500	**--**	--	--	--	--	--	< 0.500	< 0.0500	< 0.0500	< 0.5	< 0.250	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.050	**0.561**	**0.091**
Sulfate	mg/L	N/A	N/A	--	--	--	**5.88**	**--**	--	--	--	--	--	**3.25**	**3.49**	**5.24**	**3.13**	**4.05**	**4.21**	**3.62**	**3.06**	**3.43**	**3.18**	**3.78**	**4.12**
Sulfide	mg/L	N/A	N/A	--	--	--	**1.5**	**--**	--	--	--	--	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	< 0.0050	**--**	--	--	--	--	--	**1.40**	**1.41**	**1.48**	**1.5**	**1.48**	**1.52**	**1.51**	**1.49**	**1.51**	**1.47**	**1.4**	**1.35**
Total Manganese	mg/L	N/A	N/A	--	--	--	**0.0351**	**0.0067**	--	--	--	--	--	**1.44**	**1.44**	**1.48**	**1.5**	**1.5**	**1.48**	**1.53**	**1.49**	**1.52**	**1.55**	**1.32**	**1.26**
Ferrous Iron	mg/L	N/A	N/A	--	--	--	< 0.1	**--**	--	--	--	--	--	**3.0**	**3.1**	**3.0**	**5.4**	**3.5**	**1.4**	**< 2.5**	**2.4**	**2.6**	**1.88**	**2.21**	**1.66**
Total Iron	mg/L	N/A	N/A	--	--	--	**0.126**	< 0.1	--	--	--	--	--	**3.04**	**2.95**	**2.73**	**2.67**	**2.87**	**2.37**	**2.86**	**2.31**	**2.5**	**2.92**	**2.07**	**1.97**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	< 0.60	**--**	--	--	--	--	--	**62**	**67**	**61**	**68**	**72**	**65**	**59**	**72**	**75**	**67**	**68**	**42**
Methane	mg/L	N/A	N/A	--	--	--	**140**	**--**	--	--	--	--	--	**220**	**270**	**300**	**120**	**3.8**	**5.6**	**0.66**	**220**	**280**	**0.75**	**96**	**33**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	**22**	**--**	--	--	--	--	--	**26**	**31**	**24**	**20**	**31**	**26**	**20**	**23**	**25**	**19**	**25**	**18**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	**3.6**	**--**	--	--	--	--	--	**1.7**	**3.0**	**1.4**	**1.0**	**1.6**	**1.5**	**2.4**	**1.8**	**1.2**	**6.8**	**7.7**	**1.9**
Laboratory Results - Organic Constituents																									
Volatile Organic Compounds																									
Benzene	µg/L	5.0*	9	<5.0	<5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1700	<5.0	<5.0	< 5.0	--	--	<5.0	<5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	<5.0	<5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	<5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Naphthalene	µg/L	31,000	200,000	<5.0	<5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																									
Acenaphthene	µg/L	2,000*	6,100	<0.50	<0.50	--	< 10	< 10	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthylene	µg/L	470	3,100	<1.0	<1.0	--	< 10	< 10	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Anthracene	µg/L	4,700	31, 000	<0.050	<0.050	--	< 10	< 10	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	<0.050	--	--	--	<0.050	<0.050	< 0.050	< 0.050	< 0.050	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	<0.050	--	--	--	<0.050	<0.050	< 0.050	< 0.050	< 0.050	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	--	--	--	<0.10	<0.10	< 0.10	< 0.10	< 0.10	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	--	--	--	<0.10	<0.10	< 0.10	< 0.10	< 0.10	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	--	--	--	<0.050	<0.050	< 0.050	< 0.050	< 0.050	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	<0.050	<0.050	--	--	--	<0.050	<0.050	< 0.050	< 0.050	< 0.050	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	--	--	--	<0.10	<0.10	< 0.10	< 0.10	< 0.10	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	<10	<10	--	< 10	< 10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	<0.10	<0.10	--	< 10	< 10	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	<0.10	<0.10	--	< 10	< 10	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	<0.050	--	--	--	<0.050	<0.050	< 0.050	< 0.050	< 0.050	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	<10	<10	--	< 10	< 10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	<10	--	< 10	< 10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	<0.50	<0.50	< 5.0	< 10	< 10	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenanthrene	µg/L	470	3,100	<0.050	<0.050	--	< 10	< 10	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenol	µg/L	9,390	61,000	<10	<10	--	< 10	< 10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	<0.050	<0.050	--	< 10	< 10	<0.050	0.17	< 0.050	< 0.050	< 0.050	< 10	< 10	< 10	< 10	< 10	< 10	**12**	< 10	< 10	< 10	< 10	< 10
Laboratory Results - Inorganic Constituents																									
Antimony	µg/L	6.3	40	--	< 20	< 20	< 40	< 40	--	< 20	< 20	< 20	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Arsenic	µg/L	50*	50*	--	< 50	< 50	< 50	< 50	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	--	**1,340**	**1,740**	**1,450**	**1,720**	--	**934**	**961**	**813**	**813**	**869**	**862**	**878**	**865**	**954**	**904**	**921**	**600**	**910**	**968**	**825**	**859**
Beryllium	µg/L	31	200	--	< 10	< 10	--	--	--	< 10	< 10	< 10	< 10	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	< 50	< 50	--	--	--	< 50	< 50	< 50	< 50	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	--	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	--	<10	**12.9**	< 10	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	--	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	< 20	< 20	< 20	< 20	--	**37.5**	**23**	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Zinc	µg/L	4,700	31,000	--	< 20	< 20	< 20	< 20	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	**22.7**	< 20	< 20	< 20	< 20	**22**	< 20	< 20
Mercury	µg/L	2*	2*	--	< 0.20	< 0.20	< 0.5	< 0.5	--	< 0.20	< 0.20	< 0.20	<0.20	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Cyanide	µg/L	310	2,000	--	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-27DD												
				04/30/15	03/01/05	12/15/04	10/04/04	06/10/04	03/04/04	12/17/03	09/10/03	06/12/03	03/13/03	12/12/02	09/19/02	11/9/2001
Field Groundwater Quality Parameters																
pH	SU	N/A	N/A	7.24	7.44	7.22	7.48	7.25	9.74	7.06	6.91	9.53	7.22	7.67	10.59	7.62
Specific Conductance	µm/cm	N/A	N/A	602	507	515	575	604	481	864	465	525	564	516	663	548
Temperature	°Celsius	N/A	N/A	19.02	19.59	20.32	21.87	21.58	20.20	20.53	21.42	22.68	20.19	19.78	21.36	21.91
Dissolved Oxygen	mg/L	N/A	N/A	0.52	1.39	0.39	0.21	0.12	0.62	0.35	0.83	0.09	0.18	0.22	0.35	1.70
ORP	mV	N/A	N/A	-82.7	-144.2	-220.5	-168.5	-141.5	-9.1	-207.3	-190.2	-204.5	-159.1	-215.3	-40.6	-122.1
Turbidity	NTU	N/A	N/A	16.9	2.83	3.0	5.8	4.30	1.18	0.00	6.81	0.5	49	1.40	8.50	4.64
Laboratory Results - Natural Attenuation Parameters																
Nitrogen, Ammonia (as N)	mg/L	N/A	N/A	--	**0.22**	**0.32**	**0.37**	**0.48**	**1.01**	**0.23**	**0.47**	**0.699**	**0.379**	**0.345**	**0.315**	**0.343**
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	< 0.500	< 0.0500	< 0.0500	< 0.5	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Sulfate	mg/L	N/A	N/A	--	**41.1**	**1.21**	**38.9**	**28.5**	**3.40**	**37.2**	**35.3**	**28.6**	**38.6**	**43.0**	**46.2**	**37.3**
Sulfide	mg/L	N/A	N/A	--	**1.5**	< 1.0	< 1.0	< 1.0	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.00	< 1.00	< 1.00
Dissolved Manganese	mg/L	N/A	N/A	--	**0.862**	**0.826**	**0.915**	**0.882**	**0.0166**	**0.932**	**0.687**	**0.294**	**0.901**	**0.908**	**0.856**	**0.805**
Total Manganese	mg/L	N/A	N/A	--	**0.853**	**0.857**	**0.913**	**0.905**	**0.0537**	**0.950**	**0.673**	**0.298**	**0.971**	**0.954**	**0.811**	**0.795**
Ferrous Iron	mg/L	N/A	N/A	--	**3.4**	**4.1**	**4.5**	**6.3**	< 0.1	**2.9**	**1.7**	**0.1**	**4.56**	**4.08**	**2.67**	**2.03**
Total Iron	mg/L	N/A	N/A	--	**3.55**	**4.63**	**3.80**	**3.72**	< 0.1	**3.73**	**2.10**	**0.209**	**4.96**	**3.96**	**3.98**	**2.22**
Carbon Dioxide	mg/L	N/A	N/A	--	**8.9**	**12**	**13**	**11**	< 0.6	**15**	**3.9**	< 0.60	**14**	**14**	**0.60**	**6.0**
Methane	mg/L	N/A	N/A	--	**5.3**	**5.7**	**4.1**	**6.6**	**3.4**	**5.8**	**8.8**	**5.3**	**5.2**	**4.6**	**2.5**	**2.9**
Dissolved Nitrogen	mg/L	N/A	N/A	--	**24**	**19**	**18**	**20**	**22**	**20**	**22**	**19**	**23**	**18**	**20**	**17**
Dissolved Oxygen	mg/L	N/A	N/A	--	**3.9**	**1.0**	**0.91**	**0.83**	**2.0**	**1.2**	**3.0**	**1.0**	**1.1**	**7.3**	**7.2**	**14**
Laboratory Results - Organic Constituents																
Volatile Organic Compounds																
Benzene	µg/L	5.0*	9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1700	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Naphthalene	µg/L	31,000	200,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																
Acenaphthene	µg/L	2,000*	6,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthylene	µg/L	470	3,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Anthracene	µg/L	4,700	31, 000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	< 0.050	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	< 0.050	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	< 0.10	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	< 10	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 10	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	< 10	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 0.10	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 0.050	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenanthrene	µg/L	470	3,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenol	µg/L	9,390	61,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Laboratory Results - Inorganic Constituents																
Antimony	µg/L	6.3	40	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Arsenic	µg/L	50*	50*	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	**544**	**423**	**447**	**424**	**421**	**205**	**429**	**337**	**278**	**424**	**407**	**342**	**273**
Beryllium	µg/L	31	200	< 10	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	< 10	< 10	< 10	< 10	< 10	**26**	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Zinc	µg/L	4,700	31,000	< 20	< 20	< 20	< 20	< 20	**39.2**	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Mercury	µg/L	2*	2*	< 0.20	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Cyanide	µg/L	310	2,000	**64**	**25**	**18**	**55**	< 10	< 10	**55**	< 10	< 10	**39**	< 10	**39**	**37**

Notes:
Analyte was detected above laboratory detection limit
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-108D											
				2/22/2017	4/8/2016	2/17/2015	8/5/2014	2/17/2014	02/06/13	02/07/12	02/23/11	02/23/10	08/12/09	03/02/05	12/16/04
Field Groundwater Quality Parameters															
pH	SU	N/A	N/A	7.70	7.04	6.96	6.92	7.01	6.73	5.22	6.47	6.51	8.89	8.21	10.15
Specific Conductance	µm/cm	N/A	N/A	151.60	200	140	158	151	151	426	115	111	141	169	246
Temperature	°Celsius	N/A	N/A	22.45	20.92	19.07	24.23	20.99	21.85	19.76	20.30	19.35	25.18	21.11	22.59
Dissolved Oxygen	mg/L	N/A	N/A	0.30	0.54	2.00	1.68	2.16	0.65	0.57	2.19	3.67	5.94	0.87	0.58
ORP	mV	N/A	N/A	-149.30	-66.4	86.3	27.8	76.1	-76.5	78.1	150.10	155.70	32.6	-191.4	-141.1
Turbidity	NTU	N/A	N/A	0.90	13.9	2.11	0.82	0.43	0.31	1.29	3.42	0.62	0	1.64	6.41
Laboratory Results - Natural Attenuation Parameters															
Nitrogen, Ammonia (as N)	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	< 0.20	< 0.20
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--	--	**0.43**	< 0.050	**4.2**	< 0.050	< 0.050	< 0.050	< 0.0500	< 0.0500
Sulfate	mg/L	N/A	N/A	--	--	--	--	**2.6**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**2.73**	**4.31**
Sulfide	mg/L	N/A	N/A	--	--	--	--	< 1.0	< 1.0	< 1.0	**1.60**	< 1.0	< 1.0	< 1.0	< 1.0
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	**0.198**	**0.0439**
Total Manganese	mg/L	N/A	N/A	--	--	--	--	< 0.100	--	--	--	--	--	**0.193**	**0.0984**
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	**0.139**	< 0.10 HF	< 0.10 HF	< 0.010	< 0.010	< 0.010	**0.3**	**0.1**
Total Iron	mg/L	N/A	N/A	--	--	--	--	< 5.0	**0.29**	< 0.10	**0.22**	< 0.010	**0.330**	**0.360**	**0.446**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	< 1.0	**7.2**	**1.6**	**0.18**	**0.16**	< 0.050	**0.71**	< 0.60
Methane	mg/L	N/A	N/A	--	--	--	--	< 4	**70**	< 0.58	<0.58	<0.19	**4.1**	**69**	**240**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	**22**	--	**5.6**	**4.7**	**4.0**	**4.8**	**18**	**17**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	**12**	**7.0**	**1.8**	**1.6**	**1.4**	**1.7**	**1.2**	**1.5**
Laboratory Results - Organic Constituents															
Volatile Organic Compounds															
Benzene	µg/L	5*	9	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds															
Acenaphthene	µg/L	2,000*	6,100	<0.50	< 0.50	< 10	< 10	< 10	< 0.25	--	--	--	--	< 10	< 10
Acenaphthylene	µg/L	470	3,100	<1.0	< 1.0	< 10	< 10	< 10	< 0.25	--	--	--	--	< 10	< 10
Anthracene	µg/L	4,700	31,000	<0.050	< 0.050	< 10	< 10	< 10	< 0.25	--	--	--	--	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	**0.085**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.25	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.25	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.25	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	< 0.10	< 10	< 10	< 10	< 0.25	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	**0.052**	< 0.050	< 10	< 10	< 10	< 0.25	--	--	--	--	--	--
Chrysene	µg/L	117	392	**0.081**	< 0.050	< 10	< 10	< 10	< 0.25	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.25	--	--	--	--	--	--
2,4-Dimehylphenol	µg/L	700*	700*	<10	< 10	< 10	< 10	< 10	< 2.5	--	--	--	--	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	<0.10	< 0.10	< 10	< 10	< 10	< 0.25	--	--	--	--	< 10	< 10
Fluorene	µg/L	1,000*	4,100	<0.10	< 0.10	< 10	< 10	< 10	< 0.25	--	--	--	--	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.25	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	<10	< 10	< 10	< 10	< 10	< 2.5	--	--	--	--	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	< 10	< 10	< 10	< 10	< 2.5	--	--	--	--	< 10	< 10
Naphthalene	µg/L	20*	20*	<0.50	< 0.50	< 10	< 10	< 10	< 0.25	< 5.0	< 5.0	<9.9	<9.4	< 10	< 10
Phenanthrene	µg/L	470	3,100	<0.050	< 0.050	< 10	< 10	< 10	< 0.25	--	--	--	--	< 10	< 10
Phenol	µg/L	9,390	61,000	<10	< 10	< 10	< 10	< 10	< 1.2	--	--	--	--	< 10	< 10
Pyrene	µg/L	1,000*	3,100	<0.050	< 0.050	< 10	< 10	< 10	< 0.25	--	--	--	--	< 10	< 10
Inorganic Constituents															
Antimony	µg/L	6.3	40	--	< 20	< 20	< 20	< 20	< 20	--	--	--	--	< 40	< 40
Arsenic	µg/L	50*	50*	--	< 50	< 50	< 50	< 50	< 20	--	--	--	--	< 50	< 50
Barium	µg/L	2,000	7,200	--	**783**	**631**	**632**	**465**	**600**	**4,200**	**540**	**470**	**620**	**513**	**416**
Beryllium	µg/L	31	200	--	< 10	< 10	< 10	< 10	< 4.0	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	< 5	**6.6**	**13.1**	**9.3**	< 5.0	--	--	--	--	--	--
Chromium	µg/L	100	310	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	--	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 10	< 10
Lead	µg/L	15*	15*	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	**44**	< 20	< 20	< 20	< 40	< 40	< 40	< 40	< 40	< 20	< 20
Zinc	µg/L	4,700	31,000	--	< 20	**43.3**	**50.1**	**113**	< 20	--	--	--	--	< 20	< 20
Mercury	µg/L	2*	2*	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	< 0.5	< 0.5
Total Cyanide	µg/L	310	2,000	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-110D															
				02/23/17	DUP-4	08/24/16	8/16 DUP	04/07/16	4/16 DUP	08/13/15	08/15 DUP	02/16/15	08/06/14	02/20/14	08/07/13	08/13 DUP	02/08/13	02/13 DUP	11/07/12	11/12 DUP
Field Groundwater Quality Parameters																			
pH	SU	N/A	N/A	6.30		6.22		6.43		6.14		6.18	6.21	6.28	5.07		6.27		6.32	
Specific Conductance	µm/cm	N/A	N/A	518.6		600		501		565		495	533	495	492		503		503	
Temperature	°Celsius	N/A	N/A	23.35		25.20		20.39		26.45		17.20	27.75	19.80	25.46		20.28		23.88	
Dissolved Oxygen	mg/L	N/A	N/A	0.19		0.44		0.19		0.38		1.68	0.52	0.67	0.71		1.38		0.2	
ORP	mV	N/A	N/A	-48.50		-69.1		-60.20		-146.7		-145.9	-52.6	-34.6	-142.9		-40.4		-113.2	
Turbidity	NTU	N/A	N/A	5.95		9.4		8.30		2.42		9.26	2.51	0.66	0.28		9.8		0.95	
Laboratory Results - Natural Attenuation Parameters																			
Nitrogen, Ammonia (as N)	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**--**	--	--	--	--	--	--	--	--
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	< 0.25	--	< 0.25	--	--	**0.34 ***	< 0.050	--	--
Sulfate	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**1.1**	--	< 1.0	--	--	**7.0**	< 5.0	--	--
Sulfide	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	< 1.00	--	< 1.0	--	--	< 1.0	< 1.0	--	--
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**--**	--	**5.00**	--	--	--	--	--	--
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**5.60**	--	**5.89**	--	--	4.6 HF	4.8 HF	--	--
Total Iron	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**6.61**	--	**140**	--	--	**6.8**	**4.4**	--	--
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**150**	--	< 1.0	--	--	**120**	**66**	--	--
Methane	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**960**	--	**770**	--	--	**620**	**520**	--	--
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**21**	--	**17**	--	--	--	--	--	--
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**3.9**	--	**3.0**	--	--	**2.8**	**5.7**	--	--
Laboratory Results - Organic Constituents																				
Volatile Organic Compounds																				
Benzene	µg/L	5*	9	**70**	**63**	**86**	**88**	**96**	**94**	**120**	**120**	**340**	**480**	**480**	**580**	**620**	**150**	**150**	**430**	**280**
Carbon Disulfide	µg/L	329	1,700	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 40	< 40	< 40	< 40
Ethylbenzene	µg/L	700*	2,300	**150**	**160**	**280**	**240**	**290**	**280**	**420**	**450**	**560**	**620**	**540**	**390**	**460**	**310**	**320**	**550**	**440**
Toluene	µg/L	1,000*	1,100	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**5.3**	**5.1**	**5.2**	**5.7**	< 20	< 20	< 20	< 20
Total Xylenes	µg/L	31,000	200,000	**5.7**	**6.0**	**5.2**	<5.0	**7.0**	**6.8**	**11**	**11**	**47**	**60**	**48**	**64**	**45**	< 40	< 40	< 40	< 40
Semivolatile Organic Compounds																				
Acenaphthene	µg/L	2,000*	6,100	**46**	**55**	**80**	**80**	**76**	**60**	**77**	**70**	**97**	**120**	**81**	**100**	**96**	**81**	**17**	**89**	**99**
Acenaphthylene	µg/L	470	3,100	**1.9**	**1.8**	**2.7**	**3.0**	**2.8**	< 1.0	**3.0**	**2.4**	< 10	< 10	< 10	< 10	< 10	**3.9**	**1.9**	**4.5**	**4.4**
Anthracene	µg/L	4,700	31,000	**6.2**	**5.5**	**8.3**	**8.9**	**7.1**	**6.3**	**8.1**	**5.9**	< 10	< 10	< 10	< 10	< 10	**6.4**	**0.34**	**6.8**	**6.7**
Benzo[a]anthracene	µg/L	1.17	3.92	**0.20**	**0.17**	**0.30**	**0.31**	**0.20**	**0.15**	**0.32**	**0.23**	**0.20**	**0.40**	**0.18**	**0.27**	**0.3**	< 1.9	< 1.9	< 2.0	< 0.20
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.20	< 1.9	< 1.9	< 2.0	< 0.20
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 1.9	< 1.9	< 2.0	< 0.20
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 10	< 10	< 10	< 10	< 10	< 1.9	< 1.9	< 2.0	< 0.20
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 10	< 10	< 10	< 10	< 10	< 1.9	< 1.9	< 2.0	< 0.20
Chrysene	µg/L	117	392	**0.16**	**0.14**	**0.25**	**0.27**	**0.18**	**0.13**	**0.23**	**0.17**	< 10	< 10	< 10	< 10	< 10	< 1.9	< 1.9	< 2.0	< 0.20
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 1.9	< 1.9	< 2.0	< 0.20
2,4-Dimehylphenol	µg/L	700*	700*	<10	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 19	< 19	< 20	< 2.0
Fluoranthene	µg/L	1,000*	4,100	**4.5**	**4.1**	**6.3**	**6.6**	**4.4**	**4.0**	**6.5**	**4.8**	< 10	< 10	< 10	< 10	< 10	**5.3**	**2.1**	**5.2**	**5.5**
Fluorene	µg/L	1,000*	4,100	**15**	**19**	**28**	**26**	**21**	**19**	**19**	**16**	**33**	**40**	**25**	**32**	**31**	**25**	**14**	**28**	**29**
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.20	< 1.9	< 1.9	< 2.0	< 0.20
2-Methylphenol	µg/L	780	5,100	<10	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 19	< 19	< 20	< 2.0
3 & 4 Methylphenol	µg/L	78	510	<10	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 19	< 19	< 20	< 2.0
Naphthalene	µg/L	20*	20*	**760**	**1,100**	**3,100**	**3,100**	**1,600**	**1300 E**	**2,200**	**1,500**	**3,400**	**4,400**	**1,100**	**4,400**	**4,200**	**2,300**	**15**	**5,000**	**1,400**
Phenanthrene	µg/L	470	3,100	**26**	**32**	**50**	**48**	**40**	**33**	**43**	**37**	**53**	**69**	**40**	**59**	**60**	**42**	**42**	**49**	**58**
Phenol	µg/L	9,390	61,000	<10	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 9.7	< 9.7	< 10	**2.4**
Pyrene	µg/L	1,000*	3,100	**5.6**	**5.1**	**7.9**	**8.2**	**5.9**	**5.2**	**8.3**	**6.1**	< 10	< 10	< 10	< 10	< 10	**8.1**	**2.2**	**6.4**	**6.1**
Inorganic Constituents																				
Antimony	µg/L	6.3	40	--	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Arsenic	µg/L	50*	50*	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 20	< 20	< 20	< 20
Barium	µg/L	2,000	7,200	--	--	**3510**	**2900**	**2510**	**2490**	**2800**	**3780**	**4007**	**4850**	**4770**	**5100**	**5210**	**3200**	**800**	**5000**	**4800**
Beryllium	µg/L	31	200	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0
Cadmium	µg/L	7.8	51	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium	µg/L	100	310	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20
Lead	µg/L	15*	15*	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	--	**122**	**120**	**177**	**181**	**104**	**103**	**107**	**110**	**125**	**138**	**140**	**160**	< 40	**160**	**160**
Zinc	µg/L	4,700	31,000	--	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Mercury	µg/L	2*	2*	--	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Total Cyanide	µg/L	310	2,000	--	--	**14**	**12**	< 10.0	**0.020**	**0.015**	**0.012**	< 0.010	**0.024**	**0.021**	**18**	**18**	**20**	**32**	**24**	**25**

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-110D (continued) 08/09/12	05/17/12	02/15/12	02/12 DUP	11/17/11	08/10/11	05/05/11	02/21/11	11/10/10	08/10/10	05/11/10	02/24/10	02/10 DUP	08/12/09	06/07/06	03/09/06	12/22/05	09/30/05	03/02/05	03/05 DUP	12/16/04	09/30/04
Field Groundwater Quality Parameters																									
pH	SU	N/A	N/A	5.62	6.57	6.2		6.32	6.31	6.17	6.23	6.07	6.12	5.86	6.13		6.05	6.13	6.16	6.38	6.17	6.24		5.62	6.10
Specific Conductance	µm/cm	N/A	N/A	548	527	488		547	577	467	489	504	508	506	432		507	521	475	449	524	523		509	472
Temperature	°Celsius	N/A	N/A	26.84	24.06	20.97		21.39	30.14	19.43	21.38	24.66	26.84	23.54	16.26		26.32	24.43	21.19	20.93	25.21	21.1		22.39	24.79
Dissolved Oxygen	mg/L	N/A	N/A	0.17	0.83	2.11		0.48	0.25	0.86	0.53	0.11	19.74	0.72	1.67		3.46	0.24	0.28	0.61	0.34	1.42		0.16	0.04
ORP	mV	N/A	N/A	-47.8	-61.2	-65.8		-59	-81.8	-69.0	-74.4	-108.6	-91.1	-45.2	-102.3		-131.6	-96.1	-87.0	-55.6	-99.3	-112.8		-150.9	-234.3
Turbidity	NTU	N/A	N/A	7.21	4.63	3.93		4.6	29.0	8.59	7.58	0.24	2.42	21.8	0.61		3.19	1.02	0.90	4.29	2.10	1.62		5.32	2.98
Laboratory Results - Natural Attenuation Parameters																									
Nitrogen, Ammonia (as N)	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.20	< 0.20	< 0.20	< 0.20
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	< 0.050	< 0.050	--	--	--	< 0.050	--	--	--	< 0.050	< 0.050	0.19	--	--	--	--	< 0.500	< 0.500	< 0.0500	< 0.0500
Sulfate	mg/L	N/A	N/A	--	--	< 5.0	< 5.0	--	--	--	< 5.0	--	--	--	< 5.0	< 5.0	< 5.0	--	--	--	--	**2.38**	< 1.00	**1.97**	**4.95**
Sulfide	mg/L	N/A	N/A	--	--	1.0	< 1.0	--	--	--	< 1.0	--	--	--	< 1.0	< 1.0	< 1.0	--	--	--	--	**1.3**	< 1.0	< 1.0	< 1.0
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.760**	**0.762**	**0.584**	**1.36**
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.754**	**0.748**	**0.635**	**1.36**
Ferrous Iron	mg/L	N/A	N/A	--	--	5.3 HF	4.9 HF	--	--	--	**1.0**	--	--	--	**3**	**2.8**	**1.7**	--	--	--	--	**3.8**	**3.7**	**3.8**	**5.3**
Total Iron	mg/L	N/A	N/A	--	--	**7.3**	**7.5**	--	--	--	**6.7**	--	--	--	**4.1**	**4.3**	**3.6**	--	--	--	--	**4.09**	**4.07**	**3.98**	**5.51**
Carbon Dioxide	mg/L	N/A	N/A	--	--	**2.3**	**2.3**	--	--	--	**1.6**	--	--	--	**1.8**	**1.8**	**1.5**	--	--	--	--	**140**	**150**	**170**	**160**
Methane	mg/L	N/A	N/A	--	--	**480**	**480**	--	--	--	**720**	--	--	--	**720**	**780**	**230**	--	--	--	--	**1,500**	**1,700**	**2700**	**1,500**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	**4.8**	**5.5**	--	--	--	**4.1**	--	--	--	**4**	**4.1**	**4.1**	--	--	--	--	**17**	**18**	**16**	**16**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	**1.5**	**1.6**	--	--	--	**1.4**	--	--	--	**1.2**	**1.3**	**1.4**	--	--	--	--	**3.4**	**2.8**	**0.88**	**0.86**
Laboratory Results - Organic Constituents																									
Volatile Organic Compounds																									
Benzene	µg/L	5*	9	**380**	**400**	< 250	< 250	<250	**370**	**290**	**310**	**430**	**450**	**610**	**620**	**580**	< 25	**790**	**1,100**	**1,200**	**1,900**	**1,900**	**1,900**	**1,600**	**950**
Carbon Disulfide	µg/L	329	1,700	< 40	< 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	**480**	**480**	**340**	**340**	<250	<250	<250	350	--	--	--	**490**	**460**	**440**	**710**	**770**	**350**	**950**	**900**	**950**	**900**	**820**
Toluene	µg/L	1,000*	1,100	< 20	< 20	<250	<250	<250	<250	<250	<250	--	--	--	< 50	< 50	<25	**18**	**31**	**79**	**100**	**220**	**230**	**170**	**71**
Total Xylenes	µg/L	31,000	200,000	< 40	< 40	<250	<250	<250	<250	<250	<250	--	--	--	**91**	**82**	**29**	**330**	**370**	**370**	**490**	**480**	**520**	**570**	**410**
Semivolatile Organic Compounds																									
Acenaphthene	µg/L	2,000*	6,100	**100**	**110**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**110**	**100**	**120**	**83**
Acenaphthylene	µg/L	470	3,100	**5.3**	**6.7**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**43**	**42**	**30**	**49**
Anthracene	µg/L	4,700	31,000	**9.5**	**12**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**11**	**11**	**10**	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	< 1.9	< 2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	< 1.9	< 2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	< 1.9	< 2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	< 1.9	< 2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 1.9	< 2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	< 1.9	< 2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 1.9	< 2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimehylphenol	µg/L	700*	700*	< 19	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	**7.7**	**8.9**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	**35**	**38**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**44**	**42**	**47**	**49**
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 1.9	< 2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	< 19	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	< 19	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	**1,900**	**4,100**	**4,500**	**4,600**	**2,700**	**2,600**	**2,700**	**5,500**	**6,400**	**6,800**	**4,900**	**3,600**	**4,100**	**4,000**	**4,400**	**4,600**	**3,000**	**6,300**	**6,000**	**5,500**	**7,200**	**4,400**
Phenanthrene	µg/L	470	3,100	**69**	**71**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**73**	**70**	**74**	**64**
Phenol	µg/L	9,390	61,000	< 9.6	< 9.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	**13**
Pyrene	µg/L	1,000*	3,100	**9.9**	**8.7**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10
Inorganic Constituents																									
Antimony	µg/L	6.3	40	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 40	< 40	< 40	< 40
Arsenic	µg/L	50*	50*	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	**5,000**	**4,600**	**4,100**	**4,200**	**4,200**	**5,500**	**4,300**	**5,000**	--	--	--	**5,300**	**5,400**	**6,500**	**6,740**	**6,600**	**6,740**	**7,270**	**6,120**	**6,050**	**7,090**	**4,060**
Beryllium	µg/L	31	200	< 4.0	< 4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	< 20	< 20	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	**160**	**170**	**170**	**180**	**170**	**190**	**200**	**200**	--	--	--	**230**	**230**	**280**	**121**	**130**	**106**	**97**	**24.6**	**24.7**	**< 20**	**< 20**
Zinc	µg/L	4,700	31,000	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 20	< 20	< 20	< 20
Mercury	µg/L	2*	2*	< 0.20	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5
Total Cyanide	µg/L	310	2,000	**19**	**23**	**15**	**22**	--	--	--	**24**	--	--	--	**25**	**24**	**12**	**42**	**55**	**15**	**41**	**48**	**50**	**115**	**27**

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-111D														
				8/13/2015	8/7/2014	11/08/12	11/18/11	08/13/09	08/09 DUP	06/07/06	06/06 DUP	03/10/06	03/06 DUP	12/22/05	09/30/05	09/05 DUP	03/02/05	12/16/04	09/30/04
Field Groundwater Quality Parameters																			
pH	SU	N/A	N/A	6.21	6.48	6.62	6.48	6.47		6.42		6.58		6.60	6.41		6.67	6.51	6.51
Specific Conductance	µm/cm	N/A	N/A	542	559	547	540	598		691		772		618	683		673	739	719
Temperature	°Celsius	N/A	N/A	26.85	27.81	21.46	22.4	24.99		22.58		20.87		22.81	25.35		20.05	19.5	24.06
Dissolved Oxygen	mg/L	N/A	N/A	0.23	0.23	0.20	0.24	4.97		0.49		0.36		0.37	0.22		1.45	1.62	0.39
ORP	mV	N/A	N/A	-204.5	-134.3	-151.6	-124.3	-184.8		-107.7		-93.1		-85.0	-114.2		-84.4	-102.1	-127.5
Turbidity	NTU	N/A	N/A	5.59	5.64	0.73	2.40	2.52		1.05		2.86		2.37	0.00		1.24	6.02	2.8
Laboratory Results - Natural Attenuation Parameters																			
Nitrogen, Ammonia (as N)	mg/L	N/A	N/A	--		--	--	--	--	--	--	--	--	--	--	--	**0.51**	**0.61**	< 0.20
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--		--	--	< 0.050	< 0.050	--	--	--	--	--	--	--	< 0.500	< 0.0500	< 0.0500
Sulfate	mg/L	N/A	N/A	--		--	--	< 5.0	< 5.0	--	--	--	--	--	--	--	**1.85**	**1.44**	**1.67**
Sulfide	mg/L	N/A	N/A	--		--	--	**2.3**	**2.3**	--	--	--	--	--	--	--	**1.1**	< 1.0	< 1.0
Dissolved Manganese	mg/L	N/A	N/A	--		--	--	--	--	--	--	--	--	--	--	--	**1.02**	**0.941**	**0.941**
Total Manganese	mg/L	N/A	N/A	--		--	--	--	--	--	--	--	--	--	--	--	**1.02**	**0.989**	**0.987**
Ferrous Iron	mg/L	N/A	N/A	--		--	--	< 0.010	< 0.010	--	--	--	--	--	--	--	**4.6**	**5.4**	**4.7**
Total Iron	mg/L	N/A	N/A	--		--	--	**1.8**	**1.9**	--	--	--	--	--	--	--	**4.54**	**4.97**	**4.72**
Carbon Dioxide	mg/L	N/A	N/A	--		--	--	**0.76**	**0.88**	--	--	--	--	--	--	--	**110**	**130**	**140**
Methane	mg/L	N/A	N/A	--		--	--	**28**	**29**	--	--	--	--	--	--	--	**3,100**	**2100**	**2,600**
Dissolved Nitrogen	mg/L	N/A	N/A	--		--	--	**5.3**	**4.5**	--	--	--	--	--	--	--	**18**	**18**	**18**
Dissolved Oxygen	mg/L	N/A	N/A	--		--	--	**1.9**	**1.6**	--	--	--	--	--	--	--	**0.78**	**3.6**	**0.97**
Laboratory Results - Organic Constituents																			
Volatile Organic Compounds																			
Benzene	µg/L	5*	9	**1,700**	**2,700**	**570**	**1,700**	**3,900**	**3,800**	**4,600**	**4,700**	**6,100**	**6,000**	**2,600**	**6,500**	**6,400**	**6,900**	**5,700**	**7,300**
Carbon Disulfide	µg/L	329	1,700	< 5.0	< 5.0	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	**820**	**930**	**240**	**920**	**1,300**	**1,200**	**1,200**	**1,100**	**1,600**	**1,600**	**300**	**1,200**	**1,800**	**1,500**	**1,200**	**1,400**
Toluene	µg/L	1,000*	1,100	**380**	**1200**	**320**	**1,400**	**1,800**	**1,700**	**38**	**39**	**60**	**59**	**28**	**40**	**53**	**170**	**120**	**190**
Xylene	µg/L	31,000	200,000	**330**	**670**	**220**	**940**	**900**	**850**	**1,200**	**1,100**	**1,400**	**1,400**	**570**	**1,100**	**1,600**	**980**	**780**	**830**
Semivolatile Organic Compounds																			
Acenaphthene	µg/L	2,000*	6,100	**53**	**59**	**84**	--	--	--	--	--	--	--	--	--	--	**140**	**150**	**150**
Acenaphthylene	µg/L	470	3,100	**44**	**70**	**14**	--	--	--	--	--	--	--	--	--	--	**12**	< 10	< 10
Anthracene	µg/L	4,700	31,000	**9.6**	**14**	**13**	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	**0.73**	**2.0**	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	**0.15**	**1.4**	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	**0.20**	**1.2**	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	< 0.10	< 10	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	**0.057**	< 10	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	**0.53**	< 10	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 0.10	**0.13**	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	µg/L	700*	700*	< 10	< 10	< 21	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	**8.2**	**16**	**11**	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	**35**	**64**	**68**	--	--	--	--	--	--	--	--	--	--	**34**	**31**	**42**
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 0.050	**0.62**	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	< 10	< 10	< 21	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10
4-Methylphenol	µg/L	78	510	< 10	< 10	< 21	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	**3,800**	**3,000**	**1,800**	**9,300**	**5,100**	**5,300**	**4,400**	**4,300**	**3,600**	**3,600**	< 10	**5,800**	**6,600**	**5,400**	**4,800**	**5,800**
Phenanthrene	µg/L	470	3,100	**58**	**92**	**100**	--	--	--	--	--	--	--	--	--	--	**39**	**37**	**46**
Phenol	µg/L	9,390	61,000	**15**	**11**	< 10	--	--	--	--	--	--	--	--	--	--	**19**	< 10	**42**
Pyrene	µg/L	1,000*	3,100	**12**	**20**	**13**	--	--	--	--	--	--	--	--	--	--	< 10	< 10	< 10
Laboratory Results - Inorganic Constituents																			
Antimony	µg/L	6.3	400	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	< 40	< 40	< 40
Arsenic	µg/L	50*	50*	< 50	< 50	< 20	--	--	--	--	--	--	--	--	--	--	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	**1,009**	**910**	**550**	**500**	**160**	**170**	**3,470**	**3,510**	**3,410**	**3,480**	**3,430**	**3,430**	**2,720**	**2,720**	**2,730**	**2,660**
Beryllium	µg/L	31	200	< 10	< 10.0	< 4.0	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	< 10	< 10	< 20	< 20	< 20	< 20	< 10	< 10	< 10	< 10	**10.1**	< 10	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	< 20	< 20	**40**	**49**	< 40	< 40	< 10	< 10	< 10	< 10	< 20.0	< 10	< 10	< 20	< 20	< 20
Zinc	µg/L	4,700	31,000	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	< 20	< 20	< 20
Mercury	µg/L	2*	2*	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--	--	--	--	--	< 0.5	< 0.5	< 0.5
Total Cyanide	µg/L	310	2,000	**13**	**10**	**19**	--	< 10	10	< 10	< 10	< 10	< 10	< 10	**11**	< 10	< 10	**25**	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-112D																						
				2/22/2017	4/5/2016	2/16/2015	8/5/2014	2/17/2014	08/06/13	02/05/13	11/06/12	08/07/12	05/14/12	02/15/12	11/17/11	08/08/11	05/05/11	02/24/11	11/10/10	08/09/10	05/10/10	02/23/10	08/11/09	06/07/06	03/09/06	12/20/05	09/29/05	03/01/05
Groundwater Quality Parameters																										
pH	SU	N/A	N/A	9.22	9.70	9.77	9.12	8.95	10.26	10.93	10.75	9.91	10.59	10.40	10.72	10.08	10.67	10.98	10.43	8.86	10.83	11.03	11.43	11.01	11.09	11.01	10.60	6.89
Specific Conductance	µm/cm	N/A	N/A	287.40	301	306	304	288	296	390	366	382	389	318	372	391	426	355	327	435	427	407	536	558	585	422	464	489
Temperature	°Celsius	N/A	N/A	22.10	21.24	16.81	22.55	19.28	22.84	15.87	16.66	24.41	24.2	19.10	21.27	23.99	20.66	16.40	20.17	24.52	19.69	16.70	29.32	20.50	20.07	19.36	22.09	20.26
Dissolved Oxygen	mg/L	N/A	N/A	5.23	5.41	4.70	0.89	0.43	0.15	4.60	0.75	2.14	4.40	6.64	0.47	1.74	4.39	4.23	2.77	1.20	3.29	4.10	4.99	0.68	2.10	0.56	0.16	0.82
ORP	mV	N/A	N/A	71.10	34.9	146.3	-4.2	40.1	-70.3	101.7	55.7	7.4	15.3	-70.2	-100.9	9.3	-103.2	-32.4	-40.3	61.2	29.3	5.4	22.6	-102.1	-99.0	-92.4	-20.3	-423.6
Turbidity	NTU	N/A	N/A	1.43	6.21	7.99	1.45	1.22	1.01	1.43	1.27	7.20	2.08	3.29	4.00	5.06	9.17	6.89	3.15	2.37	1.24	4.92	0.75	2.98	2.14	3.16	16.04	8.78
Laboratory Results - Natural Attenuation Parameters																										
Nitrogen, Ammonia (as N)	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.20
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	**1.0**	--	< 0.25	--	**0.29**	--	--	--	**0.29**	--	--	--	**0.27**	--	--	--	**0.32**	**0.21**	--	--	--	--	< 0.0500
Sulfate	mg/L	N/A	N/A	--	--	**4.1**	--	**3.1**	--	< 5.0	--	--	--	< 5.0	--	--	--	**5.7**	--	--	--	**7.3**	**7.3**	--	--	--	--	**10.6**
Sulfide	mg/L	N/A	N/A	--	--	< 1.00	--	< 1.0	--	< 1.0	--	--	--	**1.8**	--	--	--	**1.2**	--	--	--	< 1.0	< 1.0	--	--	--	--	**1.1**
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.287**
Total Manganese	mg/L	N/A	N/A	--	--	--	--	< 0.100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.302**
Ferrous Iron	mg/L	N/A	N/A	--	--	< 0.100	--	< 0.100	--	< 0.10 HF	--	--	--	< 0.10 HF	--	--	--	< 0.010	--	--	--	< 0.010	< 0.010	--	--	--	--	**0.5**
Total Iron	mg/L	N/A	N/A	--	--	**0.266**	--	< 5.0	--	< 0.10	--	--	--	**0.10**	--	--	--	**0.16**	--	--	--	**0.26**	**0.27**	--	--	--	--	**1.09**
Carbon Dioxide	mg/L	N/A	N/A	--	--	< 5.0	--	< 1.0	--	< 5.0	--	--	--	< 0.050	--	--	--	< 0.050	--	--	--	**0.14**	< 0.050	--	--	--	--	**35**
Methane	mg/L	N/A	N/A	--	--	**6**	--	**5**	--	**5.4**	--	--	--	< 0.58	--	--	--	<0.58	--	--	--	**4.8**	**20**	--	--	--	--	**26**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	**20**	--	**18**	--	**18**	--	--	--	**5.2**	--	--	--	**4.2**	--	--	--	**3.9**	**4.5**	--	--	--	--	**19**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	**8.0**	--	**9.6**	--	**9.0**	--	--	--	**1.9**	--	--	--	**1.5**	--	--	--	**1.4**	**1.6**	--	--	--	--	**2.5**
Laboratory Results - Organic Constituents																										
Volatile Organic Compounds																										
Benzene	µg/L	5*	9	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	--	--	< 5.0	--	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	--	--	< 5.0	--	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 5.0	< 5.0	< 5.0	--	--	< 5.0	--	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																										
Acenaphthene	µg/L	2,000*	6,100	<0.50	< 0.50	< 10	< 10	< 10	< 10	< 0.21	< 0.22	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10
Acenaphthylene	µg/L	470	3,100	<1.0	< 1.0	< 10	< 10	< 10	< 10	< 0.21	< 0.22	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10
Anthracene	µg/L	4,700	31,000	<0.050	< 0.050	< 10	< 10	< 10	< 10	< 0.21	< 0.22	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.21	< 0.22	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.21	< 0.22	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.21	< 0.22	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	< 0.10	< 10	< 10	< 10	< 10	< 0.21	< 0.22	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	< 0.050	< 10	< 10	< 10	< 10	< 0.21	< 0.22	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	<0.050	< 0.050	< 10	< 10	< 10	< 10	< 0.21	< 0.22	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.21	< 0.22	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimehylphenol	µg/L	700*	700*	<10	< 10	< 10	< 10	< 10	< 10	< 2.1	< 2.2	< 1.9	< 2.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10
Fluoranthene	µg/L	1,000*	4,100	<0.10	< 0.10	< 10	< 10	< 10	< 10	< 0.21	< 0.22	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10
Fluorene	µg/L	1,000*	4,100	<0.10	< 0.10	< 10	< 10	< 10	< 10	< 0.21	< 0.22	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.21	< 0.22	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	<10	< 10	< 10	< 10	< 10	< 10	< 2.1	< 2.2	< 1.9	< 2.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	< 10	< 10	< 10	< 10	< 10	< 2.1	< 2.2	< 1.9	< 2.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10
Naphthalene	µg/L	20*	20*	<0.50	< 0.50	< 10	< 10	< 10	< 10	< 0.21	< 0.22	< 0.19	< 0.23	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<9.9	<9.8	< 10	< 10	< 10	< 10	< 10
Phenanthrene	µg/L	470	3,100	<0.050	< 0.050	< 10	< 10	< 10	< 10	< 0.21	< 0.22	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10
Phenol	µg/L	9,390	61,000	<10	< 10	< 10	< 10	< 10	< 10	< 1.1	< 1.1	< 0.95	< 1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10
Pyrene	µg/L	1,000*	3,100	<0.050	< 0.050	< 10	< 10	< 10	< 10	< 0.21	< 0.22	< 0.19	< 0.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10
Inorganic Constituents																										
Antimony	µg/L	6.3	40	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 40
Arsenic	µg/L	50*	50*	--	< 50	< 50	< 50	< 50	< 50	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50
Barium	µg/L	2,000	7,200	--	**179**	**218**	**152**	**225**	**93.4**	**110**	**110**	**130**	**100**	**100**	**130**	**120**	**150**	**130**	--	--	--	**95**	**111**	**179**	**163**	**185**	**211**	**550**
Beryllium	µg/L	31	200	--	< 10	< 10	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10
Copper	µg/L	630	4,100	--	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	< 20	< 20	< 10.0	< 10.0	< 10.0	< 10	< 10
Lead	µg/L	15*	15*	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10	< 10	< 10.0	< 10.0	< 10.0	< 10	< 10
Nickel	µg/L	100	2,000	--	< 20	< 20	< 20	< 20	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	--	--	--	< 40	< 40	< 20.0	< 20.0	< 20.0	< 10	< 20
Zinc	µg/L	4,700	31,000	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 20
Mercury	µg/L	2*	2*	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.5
Total Cyanide	µg/L	310	2,000	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**12**	< 10	--	--	--	< 10	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-113D																						
				2/22/2017	2/17/2015	8/5/2014	2/17/2014	08/05/13	02/04/13	11/06/12	08/06/12	05/14/12	02/13/12	11/16/11	08/09/11	05/04/11	02/24/11	11/09/10	08/09/10	05/10/09	02/24/10	08/11/09	06/06/06	03/10/06	12/21/05	09/29/05	03/25/05	03/01/05
Groundwater Quality Parameters																										
pH	SU	N/A	N/A	5.80	5.63	6.09	5.92	6.36	5.76	5.82	5.64	5.79	5.71	5.75	5.81	5.43	5.79	5.76	5.33	5.25	5.73	6.55	5.68	5.73	5.85	6.0	5.87	5.87
Specific Conductance	µm/cm	N/A	N/A	355.70	354	349	353	357	362	363	366	363	295	351	368	369	321	356	360	352	363	368	373	374	321	370	357	385
Temperature	°Celsius	N/A	N/A	22.17	15.85	23.30	21.42	25.35	18.82	19.51	27.04	24.98	19.98	23.81	25.79	22.04	19.16	24.04	27.65	21.26	17.13	25.47	23.37	18.78	17.41	23.61	21.69	22.41
Dissolved Oxygen	mg/L	N/A	N/A	0.20	1.14	0.41	7.06	0.14	0.36	1.30	1.56	0.84	5.86	0.70	0.86	0.31	1.07	0.15	0.19	0.62	2.32	2.89	0.33	0.46	1.43	0.20	0.07	1.01
ORP	mV	N/A	N/A	68.60	162.9	149.3	143.1	101.2	138.3	78.9	82.6	-125.7	11.9	126.7	87.5	-22.0	136.0	148.7	72.4	123.5	114.6	-171.4	126.3	151.4	157.0	69.1	184.5	134.5
Turbidity	NTU	N/A	N/A	1.10	0.63	1.32	0.37	0.19	0.64	0.31	1.29	1.15	0.86	1.09	1.94	0.70	6.6	0.21	0.71	0.54	1.03	0.29	0.42	0.35	0.23	0.5	2.46	31.0
Laboratory Results - Natural Attenuation Parameters																										
Nitrogen, Ammonia (as N)	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**1.99**
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--	< 0.25	--	< 0.050	--	--	--	**3.0**	--	--	--	< 0.050	--	--	--	**1.2**	< 0.050	--	--	--	--	--	< 0.0500
Sulfate	mg/L	N/A	N/A	--	--	--	**46**	--	**41**	--	--	--	**52**	--	--	--	**53**	--	--	--	**20**	**61**	--	--	--	--	--	**70.9**
Sulfide	mg/L	N/A	N/A	--	--	--	< 1.0	--	< 1.0	--	--	--	**1.2**	--	--	--	< 1.0	--	--	--	< 1.0	< 1.0	--	--	--	--	--	< 1.0
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**3.22**
Total Manganese	mg/L	N/A	N/A	--	--	--	< 0.100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**3.22**
Ferrous Iron	mg/L	N/A	N/A	--	--	--	< 0.100	--	0.29 HF	--	--	--	< 0.10 HF	--	--	--	**0.18**	--	--	--	**0.2**	**0.28**	--	--	--	--	--	**0.3**
Total Iron	mg/L	N/A	N/A	--	--	--	**110**	--	**0.40**	--	--	--	< 0.10	--	--	--	**0.29**	--	--	--	**0.25**	**0.38**	--	--	--	--	--	**2.86**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	< 1.0	--	**160**	--	--	--	**2.1**	--	--	--	**1.8**	--	--	--	**1.9**	**1.4**	--	--	--	--	--	**170**
Methane	mg/L	N/A	N/A	--	--	--	**25**	--	**32**	--	--	--	< 0.58	--	--	--	**8.2**	--	--	--	**25**	**37**	--	--	--	--	--	**140**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	**19**	--	**18**	--	--	--	**4.4**	--	--	--	**4.1**	--	--	--	**3.8**	**4.2**	--	--	--	--	--	**19**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	**10**	--	**7.1**	--	--	--	**1.5**	--	--	--	**1.4**	--	--	--	**1.3**	**1.4**	--	--	--	--	--	**1.9**
Laboratory Results - Organic Constituents																										
Volatile Organic Compounds																										
Benzene	µg/L	5*	9	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**6.5**
Carbon Disulfide	µg/L	329	1,700	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5.0
Total Xylenes	µg/L	31,000	200,000	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5.0
Semivolatile Organic Compounds																										
Acenaphthene	µg/L	2,000*	6,100	<0.50	< 10	< 10	< 10	< 10	< 0.25	< 0.22	< 0.22	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10
Acenaphthylene	µg/L	470	3,100	<1.0	< 10	< 10	< 10	< 10	< 0.25	< 0.22	< 0.22	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10
Anthracene	µg/L	4,700	31,000	**0.060**	< 10	< 10	< 10	< 10	< 0.25	< 0.22	< 0.22	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.25	< 0.22	< 0.22	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.25	< 0.22	< 0.22	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.25	< 0.22	< 0.22	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	< 10	< 10	< 10	< 10	< 0.25	< 0.22	< 0.22	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	< 10	< 10	< 10	< 10	< 0.25	< 0.22	< 0.22	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	<0.050	< 10	< 10	< 10	< 10	< 0.25	< 0.22	< 0.22	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.25	< 0.22	< 0.22	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimehylphenol	µg/L	700*	700*	<10	< 10	< 10	< 10	< 10	< 2.5	< 2.2	< 2.2	< 2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10
Fluoranthene	µg/L	1,000*	4,100	<0.10	< 10	< 10	< 10	< 10	< 0.25	< 0.22	< 0.22	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10
Fluorene	µg/L	1,000*	4,100	<0.10	< 10	< 10	< 10	< 10	< 0.25	< 0.22	< 0.22	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.25	< 0.22	< 0.22	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	<10	< 10	< 10	< 10	< 10	< 2.5	< 2.2	< 2.2	< 2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	< 10	< 10	< 10	< 10	< 2.5	< 2.2	< 2.2	< 2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10
Naphthalene	µg/L	20*	20*	<0.50	< 10	< 10	< 10	< 10	< 0.25	< 0.22	< 0.22	< 0.22	< 5.0	< 5.0	< 5.0	5.0	< 5.0	< 5.0	< 5.0	< 5.0	<9.4	<9.8	< 10	< 10	< 10	< 10	**9.1**	**24**
Phenanthrene	µg/L	470	3,100	<0.050	< 10	< 10	< 10	< 10	< 0.25	< 0.22	< 0.22	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10
Phenol	µg/L	9,390	61,000	<10	< 10	< 10	< 10	< 10	< 1.3	< 1.1	< 1.1	< 1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10
Pyrene	µg/L	1,000*	3,100	<0.050	< 10	< 10	< 10	< 10	< 0.25	< 0.22	< 0.22	< 0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10
Inorganic Constituents																										
Antimony	µg/L	6.3	40	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 40
Arsenic	µg/L	50*	50*	--	< 50	< 50	< 50	< 50	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50
Barium	µg/L	2,000	7,200	--	**75**	**80.3**	**72.7**	**72.3**	**65**	**110**	**67**	**72**	**48**	**72**	**71**	**84**	**65**	--	--	--	**65**	**69**	**63.8**	**60.9**	**47**	**65.0**	--	**87.7**
Beryllium	µg/L	31	200	--	< 10	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	--	< 10
Copper	µg/L	630	4,100	--	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	**27**	< 20	< 20	< 20	< 20	--	--	--	< 20	< 20	< 10	< 10	< 10	< 10	--	**14.2**
Lead	µg/L	15*	15*	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10	< 10.0	< 10	< 10	< 10	< 10	--	< 10
Nickel	µg/L	100	2,000	--	< 20	< 20	< 20	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	--	--	--	< 40	< 40	< 20	< 20	< 20	< 10	--	< 20
Zinc	µg/L	4,700	31,000	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**68.4**
Mercury	µg/L	2*	2*	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.5
Total Cyanide	µg/L	310	2,000	--	< 10	< 10	< 10	< 10	< 10	**10**	**15**	**11**	< 10	--	--	--	**10**	--	--	--	< 10	< 10	< 10	< 10	< 10	10	--	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-114D							
				04/29/15	02/25/10	08/13/09	06/07/06	03/09/06	12/22/05	09/29/05	03/01/05
Field Groundwater Quality Parameters											
pH	SU	N/A	N/A	7.9	9.51	9.99	7.12	7.00	7.26	7.77	7.02
Specific Conductance	µm/cm	N/A	N/A	395	291	383	500	432	422	431	462
Temperature	°Celsius	N/A	N/A	20.12	19.01	29.57	26.90	20.57	22.10	24.89	20.89
Dissolved Oxygen	mg/L	N/A	N/A	6.23	7.22	5.85	0.37	0.45	0.31	0.09	0.72
ORP	mV	N/A	N/A	-29.8	23.2	-169.8	-154.2	-157.9	162.3	142.6	-86.9
Turbidity	NTU	N/A	N/A	1.45	0.7	0.98	0.74	2.6	3.11	3.94	23.1
Laboratory Results - Natural Attenuation Parameters											
Nitrogen, Ammonia (as N)	mg/L	N/A	N/A	--	--		--	--	--	--	< 0.20
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	< 0.050	**0.93**	--	--	--	--	< 0.500
Sulfate	mg/L	N/A	N/A	--	**20**	**20**	--	--	--	--	**4.54**
Sulfide	mg/L	N/A	N/A	--	< 1.0	< 1.0	--	--	--	--	< 1.0
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	**0.809**
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	**0.845**
Ferrous Iron	mg/L	N/A	N/A	--	< 0.010	< 0.010	--	--	--	--	**2.4**
Total Iron	mg/L	N/A	N/A	--	< 0.010	< 0.010	--	--	--	--	**2.85**
Carbon Dioxide	mg/L	N/A	N/A	--	< 0.050	< 0.050	--	--	--	--	**18**
Methane	mg/L	N/A	N/A	--	**1.2**	**1.2**	--	--	--	--	**99**
Dissolved Nitrogen	mg/L	N/A	N/A	--	**3.9**	**4.6**	--	--	--	--	**22**
Dissolved Oxygen	mg/L	N/A	N/A	--	**1.5**	**1.7**	--	--	--	--	**1.9**
Laboratory Results - Organic Constituents											
Volatile Organic Compounds											
Benzene	µg/L	5*	9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**5.2**
Carbon Disulfide	µg/L	329	1,700	< 5.0	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds											
Acenaphthene	µg/L	2,000*	6,100	< 10	--	--	--	--	--	--	< 10
Acenaphthylene	µg/L	470	3,100	< 10	--	--	--	--	--	--	< 10
Anthracene	µg/L	4,700	31,000	< 10	--	--	--	--	--	--	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	< 0.050	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	< 0.050	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	< 0.10	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	< 10	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 10	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	< 10	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 0.10	--	--	--	--	--	--	--
2,4-Dimehylphenol	µg/L	700*	700*	< 10	--	--	--	--	--	--	< 10
Fluoranthene	µg/L	1,000*	4,100	< 10	--	--	--	--	--	--	< 10
Fluorene	µg/L	1,000*	4,100	< 10	--	--	--	--	--	--	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 0.050	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	< 10	--	--	--	--	--	--	< 10
3 & 4 Methylphenol	µg/L	78	510	< 10	--	--	--	--	--	--	< 10
Naphthalene	µg/L	20*	20*	< 10	< 10	<9.4	< 10	< 10	< 10	< 10	**88**
Phenanthrene	µg/L	470	3,100	< 10	--	--	--	--	--	--	< 10
Phenol	µg/L	9,390	61,000	< 10	--	--	--	--	--	--	< 10
Pyrene	µg/L	1,000*	3,100	< 10	--	--	--	--	--	--	< 10
Inorganic Constituents											
Antimony	µg/L	6.3	40	< 20	--	--	--	--	--	--	< 40
Arsenic	µg/L	50*	50*	< 50	--	--	--	--	--	--	< 50
Barium	µg/L	2,000	7,200	**493**	**140**	**140**	**558**	**613**	**636**	**763**	**1,260**
Beryllium	µg/L	31	200	< 10	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	< 5.0	--	--	--	--	--	--	--
Cadmium	µg/L	100	310	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	< 20	< 40	< 40	< 20	< 20	< 20	< 10	< 20
Zinc	µg/L	4,700	31,000	< 20	--	--	--	--	--	--	**147**
Mercury	µg/L	2*	2*	< 0.20	--	--	--	--	--	--	< 0.5
Total Cyanide	µg/L	310	2,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; ther Exceeds Type 2 RRS (only indicated for off-site wells)
ft AMSL - feet Above Mean Sea Level Exceeds Type 4 RRS
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-115D (Abandoned)																	
				08/05/14	02/20/14	08/06/13	02/07/13	11/08/12	08/08/12	05/14/12	02/13/12	11/16/11	08/11/11	05/05/11	02/24/11	11/09/10	11/10 DUP	08/10/10	05/11/10	02/24/10	2/10 DUP
Field Groundwater Quality Parameters																					
pH	SU	N/A	N/A	7.22	7.38	6.66	7.37	7.47	7.33	7.53	7.56	7.88	7.98	8.69	8.70	7.71		6.49	9.09	10.45	
Specific Conductance	µm/cm	N/A	N/A	257	344	217	228	258	256	244	198	213	222	225	222	208		200	209	235	
Temperature	°Celsius	N/A	N/A	24.47	22.62	23.70	13.83	22.04	24.15	23.00	19.84	22.03	25.82	20.28	21.23	23.64		24.65	22.71	17.06	
Dissolved Oxygen	mg/L	N/A	N/A	0.42	0.40	1.77	2.23	0.66	0.65	1.24	4.39	0.22	0.48	0.34	0.27	0.17		0.22	0.86	1.58	
ORP	mV	N/A	N/A	34.4	-33.5	-68.6	20.1	-26	-9.5	65.7	-88.1	-169.4	119.4	-91.3	-46.1	-154.3		11.1	-57.4	-134.4	
Turbidity	NTU	N/A	N/A	0.00	9.47	1.47	2.06	1.27	2.99	0.93	2.42	4.16	9.89	1.09	5.24	0.76		0.62	1.79	0.50	
Laboratory Results - Natural Attenuation Parameters																					
Nitrogen, Ammonia (as N)	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	< 0.25	--	< 0.050	--	--	--	< 0.050	--	--	--	< 0.050	--	--	--	--	**0.2**	< 0.050
Sulfate	mg/L	N/A	N/A	--	**19**	--	< 5.0	--	--	--	< 5.0	--	--	--	< 5.0	--	--	--	--	< 5.0	< 5.0
Sulfide	mg/L	N/A	N/A	--	< 1.0	--	< 1.0	--	--	--	< 1.0	--	--	--	**2.1**	--	--	--	--	< 1.0	< 1.0
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Manganese	mg/L	N/A	N/A	--	< 0.100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ferrous Iron	mg/L	N/A	N/A	--	**0.727**	--	< 0.10 HF	--	--	--	< 0.10 HF	--	--	--	< 0.010	--	--	--	--	< 0.010	< 0.010
Total Iron	mg/L	N/A	N/A	--	**6.9**	--	**0.27**	--	--	--	**1.0**	--	--	--	**1.9**	--	--	--	--	**0.16**	**0.17**
Carbon Dioxide	mg/L	N/A	N/A	--	< 1.0	--	**7.5**	--	--	--	**0.052**	--	--	--	< 0.050	--	--	--	--	< 0.050	< 0.050
Methane	mg/L	N/A	N/A	--	**83**	--	**21**	--	--	--	**9.9**	--	--	--	<0.58	--	--	--	--	<0.19	<0.19
Dissolved Nitrogen	mg/L	N/A	N/A	--	**18**	--	--	--	--	--	**4.7**	--	--	--	**4.7**	--	--	--	--	**3.1**	**3.5**
Dissolved Oxygen	mg/L	N/A	N/A	--	**3.9**	--	**7.6**	--	--	--	**1.6**	--	--	--	**1.6**	--	--	--	--	**1.2**	**1.3**
Laboratory Results - Organic Constituents																					
Volatile Organic Compounds																					
Benzene	µg/L	5*	9	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	**11**	8.9	5.6	< 5.0	**15**	**15**	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	**9.8**	< 5.0	< 5.0	< 5.0	--	--	--	--	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	**9.2**	**13**	**7.6**	< 5.0	--	--	--	--	< 5.0	< 5.0
Semivolatile Organic Compounds																					
Acenaphthene	µg/L	2,000*	6,100	< 10	< 10	< 10	< 0.24	< 0.21	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	µg/L	470	3,100	< 10	< 10	< 10	< 0.24	< 0.21	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--
Anthracene	µg/L	4,700	31,000	< 10	< 10	< 10	< 0.24	< 0.21	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]anthracene	µg/L	1.17	3.92	< 0.050	**0.24**	< 0.20	< 0.24	< 0.21	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	< 0.050	**0.47**	< 0.20	< 0.24	< 0.21	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	< 0.10	0.33	< 0.20	< 0.24	< 0.21	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	< 10	< 10	< 10	< 0.24	< 0.21	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 10	< 10	< 10	< 0.24	< 0.21	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	< 10	< 10	< 10	< 0.24	< 0.21	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 0.10	**0.63**	< 0.20	< 0.24	< 0.21	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimehylphenol	µg/L	700*	700*	< 10	< 10	< 10	< 2.4	< 2.1	< 1.9	< 2.2	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	µg/L	1,000*	4,100	< 10	< 10	< 10	< 0.24	< 0.21	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--
Fluorene	µg/L	1,000*	4,100	< 10	< 10	< 10	< 0.24	< 0.21	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 0.050	**0.53**	< 0.20	< 0.24	< 0.21	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	< 10	< 10	< 10	< 2.4	< 2.1	< 1.9	< 2.2	--	--	--	--	--	--	--	--	--	--	--
3 & 4 Methylphenol	µg/L	78	510	< 10	< 10	< 10	< 2.4	< 2.1	< 1.9	< 2.2	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	20*	20*	< 10	< 10	< 10	0.24	< 0.21	< 0.19	< 0.22	< 5.0	14	5.2	< 5.0	< 5.0	**54**	**57**	**7.7**	< 5.0	< 9.7	< 9.7
Phenanthrene	µg/L	470	3,100	< 10	< 10	< 10	< 0.24	< 0.21	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--	--
Phenol	µg/L	9,390	61,000	< 10	< 10	< 10	< 1.2	< 1.0	< 0.95	< 1.1	--	--	--	--	--	--	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	< 10	< 10	< 10	< 0.24	< 0.21	< 0.19	< 0.22	--		--	--	--	--	--	--	--	--	--
Inorganic Constituents																					
Antimony	µg/L	6.3	40	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	50*	50*	< 50	< 50	< 50	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	2,000	7,200	**2,490**	**80**	**1,430**	**1,400**	**1,800**	**1,800**	**1,400**	**1,400**	**1,500**	**1,300**	**1,200**	**1,200**	--	--	--	--	**930**	**930**
Beryllium	µg/L	31	200	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	100	310	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	--	< 10	< 10
Copper	µg/L	630	4,100	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	< 20	< 20
Lead	µg/L	15*	15*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	--	< 10	< 10
Nickel	µg/L	100	2,000	< 20	< 20	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	--	--	--	--	< 40	< 40
Zinc	µg/L	4,700	31,000	**36**	< 20	< 20	< 20	**22**	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	2*	2*	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--	--	--	--	--	--
Total Cyanide	µg/L	310	2,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10	--	--	--	--	**17**	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-200DR																					
				8/15/2017	2/24/2017	8/23/2016	4/7/2016	8/12/2015	8/15 DUP	2/17/2015	2/15 DUP	8/7/2014	2/20/2014	08/07/13	02/08/13	11/07/12	08/08/12	05/17/12	02/16/12	11/18/11	08/11/11	05/04/11	04/18/11	11/09/10	08/10/10	05/11/10	02/24/10
Field Groundwater Quality Parameters																									
pH	SU	N/A	N/A	6.45	6.53	6.49	6.77	6.33		6.68		7.41	6.75	6.23	6.61	6.44	6.36	6.88	6.43	6.61	6.50	6.06	6.26	6.55	6.42	6.33	6.42
Specific Conductance	µm/cm	N/A	N/A	561.90	454.2	536.3	590	529		488		633	569	526	452	510	576	526	535	509	515	512	558	519	506	550	534
Temperature	°Celsius	N/A	N/A	27.85	21.06	26.51	24.09	25.23		17.44		25.53	22.50	24.75	18.74	22.76	27.09	23.94	23.15	20.28	26.67	23.60	23.78	25.94	28.69	26.09	17.09
Dissolved Oxygen	mg/L	N/A	N/A	0.20	0.21	0.24	0.36	0.12		2.38		0.51	0.36	0.21	1.10	0.06	0.66	0.71	0.28	0.59	1.38	0.05	1.04	0.10	0.24	0.73	3.66
ORP	mV	N/A	N/A	-54.85	-58.8	-114.4	-866.7	-180.4		94.7		-85.9	-99.2	-137.6	2.7	-89	-46.4	-75.6	-45.8	-90.7	-64.5	-113.4	-106.0	-260.1	-108.9	-110.5	-85.5
Turbidity	NTU	N/A	N/A	0.43	1.51	1.4	4.38	0.7		1.22		4.19	1.22	0.45	3.5	1.61	2.36	2.97	1.40	3.91	2.00	1.25	3.07	4.01	0.17	2.55	2.35
Laboratory Results - Natural Attenuation Parameters																									
Nitrogen, Ammonia (as N)	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	< 0.25	--	**0.073 ***	--	--	--	< 0.050	--	--	--	< 0.050	--	--	--	< 0.050
Sulfate	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	< 1.0	--	< 5.0	--	--	--	< 5.0	--	--	--	< 5.0	--	--	--	**5.6**
Sulfide	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	< 1.0	--	< 1.0	--	--	--	**1.6**	--	--	--	**7.5**	--	--	--	< 1.0
Dissolved Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Manganese	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	**0.618**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	**4.48**	--	0.83 HF	--	--	--	0.84 HF	--	--	--	**0.68**	--	--	--	**1.3**
Total Iron	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	**97**	--	**6.9**	--	--	--	**4.3**	--	--	--	**4.3**	--	--	--	**4.8**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	< 1.0	--	**120**	--	--	--	**1.4**	--	--	--	**1.1**	--	--	--	**1.1**
Methane	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	**1600**	--	**1100**	--	--	--	**1400**	--	--	--	**460**	--	--	--	**770**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	**21**	--	--	--	--	--	**5.5**	--	--	--	**4.3**	--	--	--	**4.1**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	**2.3**	--	**4.4**	--	--	--	**1.8**	--	--	--	**1.3**	--	--	--	**1.3**
Laboratory Results - Organic Constituents																											
Volatile Organic Compounds																											
Benzene	µg/L	5*	9	**130**	**110**	**85**	**29**	**36**	**34**	< 5.0	< 5.0	**19**	**7.5**	**14**	**3.9**	**2.3**	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**26**
Carbon Disulfide	µg/L	329	1,700	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	**55**	**58**	**40**	**20**	**26**	**24**	< 5.0	< 5.0	**8.1**	< 5.0	**5.3**	< 1.0	**16**	< 1.0	< 1.0	< 5.0	< 5.0	**5.6**	< 5.0	< 5.0	--	--	--	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**16**	< 5.0	< 5.0	< 1.0	**4.7**	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	< 5.0
Total Xylenes	µg/L	31,000	200,000	<5.0	**5.2**	**8.0**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**7.2**	< 5.0	< 5.0	**2.0**	**13**	**2.0**	< 2.0	< 5.0	< 5.0	< 5.0	**6.0**	< 5.0	--	--	--	**6.8**
Semivolatile Organic Compounds																											
Acenaphthene	µg/L	2,000*	6,100	**19**	**28**	**24**	**1.5**	**5.0**	< 0.50	< 10	< 10	**14**	**21**	**35**	**81**	**25**	**25**	**15**	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	µg/L	470	3,100	**1.7**	**2.2**	**26**	< 1.0	< 1.0	< 1.0	< 10	< 10	< 10	< 10	< 10	**4.9**	**2.8**	**2.8**	**1.8**	--	--	--	--	--	--	--	--	--	--
Anthracene	µg/L	4,700	31,000	**1.0**	**1.9**	**3.6**	**0.069**	**0.058**	< 0.050	< 10	< 10	< 10	< 10	< 10	**6.5**	**0.47**	**0.38**	< 0.22	--	--	--	--	--	--	--	--	--	--
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	**0.065**	**0.080**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.052	0.12	< 0.20	< 1.9	< 0.20	< 0.20	< 0.22	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.12	< 0.20	< 1.9	< 0.20	< 0.20	< 0.22	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.11	< 0.20	< 1.9	< 0.20	< 0.20	< 0.22	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 10	< 10	< 10	< 10	< 10	< 1.9	< 0.20	< 0.20	< 0.22	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 10	< 10	< 10	< 10	< 10	< 1.9	< 0.20	< 0.20	< 0.22	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	<0.050	<0.050	0.056	< 0.050	< 0.050	< 0.050	< 10	< 10	< 10	< 10	< 10	< 1.9	< 0.20	< 0.20	< 0.22	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	**0.15**	< 0.20	< 1.9	< 0.20	< 0.20	< 0.22	--	--	--	--	--	--	--	--	--	--
2,4-Dimehylphenol	µg/L	700*	700*	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 19	< 2.0	< 2.0	< 2.2	--	--	--	--	--	--	--	--	--	--
Fluoranthene	µg/L	1,000*	4,100	**1.6**	**3.0**	**1.3**	**0.7**	**2.0**	< 0.10	< 10	< 10	< 10	< 10	< 10	**5.2**	**2.9**	**2.7**	**1.6**	--	--	--	--	--	--	--	--	--	--
Fluorene	µg/L	1,000*	4,100	**16**	**20**	**12**	**1.40**	**0.79**	< 0.10	< 10	< 10	**10**	**15**	**26**	**25**	**18**	**20**	**11**	--	--	--	--	--	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.11	< 0.20	< 1.9	< 0.20	< 0.20	< 0.22	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 19	< 2.0	< 2.0	< 2.2	--	--	--	--	--	--	--	--	--	--
3 & 4 Methylphenol	µg/L	78	510	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 19	< 2.0	< 2.0	< 2.2	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	20*	20*	**540**	**680**	**390**	< 0.50	< 0.50	< 0.50	< 10	< 10	< 10	**140**	**160**	**2,300**	**140**	**4.6**	**2.0**	**5.6**	< 5.0	**48**	**100**	**33**	**24**	**27**	**6.3**	**25**
Phenanthrene	µg/L	470	3,100	**3.1**	**5.4**	**27**	**0.055**	**0.077**	< 0.050	< 10	< 10	< 10	< 10	< 10	**39**	**1.2**	< 0.20	< 0.22	--	--	--	--	--	--	--	--	--	--
Phenol	µg/L	9,390	61,000	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 9.7	< 0.99	< 0.98	< 1.1	--	--	--	--	--	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	**1.9**	**3.1**	**1.3**	**0.5**	**2.3**	< 0.050	< 10	< 10	< 10	< 10	< 10	**7.6**	**2.9**	**3.2**	**1.9**	--	--	--	--	--	--	--	--	--	--
Inorganic Constituents																											
Antimony	µg/L	6.3	40	--	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	50*	50*	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	2,000	7,200	--	--	**1,270**	**1,190**	**1,730**	**1,710**	**682**	**738**	**938**	**948**	**1,230**	**3,200**	**900**	**810**	**690**	**750**	**810**	**730**	**810**	**670**	--	--	--	**540**
Beryllium	µg/L	31	200	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	100	310	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10
Copper	µg/L	630	4,100	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	< 20
Lead	µg/L	15*	15*	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10
Nickel	µg/L	100	2,000	--	--	**61.6**	**37**	< 20	< 20	< 20	< 20	< 20	< 20	< 20	**160**	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	--	--	--	< 40
Zinc	µg/L	4,700	31,000	--	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	2*	2*	--	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--	--	--	--	--
Total Cyanide	µg/L	310	2,000	--	--	< 10.0	**16**	< 10.0	**43**	**34**	**34**	**21**	**54**	**43**	< 10	**61**	**54**	**24**	**42**	--	--	--	**54**	--	--	--	**42**

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-204D										
				08/15/17	8/17 DUP	02/24/17	08/24/16	04/07/16	4/16 DUP	08/12/15	02/17/15	2/15 DUP	08/06/14	02/20/14
Field Groundwater Quality Parameters														
pH	SU	N/A	N/A	6.38		6.22	6.38	6.41		6.31	6.31		6.36	6.49
Specific Conductance	µm/cm	N/A	N/A	474.37		487.3	502	500		453	494		518	525.000
Temperature	°Celsius	N/A	N/A	26.79		23.43	26.28	21.69		25.06	16.20		25.15	23.12
Dissolved Oxygen	mg/L	N/A	N/A	0.30		0.21	0.41	0.39		0.26	2.03		0.57	0.41
ORP	mV	N/A	N/A	-18.91		-16.8	-52.3	-27.77		-101.5	-52.3		-63.5	-89.6
Turbidity	NTU	N/A	N/A	1.18		1.81	0.5	4.36		0.36	1.15		0.93	0.51
Laboratory Results - Natural Attenuation Parameters														
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	< 0.25
Sulfate	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	< 1.0
Sulfide	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	< 1.0
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	**0.621**
Total Iron	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	**2.88**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	**75**
Methane	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	**790**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	**18**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	--	--	**4.7**
Laboratory Results - Organic Constituents														
Volatile Organic Compounds														
Benzene	µg/L	5*	9	**460**	**460**	**490**	**460**	**450**	**430**	**300**	**500**	**470**	**310**	**310**
Carbon Disulfide	µg/L	329	1,700	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/L	700*	2,300	**330**	**330**	**340**	**310**	**330**	**290**	**230**	**440**	**430**	**260**	**210**
Toluene	µg/L	1,000*	1,100	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	**26**	**27**	**19**	**19**	**35**	**31**	**19**	**46**	**48**	**30**	**36**
Semivolatile Organic Compounds														
Acenaphthene	µg/L	2,000*	6,100	**75**	**61**	**50**	**57**	**60**	**58**	**58**	**71**	**74**	**66**	**28**
Acenaphthylene	µg/L	470	3,100	**3.3**	**3.3**	**2.3**	**2.6**	**3.1**	**2.4**	**3.0**	< 10	< 10	< 10	< 10
Anthracene	µg/L	4,700	31,000	**4.6**	**4.4**	**4.1**	**3.5**	**3.5**	**3.3**	**4.1**	< 10	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	**0.13**	**0.13**	**0.12**	**0.140**	**0.073**	**0.071**	**0.110**	**0.10**	**0.11**	**0.11**	**0.11**
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	**0.11**
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 10	< 10	< 10	< 10
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 10	< 10	< 10	< 10
Chrysene	µg/L	117	392	**0.094**	**0.094**	0.081	0	< 0.050	< 0.050	0.070	< 10	< 10	< 10	< 10
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,4-Dimehylphenol	µg/L	700*	700*	<10	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	**4.5**	**4.4**	**4.0**	**3.8**	**3.2**	**3.1**	**4.4**	< 10	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	**30**	**25**	**17**	**21**	**19**	**19**	**17**	**27**	**28**	**29**	**12**
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Methylphenol	µg/L	780	5,100	<10	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	**3,000**	**2,600**	**2,000**	**2,300**	**1,700**	**150 E**	**1,100**	**1,400**	**2500**	**1500**	**770**
Phenanthrene	µg/L	470	3,100	**29**	**24**	**20**	**22**	**19**	**20**	**20**	**23**	**27**	**22**	< 10
Phenol	µg/L	9,390	61,000	<10	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	**4.6**	**5.7**	**4.5**	**4.2**	**3.8**	**3.6**	**5**	< 10	< 10	< 10	< 10
Inorganic Constituents														
Antimony	µg/L	6.3	40	--	--	--	<0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Arsenic	µg/L	50*	50*	--	--	--	<0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Barium	µg/L	2,000	7,200	--	--	--	**4.70**	**4.71**	**4.70**	**4.95**	**4.97**	**5.18**	**4.56**	**4.01**
Beryllium	µg/L	31	200	--	--	--	<0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Cadmium	µg/L	7.8	51	--	--	--	<0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Chromium	µg/L	100	310	--	--	--	<0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	**0.0241**
Copper	µg/L	630	4,100	--	--	--	<0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Lead	µg/L	15*	15*	--	--	--	<0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Nickel	µg/L	100	2,000	--	--	--	**0.0830**	**0.0885**	**0.0854**	**0.0325**	**0.0602**	**0.0637**	< 0.0200	**0.0584**
Zinc	µg/L	4,700	31,000	--	--	--	<0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Mercury	µg/L	2*	2*	--	--	--	<0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Total Cyanide	µg/L	310	2,000	--	--	--	**0.029**	< 0.010	< 0.010	**0.022**	**0.023**	**0.022**	**0.032**	**0.029**

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-205D																	
				08/15/17	8/17 DUP	02/24/17	2/17 DUP	08/24/16	8/16 DUP	04/07/16	08/12/15	02/16/15	08/06/14	02/19/14	02/14 DUP	08/06/13	08/13 DUP	02/07/13	02/13 DUP	11/07/12	11/12 DUP
Field Groundwater Quality Parameters																					
pH	SU	N/A	N/A	6.54		6.54		6.54		6.71	6.60	6.81	7.38	6.79		6.20		6.89		6.70	
Specific Conductance	µm/cm	N/A	N/A	673.0		673.0		727.0		580	740	855	869	485		770		625		794	
Temperature	°Celsius	N/A	N/A	22.92		22.92		26.10		18.30	26.72	18.66	23.60	21.24		25.48		17.75		18.64	
Dissolved Oxygen	mg/L	N/A	N/A	0.12		0.12		0.53		0.42	0.28	2.01	0.35	0.30		1.38		0.47		0.53	
ORP	mV	N/A	N/A	-55.1		-55.1		-75.3		-65.2	-163.5	-90.1	-68.9	-82.0		-184.4		-90.6		-17.8	
Turbidity	NTU	N/A	N/A	0.90		0.90		0.9		0.88	2.67	3.41	5.79	1.16		1.87		2.72		0.78	
Laboratory Results - Natural Attenuation Parameters																					
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	< 2.5	--	< 2.5	< 2.5	--	--	< 0.050	< 0.050	--	--
Sulfate	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	< 10	--	< 10	< 10	--	--	< 5.0	< 5.0	--	--
Sulfide	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	< 1.00	--	< 1.0	< 1.0	--	--	< 1.0	< 1.0	--	--
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**0.844**	--	< 0.100	< 0.100	--	--	< 0.10 HF	< 0.10 HF	--	--
Total Iron	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**4.37**	--	**3.23**	**3.25**	--	--	**4.8**	**4.9**	--	--
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**77**	--	**49**	**48**	--	--	**93**	**88**	--	--
Methane	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**3000**	--	**1700**	**2000**	--	--	**2600**	**2100**	--	--
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**20**	--	**15**	**16**	--	--	--	--	--	--
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**4.7**	--	**3.9**	**3.9**	--	--	**2.0**	**2.8**	--	--
Laboratory Results - Organic Constituents																					
Volatile Organic Compounds																					
Benzene	µg/L	5*	9	**5,600**	**5,400**	**4,300**	**4,300**	**5200**	**5,400**	**5,100**	**5,200**	**4,400**	**6,700**	**1,700**	**1,600**	**5,700**	**5,400**	**3,400**	**4,000**	**3,300**	**3,200**
Carbon Disulfide	µg/L	329	1,700	<5.0	<5.0	<5.0	<5.0	<250	<5.0	< 5.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 250	< 100	< 100	< 100	< 40
Ethylbenzene	µg/L	700*	2,300	**1,400**	**1,300**	**860**	**950**	**930**	**930**	**990**	**1,100**	**990**	**1,200**	**330**	**320**	**1,400**	**1,200**	**820**	**890**	**930**	**890**
Toluene	µg/L	1,000*	1,100	**<250**	**<250**	**12**	**14.0**	<250	7.6	< 50	< 250	**12**	< 5.0	< 5.0	< 5.0	< 250	< 250	< 50	< 50	< 50	< 20
Total Xylenes	µg/L	31,000	200,000	**400**	**320**	**580**	**420**	**410**	**430**	**620**	**580**	**560**	**720**	**300**	**290**	**960**	**820**	**400**	**460**	**250**	**240**
Semivolatile Organic Compounds																					
Acenaphthene	µg/L	2,000*	6,100	**110**	**150**	**120**	**140**	**150**	**130**	**140**	**160**	**130**	**200**	**54**	**57**	**220**	**200**	**89**	**95**	**150**	**170**
Acenaphthylene	µg/L	470	3,100	**1.3**	**1.3**	**1.4**	<1.0	**1.7**	**1.7**	**1.7**	**1.8**	< 10	< 10	< 10	< 10	< 10	< 10	< 2.0	< 2.0	< 2.3	< 0.21
Anthracene	µg/L	4,700	31,000	**4.8**	**5.1**	**5.3**	**4.9**	**6.1**	**5.9**	**4.5**	**5.6**	< 10	< 10	< 10	< 10	< 10	< 10	**2.9**	**3.1**	**4.4**	**4.4**
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.20	< 2.0	< 2.0	< 2.3	< 0.21
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	<0.050	<0.050	<0.050	<0.050	0.092	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.20	< 2.0	< 2.0	< 2.3	< 0.21
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 2.0	< 2.0	< 2.3	< 0.21
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	< 0.10	< 0.10	< 10	< 10	< 10	< 10	< 10	< 10	< 2.0	< 2.0	< 2.3	< 0.21
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 10	< 10	< 10	< 10	< 10	< 10	< 2.0	< 2.0	< 2.3	< 0.21
Chrysene	µg/L	117	392	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 10	< 10	< 10	< 10	< 10	< 10	< 2.0	< 2.0	< 2.3	< 0.21
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 2.0	< 2.0	< 2.3	< 0.21
2,4-Dimehylphenol	µg/L	700*	700*	<10	<10	<10	<10	<10	<10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 23	< 2.1
Fluoranthene	µg/L	1,000*	4,100	**1.3**	**1.4**	**1.6**	**1.6**	**1.5**	**1.6**	**1.0**	**1.3**	< 10	< 10	< 10	< 10	< 10	< 10	< 2.0	< 2.0	< 2.3	**1.1**
Fluorene	µg/L	1,000*	4,100	**31**	**39**	**29**	**34**	**39**	**33**	**29**	**34**	**31**	**47**	**13**	**13**	**43**	**44**	**24**	**26**	**34**	**38**
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.20	< 2.0	< 2.0	< 2.3	< 0.21
2-Methylphenol	µg/L	780	5,100	<10	<10	<10	<10	<10	<10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 23	< 2.1
3 & 4 Methylphenol	µg/L	78	510	<10	<10	<10	<10	<10	<10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 23	< 2.1
Naphthalene	µg/L	20*	20*	**5,700**	**6,800**	**3,400**	**3,700**	**6,400**	**6,200**	**4,900**	**4,600**	**4,200**	**6,000**	< 10	< 10	**8,100**	**7,500**	**1,500**	**1,700**	**6,400**	**5,700**
Phenanthrene	µg/L	470	3,100	**29**	**37**	**31**	**37**	**39**	**34**	**30**	**35**	**29**	**44**	**11**	**11**	**43**	**43**	**20**	**22**	**34**	**39**
Phenol	µg/L	9,390	61,000	<10	<10	<10	<10	<10	<10	18	< 50	< 10	18	26	23	< 10	< 10	< 10	< 9.9	**11**	**14**
Pyrene	µg/L	1,000*	3,100	**1.6**	**1.6**	**1.7**	**1.5**	**1.6**	**1.7**	**1.1**	**1.4**	< 10	< 10	< 10	< 10	< 10	< 10	< 2.0	< 2.0	< 2.3	**1.1**
Inorganic Constituents																					
Antimony	µg/L	6.3	40	--	--	--	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Arsenic	µg/L	50*	50*	--	--	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 20	< 20	< 20	< 20
Barium	µg/L	2,000	7,200	--	--	--	--	**3150**	**3080**	**3,080**	**3,130**	**3,160**	**3,020**	**2,130**	**2,150**	**3,790**	**3,900**	**3,200**	**3,300**	**3,100**	**3,000**
Beryllium	µg/L	31	200	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0
Cadmium	µg/L	7.8	51	--	--	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium	µg/L	100	310	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20
Lead	µg/L	15*	15*	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	--	--	--	**73.1**	**68.4**	**43.4**	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 40	< 40	< 40	< 40
Zinc	µg/L	4,700	31,000	--	--	--	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Mercury	µg/L	2*	2*	--	--	--	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Total Cyanide	µg/L	310	2,000	--	--	--	--	**26**	**27**	< 10	< 10	< 10	0.020	< 10	< 10	**12**	**17**	**10**	< 10	< 10	**17**

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 2 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
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N/A - RRS are not applicable to this parameter
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HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

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November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-205D (Continued)															
				08/09/12	05/17/12	05/12 DUP	02/15/12	02/12 DUP	11/18/11	11/18 DUP	08/11/11	05/05/11	02/22/11	02/11 DUP	11/10/10	08/11/10	05/11/10	02/24/10
Field Groundwater Quality Parameters																		
pH	SU	N/A	N/A	6.14	7.13		6.65		5.9		5.60	6.57	6.6		6.47	6.56	6.41	6.55
Specific Conductance	µm/cm	N/A	N/A	801	766		791		372		778	615	664		679	701	690	733
Temperature	°Celsius	N/A	N/A	25.15	24.5		21.58		20.37		24.51	19.50	22.88		23.74	23.66	21.86	11.89
Dissolved Oxygen	mg/L	N/A	N/A	0.31	1.93		0.63		1.19		1.36	0.88	0.31		0.17	1.77	0.36	0.55
ORP	mV	N/A	N/A	-58.9	-96.2		-95.2		-22		-9.5	-77.3	-91.1		-86.1	-92.4	-71.0	-145.5
Turbidity	NTU	N/A	N/A	6.16	3.68		1.05		8.86		4.10	2.94	3.65		0.91	0.1	1.06	0.87
Laboratory Results - Natural Attenuation Parameters																		
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--	< 0.050	< 0.050	--	--	--	--	< 0.050	< 0.050	--	--	--	< 0.050
Sulfate	mg/L	N/A	N/A	--	--	--	< 5.0	< 5.0	--	--	--	--	< 5.0	< 5.0	--	--	--	< 5.0
Sulfide	mg/L	N/A	N/A	--	--	--	**1.8**	**1.8**	--	--	--	--	< 1.0	< 1.0	--	--	--	< 1.0
Ferrous Iron	mg/L	N/A	N/A	--	--	--	0.25 HF	0.25 HF	--	--	--	--	< 0.010	< 0.010	--	--	--	**1.1**
Total Iron	mg/L	N/A	N/A	--	--	--	**3.7**	**3.7**	--	--	--	--	**4.4**	**4.5**	--	--	--	**3.6**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	**1.4**	**1.4**	--	--	--	--	**1.1**	**1.2**	--	--	--	**1.1**
Methane	mg/L	N/A	N/A	--	--	--	**2600**	**2500**	--	--	--	--	**2100**	**2200**	--	--	--	**1700**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	**4.9**	**5.4**	--	--	--	--	**4.2**	**4.4**	--	--	--	**3.9**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	**1.7**	**1.8**	--	--	--	--	**1.2**	**1.2**	--	--	--	**1.2**
Laboratory Results - Organic Constituents																		
Volatile Organic Compounds																		
Benzene	µg/L	5*	9	**5,800**	**4,700**	**4,600**	**3,200**	**3,500**	< 250	< 250	**3,900**	**3,500**	**1,900**	**2,300**	**3,500**	**3,700**	**3,800**	**4,000**
Carbon Disulfide	µg/L	329	1,700	< 100	< 100	< 100	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	**1,400**	**1,100**	**1,000**	**900**	**1,000**	< 250	< 250	**970**	**840**	**390**	**720**	--	--	--	**1,500**
Toluene	µg/L	1,000*	1,100	< 50	< 50	< 50	< 250	< 250	< 250	< 250	<250	<250	<250	<250	--	--	--	**280**
Total Xylenes	µg/L	31,000	200,000	**750**	**660**	**630**	**410**	**350**	< 250	< 250	**450**	**530**	<250	**360**	--	--	--	**1300**
Semivolatile Organic Compounds																		
Acenaphthene	µg/L	2,000*	6,100	**140**	**150**	**120**	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	µg/L	470	3,100	< 1.9	< 2.0	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	µg/L	4,700	31,000	**0.55**	**4.0**	**2.3**	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]anthracene	µg/L	1.17	3.92	< 1.9	< 2.0	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	< 1.9	< 2.0	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	< 1.9	< 2.0	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	< 1.9	< 2.0	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 1.9	< 2.0	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	< 1.9	< 2.0	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 1.9	< 2.0	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimehylphenol	µg/L	700*	700*	< 19	< 20	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	µg/L	1,000*	4,100	< 1.9	< 2.0	**0.35**	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene	µg/L	1,000*	4,100	**38**	**34**	**26**	--	--	--	--	--	--	--	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 1.9	< 2.0	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	< 19	< 20	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--
3 & 4 Methylphenol	µg/L	78	510	< 19	< 20	< 2.1	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	20*	20*	**3,900 D**	**2,100**	**35**	**5,500**	**5,300**	< 250	**690**	**7,100**	**6,900**	**3,500**	**5,700**	**10,000**	**7,900**	**4,800**	**5,600**
Phenanthrene	µg/L	470	3,100	**36**	**28**	**21**	--	--	--	--	--	--	--	--	--	--	--	--
Phenol	µg/L	9,390	61,000	< 9.5	< 10	**9.8**	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	< 1.9	< 2.0	**0.47**	--	--	--	--	--	--	--	--	--	--	--	--
Inorganic Constituents																		
Antimony	µg/L	6.3	40	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	50*	50*	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	2,000	7,200	**3,000**	**2,800**	**2,900**	**2,900**	**2,900**	**130**	**130**	**3,100**	**2,900**	**3,200**	**3,200**	--	--	--	**2,900**
Beryllium	µg/L	31	200	< 4.0	< 4.0	< 4.0	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10
Copper	µg/L	630	4,100	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	< 20
Lead	µg/L	15*	15*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10
Nickel	µg/L	100	2,000	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	--	--	--	< 40
Zinc	µg/L	4,700	31,000	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	2*	2*	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--
Total Cyanide	µg/L	310	2,000	**13**	**12**	**13**	**11**	**13**	--	--	--	--	< 10	**13**	--	--	--	**12**

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 2 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
mS/cm - millisiemens per centimeter
µS/cm - microsiemens per centimeter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-205DD									
				2/24/2017	8/24/2016	4/6/2016	8/11/2015	2/17/2015	2/17 DUP	8/6/2014	08/14 DUP	2/19/2014	8/8/2013
Field Groundwater Quality Parameters													
pH	SU	N/A	N/A	8.50	9.29	9.31	9.17	9.65		8.95		7.64	11.65
Specific Conductance	µm/cm	N/A	N/A	383.60	296.9	300	246	229		194		141	1,302
Temperature	°Celsius	N/A	N/A	22.85	28.17	20.84	24.87	14.74		23.84		22.08	22.80
Dissolved Oxygen	mg/L	N/A	N/A	0.49	2.83	1.06	1.01	0.91		0.96		3.42	0.25
ORP	mV	N/A	N/A	26.40	55.6	50.8	-101.4	-49.8		-49.2		114.6	-155.1
Turbidity	NTU	N/A	N/A	1.29	1.0	6.89	2.4	29.9		1.38		5.31	7.61
Laboratory Results - Natural Attenuation Parameters													
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**0.28**	--
Sulfate	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**9.3**	--
Sulfide	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	< 1.0	--
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	< 0.100	--
Total Iron	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**0.289**	--
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	< 5.0	--
Methane	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	< 4	--
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**17**	--
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	--	--	--	--	**7.9**	--
Laboratory Results - Organic Constituents													
Volatile Organic Compounds													
Benzene	µg/L	5*	9	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**84**
Carbon Disulfide	µg/L	329	1,700	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/L	700*	2,300	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**6.0**
Toluene	µg/L	1,000*	1,100	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds													
Acenaphthene	µg/L	2,000*	6,100	**2.3**	<0.50	**0.83**	< 0.50	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthylene	µg/L	470	3,100	<1.0	<1.0	< 1.0	< 1.0	< 10	< 10	< 10	< 10	< 10	< 10
Anthracene	µg/L	4,700	31,000	**0.051**	**0.055**	< 0.050	< 0.050	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	< 0.10	< 0.10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	< 0.050	< 0.050	< 10	< 10	< 10	< 10	< 10	< 10
Chrysene	µg/L	117	392	<0.050	<0.050	< 0.050	< 0.050	< 10	< 10	< 10	< 10	< 10	< 10
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20
2,4-Dimehylphenol	µg/L	700*	700*	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	<0.10	<0.10	< 0.10	< 0.10	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	**0.40**	<0.10	< 0.10	< 0.10	< 10	< 10	< 10	< 10	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20
2-Methylphenol	µg/L	780	5,100	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	<0.50	<0.50	1.1	< 0.50	< 10	< 10	< 10	< 10	< 10	< 10
Phenanthrene	µg/L	470	3,100	**0.068**	<0.050	< 0.050	< 0.050	< 10	< 10	< 10	< 10	< 10	< 10
Phenol	µg/L	9,390	61,000	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	<0.050	<0.050	< 0.050	< 0.050	< 10	< 10	< 10	< 10	< 10	< 10
Inorganic Constituents													
Antimony	µg/L	6.3	40	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	**44.2**
Arsenic	µg/L	50*	50*	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	--	**30.9**	**44.8**	**24.7**	**33.1**	**29.8**	**22.9**	**21.2**	< 20	**103**
Beryllium	µg/L	31	200	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Cadmium	µg/L	7.8	51	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium	µg/L	100	310	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**14.6**
Copper	µg/L	630	4,100	--	**14.4**	**11.9**	**12**	< 10	< 10	< 10	< 10	**12.4**	**11.4**
Lead	µg/L	15*	15*	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	**23.3**
Zinc	µg/L	4,700	31,000	--	< 20	< 20	< 20	**43.3**	29.3	**23.8**	**22.8**	**78.1**	**26.5**
Mercury	µg/L	2*	2*	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Total Cyanide	µg/L	310	2,000	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
Analyte was detected above laboratory detection limi
Analyte concentration exceeds the Type 2 RRS (RRS applicable to the well location
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-206D															
				8/15/2017	2/27/2017	4/6/2016	02/17/15	08/05/14	02/18/14	08/08/13	02/08/13	11/08/12	08/09/12	08/12 DUP	05/15/12	02/14/12	11/18/11	08/11/11	05/05/11	02/23/11
Field Groundwater Quality Parameters																				
pH	SU	N/A	N/A	6.40	6.23	6.13	6.10	6.10	6.05	5.94	6.11	6.00	5.99		6.18	6.25	6.33	5.95	6.08	6.05
Specific Conductance	µm/cm	N/A	N/A	543.9	518.9	530	560	481	453	463	441	456	665		477	500	473	328	368	440
Temperature	°Celsius	N/A	N/A	26.28	21.61	22.36	13.62	24.50	21.60	26.53	21.19	21.75	29.12		24.98	20.30	21.99	27.97	20.45	21.61
Dissolved Oxygen	mg/L	N/A	N/A	0.12	0.11	0.35	0.77	0.51	0.33	1.42	0.27	0.25	0.2		0.22	0.22	0.31	0.93	0.58	0.19
ORP	mV	N/A	N/A	-62.56	-4.60	18.1	17.5	-0.2	11.6	-196.8	10.6	-6.8	-65.6		-74.4	-75.7	-69.8	22.1	-19.2	-15.4
Turbidity	NTU	N/A	N/A	4.70	11.48	5.1	55.7	2.29	4.31	3.22	22.8	4.83	5.42		1.42	36.9	9.82	57.3	9.9	15.9
Laboratory Results - Natural Attenuation Parameters																				
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--	--	--	< 0.25	--	< 0.050	--	--	--	--	< 0.050	--	--	--	< 0.050
Sulfate	mg/L	N/A	N/A	--	--	--	--	--	**110**	--	**99**	--	--	--	--	**5.6**	--	--	--	**78**
Sulfide	mg/L	N/A	N/A	--	--	--	--	--	< 1.0	--	< 1.0	--	--	--	--	**8.8**	--	--	--	< 1.0
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	--	**4.00**	--	15 HF	--	--	--	--	4.3 HF	--	--	--	**12**
Total Iron	mg/L	N/A	N/A	--	--	--	--	--	**12.8**	--	< 0.10	--	--	--	--	**7.5**	--	--	--	**22**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	--	**110**	--	**70**	--	--	--	--	**2.3**	--	--	--	**1.3**
Methane	mg/L	N/A	N/A	--	--	--	--	--	**54**	--	**100**	--	--	--	--	**690**	--	--	--	**100**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	**20**	--	--	--	--	--	--	**4.3**	--	--	--	**4.5**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	--	**4.4**	--	**8.0**	--	--	--	--	**1.4**	--	--	--	**1.5**
Laboratory Results - Organic Constituents																				
Volatile Organic Compounds																				
Benzene	µg/L	5*	9	**12**	**19**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**1.6**	< 1.0	**2.7**	**2.7**	**19**	**60**	**50**	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	**23**	**89**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**3.3**	< 1.0	**1.1**	**1.1**	**43**	**120**	**100**	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	**6.3**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	**21**	< 5.0	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	<5.0	**11.0**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	**3.8**	< 50	**34**	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																				
Acenaphthene	µg/L	2,000*	6,100	**55**	**30**	**3.3**	< 10	< 10	< 10	< 10	< 0.20	**13**	**22**	**34**	**18**	--	--	--	--	--
Acenaphthylene	µg/L	470	3,100	**1.2**	**1.5**	**4.3**	< 10	< 10	< 10	< 10	< 0.20	**18**	**1.4**	**2.1**	**2.9**	--	--	--		--
Anthracene	µg/L	4,700	31,000	**0.69**	**0.55**	**0.10**	< 10	< 10	< 10	< 10	< 0.20	< 0.20	**0.55**	**1.1**	**0.52**	--	--	--	--	--
Benzo[a]anthracene	µg/L	1.17	3.92	**0.080**	**0.081**	**0.11**	**0.10**	**0.14**	**0.13**	< 0.20	< 0.20	**0.23**	< 0.19	< 0.20	< 0.21	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.20	< 0.20	< 0.19	< 0.20	< 0.21	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.19	< 0.20	< 0.21	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	< 0.10	< 10	< 10	< 10	< 10	< 0.20	< 0.20	< 0.19	< 0.20	< 0.21	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	< 0.050	< 10	< 10	< 10	< 10	< 0.20	< 0.20	< 0.19	< 0.20	< 0.21	--	--	--	--	--
Chrysene	µg/L	117	392	**0.055**	**0.057**	**0.084**	< 10	< 10	< 10	< 10	< 0.20	< 0.20	< 0.19	< 0.20	< 0.21	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.19	< 0.20	< 0.21	--	--	--	--	--
2,4-Dimehylphenol	µg/L	700*	700*	<10	<10	< 10	< 10	< 10	< 10	< 10	< 2.0	< 2.0	< 1.9	< 2.0	< 2.1	--	--	--	--	--
Fluoranthene	µg/L	1,000*	4,100	**1.6**	**1.3**	**0.54**	< 10	< 10	< 10	< 10	< 0.20	**1.0**	**1.3**	**1.8**	**1.1**	--	--	--	--	--
Fluorene	µg/L	1,000*	4,100	**17**	**9.50**	**1.9**	< 10	< 10	< 10	< 10	< 0.20	**8.3**	**8.0**	**13**	**5.3**	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.20	< 0.20	< 0.19	< 0.20	< 0.21	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	<10	<10	< 10	< 10	< 10	< 10	< 10	< 2.0	< 2.0	< 1.9	< 2.0	< 2.1	--	--	--	--	--
3 & 4 Methylphenol	µg/L	78	510	<10	<10	< 10	< 10	< 10	< 10	< 10	< 2.0	< 2.0	< 1.9	< 2.0	< 2.1	--	--	--	--	--
Naphthalene	µg/L	20*	20*	**390**	**530**	< 0.50	< 10	< 10	< 10	< 10	< 0.20	**3.4**	**28**	**170 D**	**180**	**1,300**	**990**	< 5.0	**54**	< 5.0
Phenanthrene	µg/L	470	3,100	**3.2**	**3.5**	**0.059**	< 10	< 10	< 10	< 10	< 0.20	**1.1**	**0.52**	**2.9**	**1.8**	--	--	--	--	--
Phenol	µg/L	9,390	61,000	<10	<10	< 10	< 10	< 10	< 10	< 10	< 0.98	< 1.0	< 0.96	< 0.99	< 1.1	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	**3.7**	**3.3**	**3.6**	< 10	< 10	< 10	< 10	< 0.20	**4.2**	**1.9**	**2.4**	**3.3**	--	--	--	--	--
Inorganic Constituents																				
Antimony	µg/L	6.3	40	--	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--
Arsenic	µg/L	50*	50*	--	--	< 50	< 50	< 50	< 50	< 50	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--
Barium	µg/L	2,000	7,200	--	--	**49**	**120**	**143**	**62**	**86**	< 89	**62**	**1,900**	**1,900**	**470**	**2,700**	**1,900**	**55**	**250**	**170**
Beryllium	µg/L	31	200	--	--	< 10	< 10	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--
Cadmium	µg/L	7.8	51			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--
Chromium	µg/L	100	310	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	--	--	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Lead	µg/L	15*	15*	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	--	< 20	< 20	< 20	< 20	< 20	< 40	< 40	**110**	**110**	**52**	**130**	**110**	< 40	**44**	< 40
Zinc	µg/L	4,700	31,000	--	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--
Mercury	µg/L	2*	2*	--	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--
Total Cyanide	µg/L	310	2,000	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**23**	**18**	**15**	**42**	--	--	--	**15**

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-207D																		
				02/23/17	04/06/16	02/17/15	08/05/14	02/20/14	08/08/13	02/11/13	11/06/12	08/09/12	05/17/12	02/15/12	11/17/11	08/10/11	05/05/11	02/23/11	02/11 DUP	11/09/11	08/10/10	05/11/10	03/17/10
Field Groundwater Quality Parameters																						
pH	SU	N/A	N/A	6.80	7.01	6.85	7.26	7.00	6.31	6.57	10.62	5.91	6.92	6.63	6.54	6.37	6.65	6.48	6.48	9.74	6.50	6.24	6.51
Specific Conductance	µm/cm	N/A	N/A	543.10	0.500	0.499	0.584	0.493	506	526	326	529	469	473	452	494	473	394	394	231	482	467	485
Temperature	°Celsius	N/A	N/A	22.93	18.23	18.85	26.61	19.20	24.43	22.17	22.25	26.91	24.10	20.66	21.49	26.36	19.18	18.29	18.29	26.91	28.31	23.02	17.29
Dissolved Oxygen	mg/L	N/A	N/A	0.11	0.78	1.67	1.03	0.59	1.28	0.83	0.11	0.25	0.34	3.96	0.35	0.54	0.71	0.45	0.45	1.02	2.82	0.29	0.5
ORP	mV	N/A	N/A	-85.10	-67.9	-58.5	-82.2	183.5	-212.1	-94.9	-46.7	-81.2	-77.3	-83.4	-83.3	-77.2	-112.4	-81.6	-81.6	-14.8	-74.6	-58.7	-75.4
Turbidity	NTU	N/A	N/A	8.45	9.4	45.9	5.38	10.4	1.32	8.71	25	32.0	50.1	9.17	7.83	9.41	7.49	9.41	9.41	5.4	2.3	0.65	22.6
Laboratory Results - Natural Attenuation Parameters																						
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--	--	< 0.25	--	< 0.050	--	--	--	< 0.050	--	--	--	< 0.050	< 0.050	--	--	--	< 0.050
Sulfate	mg/L	N/A	N/A	--	--	--	--	**4.4**	--	< 5.0	--	--	--	< 5.0	--	--	--	< 5.0	< 5.0	--	--	--	< 5.0
Sulfide	mg/L	N/A	N/A	--	--	--	--	< 1.0	--	< 1.0	--	--	--	**2.2**	--	--	--	< 1.0	**1.3**	--	--	--	< 1.0
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	< 0.100	--	2.5 HF	--	--	--	1.1 HF	--	--	--	**0.96**	**0.55**	--	--	--	**1.1**
Total Iron	mg/L	N/A	N/A	--	--	--	--	**0.687**	--	**8.8**	--	--	--	**5.4**	--	--	--	**4.1**	**4.5**	--	--	--	**5.4**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	**22**	--	**59**	--	--	--	**1.1**	--	--	--	**0.79**	**0.88**	--	--	--	**0.67**
Methane	mg/L	N/A	N/A	--	--	--	--	**48**	--	**2000**	--	--	--	**1200**	--	--	--	**470**	**530**	--	--	--	**58**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	**19**	--	--	--	--	--	**4.9**	--	--	--	**4.9**	**4.3**	--	--	--	**4.0**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	**5.4**	--	**7.4**	--	--	--	**1.7**	--	--	--	**1.6**	**1.4**	--	--	--	**1.3**
Laboratory Results - Organic Constituents																						
Volatile Organic Compounds																						
Benzene	µg/L	5*	9	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**2.9**	< 1.0	**1.8**	**1.2**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**18**
Carbon Disulfide	µg/L	329	1,700	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**1.8**	< 1.0	**1.8**	**1.8**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	< 5.0
Total Xylenes	µg/L	31,000	200,000	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	< 5.0
Semivolatile Organic Compounds																						
Acenaphthene	µg/L	2,000*	6,100	**1.4**	**1.4**	< 10	< 10	< 10	**14**	**8.0**	**2.7**	**7.0**	**9.3**	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	µg/L	470	3,100	<1.0	< 1.0	< 10	< 10	< 10	< 10	**0.69**	**0.50**	**0.76**	**1.5**	--	--	--	--	--	--	--	--	--	--
Anthracene	µg/L	4,700	31,000	<0.050	**0.055**	< 10	< 10	< 10	< 10	0.24	< 0.20	**0.24**	**0.25**	--	--	--	--	--	--	--	--	--	--
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	**0.21**	< 0.050	< 0.050	< 0.050	< 0.20	< 0.20	< 0.20	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	**0.29**	< 0.050	< 0.050	< 0.050	< 0.20	< 0.20	< 0.20	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	**0.30**	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	**0.43**	< 10	< 10	< 10	< 10	< 0.20	< 0.20	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	**0.38**	< 10	< 10	< 10	< 10	< 0.20	< 0.20	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	117	392	<0.050	**0.23**	< 10	< 10	< 10	< 10	< 0.20	< 0.20	< 0.19	0.22	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	**0.35**	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--
2,4-Dimehylphenol	µg/L	700*	700*	<10	< 10	< 10	< 10	< 10	< 10	< 2.0	< 2.0	< 1.9	< 2.2	--	--	--	--	--	--	--	--	--	--
Fluoranthene	µg/L	1,000*	4,100	**1.1**	**0.68**	< 10	< 10	< 10	< 10	**2.0**	**1.4**	**2.0**	**1.7**	--	--	--	--	--	--	--	--	--	--
Fluorene	µg/L	1,000*	4,100	**0.54**	**0.28**	< 10	< 10	< 10	**11**	**6.5**	**2.0**	**5.4**	**3.1**	--	--	--	--	--	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	**0.38**	< 0.050	< 0.050	< 0.050	< 0.20	< 0.20	< 0.20	< 0.19	< 0.22	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	<10	< 10	< 10	< 10	< 10	< 10	< 2.0	< 2.0	< 1.9	< 2.2	--	--	--	--	--	--	--	--	--	--
3 & 4 Methylphenol	µg/L	78	510	<10	< 10	< 10	< 10	< 10	< 10	< 2.0	< 2.0	< 1.9	< 2.2	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	20*	20*	<0.50	< 0.50	< 10	< 10	< 10	< 10	**7.8**	**2.7**	**8.4**	**3.3**	**21**	**15**	< 5.0	**8.8**	**61**	**64**	< 5.0	< 5.0	< 5.0	**22**
Phenanthrene	µg/L	470	3,100	<0.050	**0.061**	< 10	< 10	< 10	< 10	< 0.20	< 0.20	**0.22**	**0.28**	--	--	--	--	--	--	--	--	--	--
Phenol	µg/L	9,390	61,000	<10	< 10	< 10	< 10	< 10	< 10	< 0.99	< 0.99	< 0.97	< 1.1	--	--	--	--	--	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	**2.0**	**1.1**	< 10	< 10	< 10	< 10	**2.9**	**1.9**	**2.6**	**2.9**	--	--	--	--	--	--	--	--	--	--
Inorganic Constituents																						
Antimony	µg/L	6.3	40	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	50*	50*	--	< 50	< 50	< 50	< 50	< 50	**40**	**41**	< 20	< 20	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	2,000	7,200	--	**2,450**	**2,890**	**2,950**	**1,980**	**2,920**	**3,300**	**230**	**2,600**	**2,200**	**2,400**	**2,400**	**2,400**	**2,300**	**2,300**	**2,100**	--	--	--	**2,300**
Beryllium	µg/L	31	200	--	< 10	< 10	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	100	310	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10
Copper	µg/L	630	4,100	--	< 10	< 10	< 10	< 10	< 10	< 20	**37**	**27**	**44**	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	< 20
Lead	µg/L	15*	15*	--	< 10	< 10	< 10	< 10	< 10	**12**	**19**	**25**	**36**	< 10	**19**	< 10	< 10	< 10	< 10	--	--	--	< 10
Nickel	µg/L	100	2,000	--	**54**	< 20	< 20	< 20	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	--	--	--	< 40
Zinc	µg/L	4,700	31,000	--	< 20	< 20	< 20	< 20	< 20	**31**	**62**	**57**	**98**	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	2*	2*	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--	--	--	--	--
Total Cyanide	µg/L	310	2,000	--	< 10	**3.6**	**4.3**	**2**	**23**	**22**	< 10	**29**	**24**	**14**	--	--	--	**19**	**19**	--	--	--	53

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
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mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
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Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-300D													
				02/22/17	04/06/16	02/17/15	08/04/15	02/18/14	02/05/13	11/06/12	08/07/12	05/15/12	02/09/12	11/18/11	08/11/11	05/04/11	02/22/11
Field Groundwater Quality Parameters																	
pH	SU	N/A	N/A	6.11	6.13	6.05	6.03	6.02	6.04	5.98	5.46	6.66	6.53	6.2	6.16	6.13	6.23
Specific Conductance	µm/cm	N/A	N/A	540	292	384	378	158	399	396	420	431	518	390	453	419	421
Temperature	°Celsius	N/A	N/A	20.70	17.77	16.29	24.89	20.89	20.37	20.90	22.72	23.84	16.90	19.76	25.76	21.39	21.81
Dissolved Oxygen	mg/L	N/A	N/A	0.11	0.79	0.88	0.37	0.86	1.00	2.41	1.12	0.13	1.11	0.32	0.33	0.24	0.16
ORP	mV	N/A	N/A	5.30	66.1	21.6	14.2	96.1	23.6	-18.6	16.3	-78.8	-55.7	-63.6	150.5	-90.6	-32.6
Turbidity	NTU	N/A	N/A	3.69	0.83	0.44	2.67	0.88	2.48	3.12	0.90	0.21	9.72	5.06	9.12	4.20	0.79
Laboratory Results - Natural Attenuation Parameters																	
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--	--	< 0.25	< 0.050	--	--	--	< 0.050	--	--	--	< 0.050
Sulfate	mg/L	N/A	N/A	--	--	--	--	**2.0**	< 5.0	--	--	--	< 5.0	--	--	--	**5.1**
Sulfide	mg/L	N/A	N/A	--	--	--	--	< 1.0	< 1.0	--	--	--	**1.4**	--	--	--	< 1.0
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	< 0.100	6.8 HF	--	--	--	9.1 HF	--	--	--	**3.8**
Total Iron	mg/L	N/A	N/A	--	--	--	--	**0.425**	**6.3**	--	--	--	**9.5**	--	--	--	**4.6**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	< 5.0	**55**	--	--	--	**0.98**	--	--	--	**0.63**
Methane	mg/L	N/A	N/A	--	--	--	--	**5**	**32**	--	--	--	**650**	--	--	--	**1.2**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	**19**	**23**	--	--	--	**5.7**	--	--	--	**4.2**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	**9.5**	**7.4**	--	--	--	**1.7**	--	--	--	**1.4**
Laboratory Results - Organic Constituents																	
Volatile Organic Compounds																	
Benzene	µg/L	5*	9	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																	
Acenaphthene	µg/L	2,000*	6,100	<0.50	< 0.50	< 10	< 10	< 10	< 0.19	< 0.20	< 0.20	< 0.22	--	--	--	--	--
Acenaphthylene	µg/L	470	3,100	<1.0	< 1.0	< 10	< 10	< 10	< 0.19	< 0.20	< 0.20	< 0.22	--	--	--	--	--
Anthracene	µg/L	4,700	31,000	<0.050	< 0.050	< 10	< 10	< 10	< 0.19	< 0.20	< 0.20	< 0.22	--	--	--	--	--
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.20	< 0.20	< 0.22	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.20	< 0.20	< 0.22	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.20	< 0.20	< 0.22	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	< 0.10	< 10	< 10	< 10	< 0.19	< 0.20	< 0.20	< 0.22	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	< 0.050	< 10	< 10	< 10	< 0.19	< 0.20	< 0.20	< 0.22	--	--	--	--	--
Chrysene	µg/L	117	392	<0.050	< 0.050	< 10	< 10	< 10	< 0.19	< 0.20	< 0.20	< 0.22	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.20	< 0.20	< 0.22	--	--	--	--	--
2,4-Dimehylphenol	µg/L	700*	700*	<10	< 10	< 10	< 10	< 10	< 1.9	< 2.0	< 2.0	< 2.2	--	--	--	--	--
Fluoranthene	µg/L	1,000*	4,100	<0.10	< 0.10	< 10	< 10	< 10	< 0.19	< 0.20	< 0.20	< 0.22	--	--	--	--	--
Fluorene	µg/L	1,000*	4,100	<0.10	< 0.10	< 10	< 10	< 10	< 0.19	< 0.20	< 0.20	< 0.22	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.20	< 0.20	< 0.22	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	<10	< 10	< 10	< 10	< 10	< 1.9	< 2.0	< 2.0	< 2.2	--	--	--	--	--
3 & 4 Methylphenol	µg/L	78	510	<10	< 10	< 10	< 10	< 10	< 1.9	< 2.0	< 2.0	< 2.2	--	--	--	--	--
Naphthalene	µg/L	20*	20*	<0.50	< 0.50	< 10	< 10	< 10	< 0.19	< 0.20	< 0.20	< 0.22	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Phenanthrene	µg/L	470	3,100	<0.050	< 0.050	< 10	< 10	< 10	< 0.19	< 0.20	< 0.20	< 0.22	--	--	--	--	--
Phenol	µg/L	9,390	61,000	<10	< 10	< 10	< 10	< 10	< 0.97	< 1.0	< 1.0	< 1.1	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	<0.050	< 0.050	< 10	< 10	< 10	< 0.19	< 0.20	< 0.20	< 0.22	--	--	--	--	--
Inorganic Constituents																	
Antimony	µg/L	6.3	40	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--
Arsenic	µg/L	50*	50*	--	< 50	< 50	< 50	< 50	< 20	< 20	< 20	< 20	--	--	--	--	--
Barium	µg/L	2,000	7,200	--	**1,270**	**1,550**	**1,520**	**619**	**1,500**	**1,600**	**1,700**	**1,500**	**1,700**	**1,600**	**1,600**	**1,700**	**1,500**
Beryllium	µg/L	31	200	--	< 10	**15.1**	**11.3**	< 10.0	**18**	**19**	**19**	**17**	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	**52.1**	< 5.0	< 5.0	**20.3**	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--
Chromium	µg/L	100	310	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	--	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Lead	µg/L	15*	15*	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	**55.8**	**25.3**	**25.1**	< 20.0	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Zinc	µg/L	4,700	31,000	--	**770**	**52.2**	**88.4**	**39.1**	**28**	**22**	**27**	**25**	--	--	--	--	--
Mercury	µg/L	2*	2*	--	< 0.20	< 0.00020	< 0.00020	< 0.00020	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--
Total Cyanide	µg/L	310	2,000	--	< 10.0	< 0.010	< 0.010	< 0.010	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-301D																			
				09/01/17	02/21/17	08/23/16	04/07/16	08/13/15	02/17/15	08/07/14	02/20/14	08/07/13	02/07/13	02/13 DUP	11/07/12	11/12 DUP	08/09/12	05/16/12	05/12 DUP	02/16/12	02/12 DUP	11/15/11	08/10/11	05/04/11	02/24/11
Field Groundwater Quality Parameters																							
pH	SU	N/A	N/A	6.05	6.06	6.12	6.07	6.13	6.10	7.28	6.26	5.62	6.33		6.12		5.82	6.38		5.96		6.07	6.07	5.99	6.29
Specific Conductance	µm/cm	N/A	N/A	820	774	352.7	842	586	747	748.0	598.0	572	526		566		619	637		547		529	478	459	402
Temperature	°Celsius	N/A	N/A	23.46	20.53	27.77	17.10	22.07	13.45	23.12	18.36	22.03	16.68		18.79		24.00	24.49		20.44		23.5	24.18	20.40	21.09
Dissolved Oxygen	mg/L	N/A	N/A	0.87	0.29	0.20	0.29	0.05	3.51	0.18	0.48	0.41	0.64		0.21		1.27	0.25		1.98		0.37	1.31	0.54	0.29
ORP	mV	N/A	N/A	-48.90	-17.00	-47.9	-82.9	-104.9	-98.3	-160.5	-78.2	-190.8	-82.6		-167.4		3.0	-65.8		-65.9		-128.9	-98.1	-71.8	-25.7
Turbidity	NTU	N/A	N/A	0.23	0.50	3.6	3.24	0.86	1.41	0.00	7.12	0.4	0.68		0.91		4.32	5.56		3.23		7.68	4.96	4.38	9.27
Laboratory Results - Natural Attenuation Parameters																							
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--	--	--	--	--	< 0.25	--	< 0.050	< 0.050	--	--	--	--	--	< 0.050	< 0.050	--	--	--	< 0.050
Sulfate	mg/L	N/A	N/A	--	--	--	--	--	--	--	**18**	--	**32**	**55**	--	--	--	--	--	**27**	**23**	--	--	--	**26**
Sulfide	mg/L	N/A	N/A	--	--	--	--	--	--	--	**2.6**	--	**2.0**	**2.4**	--	--	--	--	--	**12**	**12**	--	--	--	< 1.0
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	--	--	--	**4.31**	--	7.0 HF	7.1 HF	--	--	--	--	--	5.7 HF	4.9 HF	--	--	--	**2.8**
Total Iron	mg/L	N/A	N/A	--	--	--	--	--	--	--	**5.20**	--	**7.3**	**7.0**	--	--	--	--	--	**5.9**	**5.8**	--	--	--	**3.5**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	--	--	--	**91**	--	**58**	**56**	--	--	--	--	--	**1.3**	**1.2**	--	--	--	**0.51**
Methane	mg/L	N/A	N/A	--	--	--	--	--	--	--	**43**	--	**26**	**24**	--	--	--	--	--	**47**	**44**	--	--	--	**4.7**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	--	--	**20**	--	--	--	--	--	--	--	--	**6.0**	**5.8**	--	--	--	**4.6**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	--	--	--	**2.0**	--	**5.4**	**3.8**	--	--	--	--	--	**1.9**	**1.9**	--	--	--	**1.6**
Laboratory Results - Organic Constituents																							
Volatile Organic Compounds																							
Benzene	µg/L	5*	9	<5.0	**9.3**	<5.0	< 5.0	< 5.0	**9.2**	**6.0**	< 5.0	< 5.0	**2.3**	**2.3**	**2.7**	< 5.0	**2.2**	< 10	< 5.0	< 50	< 50	< 10	**12**	**270**	**84**
Carbon Disulfide	µg/L	329	1,700	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 10	< 5.0	--	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**17**	**24**	**24**	**43**	**49**	**13**	**36**	**37**	< 50	< 50	**22**	**18**	<25	< 10
Toluene	µg/L	1,000*	1,100	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	1.2	< 5.0	< 1.0	< 10	< 5.0	< 50	< 50	< 10	< 10	<25	**58**
Total Xylenes	µg/L	31,000	200,000	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 10	< 5.0	< 50	< 50	< 10	< 10	**130**	**51**
Semivolatile Organic Compounds																							
Acenaphthene	µg/L	2,000*	6,100	**0.74**	**0.75**	**0.97**	**0.58**	**0.51**	< 10	< 10	< 10	< 10	< 2.0	< 2.0	**0.26**	**0.24**	< 0.19	< 2.2	< 2.2	--	--	--	--	--	--
Acenaphthylene	µg/L	470	3,100	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 10	< 10	< 10	< 10	< 2.0	< 2.0	< 0.20	< 0.20	< 0.19	< 2.2	< 2.2	--	--	--	--	--	--
Anthracene	µg/L	4,700	31,000	**0.22**	**0.25**	**0.16**	**0.17**	**0.13**	< 10	< 10	< 10	< 10	< 2.0	< 2.0	< 0.20	< 0.20	< 0.19	< 2.2	< 2.2	--	--	--	--	--	--
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 2.0	< 2.0	< 0.20	< 0.20	< 0.19	< 2.2	< 2.2	--	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 2.0	< 2.0	< 0.20	< 0.20	< 0.19	< 2.2	< 2.2	--	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 2.0	< 2.0	< 0.20	< 0.20	< 0.19	< 2.2	< 2.2	--	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	<0.10	< 0.10	< 0.10	< 10	< 10	< 10	< 10	< 2.0	< 2.0	< 0.20	< 0.20	< 0.19	< 2.2	< 2.2	--	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 10	< 10	< 10	< 10	< 2.0	< 2.0	< 0.20	< 0.20	< 0.19	< 2.2	< 2.2	--	--	--	--	--	--
Chrysene	µg/L	117	392	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 10	< 10	< 10	< 10	< 2.0	< 2.0	< 0.20	< 0.20	< 0.19	< 2.2	< 2.2	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 2.0	< 2.0	< 0.20	< 0.20	< 0.19	< 2.2	< 2.2	--	--	--	--	--	--
2,4-Dimehylphenol	µg/L	700*	700*	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 2.0	< 2.1	< 1.9	< 22	< 22	--	--	--	--	--	--
Fluoranthene	µg/L	1,000*	4,100	**0.13**	**0.16**	<0.10	< 0.10	< 0.10	< 10	< 10	< 10	< 10	< 2.0	< 2.0	< 0.20	< 0.21	< 0.19	< 2.2	< 2.2	--	--	--	--	--	--
Fluorene	µg/L	1,000*	4,100	**3.7**	**3.8**	**0.77**	**2.7**	**2.3**	< 10	< 10	< 10	< 10	< 2.0	< 2.0	**1.3**	**1.8**	< 0.19	< 2.2	< 2.2	--	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 2.0	< 2.0	< 0.20	< 0.21	< 0.19	< 2.2	< 2.2	--	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 2.0	< 2.0	< 1.9	< 22	< 22	--	--	--	--	--	--
3 & 4 Methylphenol	µg/L	78	510	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 2.0	< 2.0	< 1.9	< 22	< 22	--	--	--	--	--	--
Naphthalene	µg/L	20*	20*	**2.6**	**430**	<0.50	**81**	< 0.50	< 10	**120**	< 10	< 10	**410**	**460**	**1,400**	< 0.20	**1,300** D	3,500	1,400	**1,400**	**1,200**	**1,100**	**720 ***	**900**	**390**
Phenanthrene	µg/L	470	3,100	**0.5**	**1.3**	<0.050	**0.87**	**0.23**	< 10	< 10	< 10	< 10	< 2.0	< 2.0	**1.0**	**1.2**	< 0.19	< 2.2	< 2.2	--	--	--	--	--	--
Phenol	µg/L	9,390	61,000	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 0.99	< 0.99	< 0.97	< 11	< 11	--	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	**0.11**	**0.11**	**0.91**	**0.070**	**0.080**	< 10	< 10	< 10	< 10	< 2.0	< 2.0	< 0.20	< 0.20	< 0.19	< 2.2	< 2.2	--	--	--	--	--	--
Inorganic Constituents																							
Antimony	µg/L	6.3	40	--	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--
Arsenic	µg/L	50*	50*	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--
Barium	µg/L	2,000	7,200	--	--	**50.2**	**264**	**771**	**713**	**851**	**1870**	**2100**	**1700**	**1600**	**2500**	**2200**	**2400**	**2400**	**2400**	**2500**	**2600**	**2500**	**2100**	**2300**	**1400**
Beryllium	µg/L	31	200	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--	--
Cadmium	µg/L	7.8	51	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--	--
Chromium	µg/L	100	310	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Lead	µg/L	15*	15*	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	--	< 20	**43.4**	< 20	< 20	< 20	< 20	< 20	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Zinc	µg/L	4,700	31,000	--	--	< 20	< 20.0	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--	--
Mercury	µg/L	2*	2*	--	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--	--
Total Cyanide	µg/L	310	2,000	--	--	<10	**121**	**43**	**87**	**106**	**62**	**83**	**84**	**81**	**93**	**96**	< 10	**85**	**91**	**96**	**86**	--	--	--	**97**

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-302D											MW-302DD									
				02/21/17	04/07/16	08/12/15	02/18/15	08/07/14	02/19/14	08/08/13	02/08/13	11/07/12	11/15/11	02/24/11	08/15/17	02/23/17	08/24/16	04/07/16	08/12/15	02/17/15	08/07/14	02/19/14	02/19/14 DUP	08/08/13	08/13 DUP
Field Groundwater Quality Parameters																								
pH	SU	N/A	N/A	5.69	5.72	5.67	5.67	5.93	5.79	5.73	5.91	5.83	6.11	6.51	7.59	7.46	7.49	7.50	7.47	7.77	7.54	7.58		7.31	
Specific Conductance	µm/cm	N/A	N/A	1028.2	1202	1.068	1.173	0.957	1.052	1690	1502	1862	1432	1069	656.23	557.3	677.3	0.732	0.616	0.665	0.678	0.595		677	
Temperature	°Celsius	N/A	N/A	22.62	24.69	26.87	15.17	28.41	23.33	24.19	13.32	20.79	21.39	21.05	23.88	22.27	23.42	21.98	26.20	14.48	29.20	20.22		23.24	
Dissolved Oxygen	mg/L	N/A	N/A	6.21	0.20	0.18	0.58	0.55	0.54	0.45	0.94	0.17	0.22	0.09	1.38	0.21	0.29	0.16	0.26	1.18	0.56	0.20		0.87	
ORP	mV	N/A	N/A	25.1	-113.3	-64.0	-45.4	3.2	-12.0	-32.5	-8.3	-77.1	-89	-74	-137.24	-167.7	-296.3	-240.1	-215.9	-169.5	-136.6	-141.5		-202.9	
Turbidity	NTU	N/A	N/A	12.65	5.22	4.07	4.33	15.3	8.87	9.42	9.2	2.25	6.67	8.62	2.88	2.64	6.8	2.96	31.9	4.42	2.85	1.95		4.82	
Laboratory Results - Natural Attenuation Parameters																								
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--	--	--	< 2.5	--	< 0.050	--	--	< 0.050	--	--	--	--	--	--	--	< 0.25	< 0.25	--	--
Sulfate	mg/L	N/A	N/A	--	--	--	--	--	**470**	--	**1.0**	--	--	**400**	--	--	--	--	--	--	--	**28.0**	**27.0**	--	--
Sulfide	mg/L	N/A	N/A	--	--	--	--	--	< 1.0	--	< 1.0	--	--	< 1.0	--	--	--	--	--	--	--	< 1.0	< 1.0	--	--
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	--	**6.04**	--	**31 HF**	--	--	**9.3**	--	--	--	--	--	--	--	**0.112**	**0.112**	--	--
Total Iron	mg/L	N/A	N/A	--	--	--	--	--	**6.84**	--	< 0.10	--	--	**15**	--	--	--	--	--	--	--	**1.25**	**1.27**	--	--
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	--	**190**	--	**30**	--	--	**0.99**	--	--	--	--	--	--	--	**6.4**	**5.6**	--	--
Methane	mg/L	N/A	N/A	--	--	--	--	--	**35**	--	**44**	--	--	**24**	--	--	--	--	--	--	--	**100**	**98**	--	--
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	**24**	--	--	--	--	**4.2**	--	--	--	--	--	--	--	**16**	**17**	--	--
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	--	**2.4**	--	**10**	--	--	**1.4**	--	--	--	--	--	--	--	**2.2**	**2.9**	--	--
Laboratory Results - Organic Constituents																								
Volatile Organic Compounds																								
Benzene	µg/L	5*	9	**5.4**	< 5.0	**15**	**12**	< 5.0	**550**	< 5.0	**15**	**5.9**	**34**	**25**	**23**	**6.4**	**24**	**20**	**11**	**13**	**7.6**	**35**	**35**	**810**	**780**
Carbon Disulfide	µg/L	329	1,700	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	--	--	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/L	700*	2,300	<5.0	< 5.0	5.8	< 5.0	**32**	**31**	**11**	**12**	**5.4**	< 5.0	< 5.0	25	<5.0	**33**	**48**	**30**	**45**	< 5.0	**15**	**14**	**55**	**55**
Toluene	µg/L	1,000*	1,100	<5.0	< 5.0	**19**	**12**	< 5.0	**610**	**49**	**1.4**	**16**	**36**	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**17**	**16**
Total Xylenes	µg/L	31,000	200,000	<5.0	**6.8**	**16**	**13**	< 5.0	**170**	**39**	**10**	**15**	**21**	< 5.0	<5.0	<5.0	**6.8**	**5.4**	< 5.0	< 5.0	**7.2**	**17**	**16**	**61**	**63**
Semivolatile Organic Compounds																								
Acenaphthene	µg/L	2,000*	6,100	**2.5**	**0.75**	**4.6**	< 10	< 10	< 10	< 10	< 0.24	**7.0**	--	--	**1.9**	<0.50	**1.4**	**1.1**	**1.0**	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthylene	µg/L	470	3,100	**7.2**	**1.5**	**21**	**17**	< 10	< 10	**42**	< 0.24	**29**	--	--	**2.0**	<1.0	**1.2**	< 1.0	**1.8**	< 10	< 10	< 10	< 10	< 10	< 10
Anthracene	µg/L	4,700	31,000	**1.9**	< 0.050	**4.1**	< 10	< 10	< 10	< 10	< 0.24	**3.5**	--	--	**0.059**	<0.050	**0.066**	**0.057**	**0.083**	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	< 0.050	**0.053**	**0.26**	**0.069**	**0.18**	**0.31**	< 0.24	**0.21**	--	--	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	< 0.050	< 0.050	**0.28**	**0.053**	**0.19**	**0.27**	< 0.24	< 0.20	--	--	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.20
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	< 0.10	< 0.10	**0.22**	< 0.10	**0.17**	< 0.20	< 0.24	< 0.20	--	--	<0.10	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	< 0.10	< 0.10	< 10	< 10	< 10	< 10	< 0.24	< 0.20	--	--	<0.10	<0.10	<0.10	< 0.10	< 0.10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	< 0.050	< 0.050	< 10	< 10	< 10	< 10	< 0.24	< 0.20	--	--	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 10	< 10	< 10	< 10	< 10	< 10
Chrysene	µg/L	117	392	<0.050	< 0.050	< 0.050	< 10	< 10	< 10	< 10	< 0.24	**0.21**	--	--	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 10	< 10	< 10	< 10	< 10	< 10
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.24	< 0.20	--	--	<0.10	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.13	< 0.20	< 0.20
2,4-Dimehylphenol	µg/L	700*	700*	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 2.4	< 2.0	--	--	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	**0.96**	**0.20**	**2.2**	< 10	< 10	< 10	< 10	< 0.24	**2.1**	--	--	<0.10	<0.10	<0.10	< 0.10	< 0.10	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	**6.8**	**0.11**	**9.0**	**12**	< 10	< 10	**15**	< 0.24	**18**	--	--	**1.0**	**0.24**	**0.77**	**0.55**	**0.68**	< 10	< 10	< 10	< 10	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	< 0.050	< 0.050	**0.087**	< 0.050	**0.080**	< 0.20	< 0.24	< 0.20	--	--	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.072	< 0.20	< 0.20
2-Methylphenol	µg/L	780	5,100	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 2.4	< 2.0	--	--	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 2.4	< 2.0	--	--	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	**5.5**	< 0.50	**170**	**120**	**130**	**300**	**200**	< 0.24	**250**	**170**	**13**	**31**	<0.50	**22**	**73**	< 0.050	< 10	< 10	< 10	< 10	**180**	**140**
Phenanthrene	µg/L	470	3,100	**11**	**0.058**	**21**	**15**	< 10	**17**	**21**	< 0.24	**26**	--	--	**0.14**	<0.050	**0.13**	**0.19**	**0.17**	< 10	< 10	< 10	< 10	< 10	< 10
Phenol	µg/L	9,390	61,000	<10	< 10	**< 10**	< 10	< 10	< 10	< 10	< 1.2	< 0.99	--	--	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	**19**	**28**
Pyrene	µg/L	1,000*	3,100	**1.2**	**0.39**	**2.7**	< 10	< 10	< 10	< 10	< 0.24	**2.6**	--	--	**0.11**	<0.050	**0.12**	**0.066**	**0.058**	< 10	< 10	< 10	< 10	< 10	< 10
Inorganic Constituents																									
Antimony	µg/L	6.3	40	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Arsenic	µg/L	50*	50*	--	< 50	< 50	< 50	< 50	< 50	< 50	< 20	< 20	--	--	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	--	**55.3**	**60.6**	**68.7**	**71.5**	**48**	**26.3**	**24**	**26**	**130**	**210**	--	--	**808**	**865**	**819**	**757**	**654**	**546**	**554**	**601**	**613**
Beryllium	µg/L	31	200	--	< 10	< 10	< 10	< 10	< 10	< 10	< 4.0	< 4.0	--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Cadmium	µg/L	7.8	51	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium	µg/L	100	310	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	µg/L	630	4,100	--	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	**73.1**	< 20.0	< 20.0	< 20	< 20	< 20	< 40	< 40	< 40	< 40	--	--	**36.1**	**35.8**	< 0.0200	< 20	< 20	< 20	< 20	< 20	< 20
Zinc	µg/L	4,700	31,000	--	< 20	**35**	**124**	< 20	**31.2**	**43.3**	< 20	< 20	--	--	--	--	< 20	< 20	**0.0686**	< 20	< 20	< 20	< 20	< 20	< 20
Mercury	µg/L	2*	2*	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Total Cyanide	µg/L	310	2,000	--	< 10	< 10	**0.017**	**0.189**	**0.425**	**382**	< 10	< 10	--	**32**	--	--	< 10	< 10	**42**	**24**	**69**	**38**	**39**	**70**	**63**

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-303D (Abandoned)												
				8/6/2014	02/20/14	08/06/14	08/07/13	03/13/13	11/08/12	08/09/12	05/17/12	02/16/12	11/16/11	08/09/11	05/03/11	03/14/11
Field Groundwater Quality Parameters																
pH	SU	N/A	N/A	6.72	6.72	7.1	6.61	6.94	6.45	6.44	7.01	6.94	6.81	6.43	6.42	5.64
Specific Conductance	µm/cm	N/A	N/A	0	0.137	0.132	147	133	125	176	170	152	183	172	156	194
Temperature	°Celsius	N/A	N/A	21	20.91	21.69	26.22	19.19	18.9	25.32	25.72	20.25	23.04	23.71	20.77	21.97
Dissolved Oxygen	mg/L	N/A	N/A	0	0.35	0.73	0.12	2.72	0.71	0.48	3.49	3.17	0.18	0.11	0.07	0.08
ORP	mV	N/A	N/A	-85	-85	76	-75.6	-104.1	-65.1	-85.4	72.5	-88.1	-120.3	158.5	-87.2	13.0
Turbidity	NTU	N/A	N/A	1.66	1.66	2.99	2.32	9.97	0.72	1.79	2.36	9.85	9.8	6.52	20.1	21.4
Laboratory Results - Natural Attenuation Parameters																
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	< 0.25	< 0.25	--	--	< 0.050	--	--	--	< 0.050	--	--	--	< 0.050
Sulfate	mg/L	N/A	N/A	8	**7.7**	--	--	**5.0**	--	--	--	< 5.0	--	--	--	< 5.0
Sulfide	mg/L	N/A	N/A	< 1.0	< 1.0	--	--	**1.2**	--	--	--	**1.9**	--	--	--	< 1.0
Ferrous Iron	mg/L	N/A	N/A	1	**1.35**	--	--	< 0.10 HF	--	--	--	0.90 HF	--	--	--	**0.38**
Total Iron	mg/L	N/A	N/A	2	**1.83**	--	--	**1.6**	--	--	--	**2.6**	--	--	--	**1.7**
Carbon Dioxide	mg/L	N/A	N/A	18	**18**	--	--	**10**	--	--	--	**0.33**	--	--	--	**0.18**
Methane	mg/L	N/A	N/A	610	**610**	--	--	**130**	--	--	--	**680**	--	--	--	**6.9**
Dissolved Nitrogen	mg/L	N/A	N/A	19	**19**	--	--	**18**	--	--	--	**6000**	--	--	--	**4.8**
Dissolved Oxygen	mg/L	N/A	N/A	2.5	**2.5**	--	--	**8.5**	--	--	--	**1.8**	--	--	--	**1.5**
Laboratory Results - Organic Constituents																
Volatile Organic Compounds																
Benzene	µg/L	5*	9	< 5.0	< 5.0	< 5.0	**31**	**5.0**	**30**	**3.1**	< 1.0	**16**	**20**	**34**	**40**	**56**
Carbon Disulfide	µg/L	329	1,700	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	--	--	--	--	--
Ethylbenzene	µg/L	700*	2,300	< 5.0	< 5.0	< 5.0	**6.0**	**1.2**	**6.3**	< 1.0	< 1.0	< 5.0	< 5.0	**6.2**	**8.6**	**10**
Toluene	µg/L	1,000*	1,100	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	**3.0**	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	**5.2**	**9.1**
Total Xylenes	µg/L	31,000	200,000	< 5.0	< 5.0	< 5.0	**14**	< 2.0	**14**	< 2.0	< 2.0	**8.8**	**15**	**30**	**49**	**54**
Semivolatile Organic Compounds																
Acenaphthene	µg/L	2,000*	6,100	< 10	< 10	< 10	< 10	**0.33**	**1.8**	< 0.19	< 0.23	--	--	--	--	--
Acenaphthylene	µg/L	470	3,100	< 10	< 10	< 10	< 10	< 0.19	< 0.19	< 0.19	< 0.23	--	--	--	--	--
Anthracene	µg/L	4,700	31,000	< 10	< 10	< 10	< 10	< 0.19	< 0.19	< 0.19	< 0.23	--	--	--	--	--
Benzo[a]anthracene	µg/L	1.17	3.92	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.19	< 0.19	< 0.23	--	--	--	--	--
Benzo[a]pyrene	µg/L	0.2*	0.39	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.19	< 0.19	< 0.23	--	--	--	--	--
Benzo[b]fluoranthene	µg/L	1.17	3.92	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.19	< 0.19	< 0.23	--	--	--	--	--
Benzo[g,h,i]perylene	µg/L	10	10	< 10	< 10	< 10	< 10	< 0.19	< 0.19	< 0.19	< 0.23	--	--	--	--	--
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 10	< 10	< 10	< 10	< 0.19	< 0.19	< 0.19	< 0.23	--	--	--	--	--
Chrysene	µg/L	117	392	< 10	< 10	< 10	< 10	< 0.19	< 0.19	< 0.19	< 0.23	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.19	< 0.19	< 0.23	--	--	--	--	--
2,4-Dimehylphenol	µg/L	700*	700*	< 10	< 10	< 10	< 10	< 1.9	3.2	< 1.9	< 2.3	--	--	--	--	--
Fluoranthene	µg/L	1,000*	4,100	< 10	< 10	< 10	< 10	< 0.19	< 0.19	< 0.19	< 0.23	--	--	--	--	--
Fluorene	µg/L	1,000*	4,100	< 10	< 10	< 10	< 10	< 0.19	0.3	< 0.19	< 0.23	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.19	< 0.19	< 0.23	--	--	--	--	--
2-Methylphenol	µg/L	780	5,100	< 10	< 10	< 10	< 10	< 1.9	< 1.9	< 1.9	< 2.3	--	--	--	--	--
3 & 4 Methylphenol	µg/L	78	510	< 10	< 10	< 10	< 10	< 1.9	< 1.9	< 1.9	< 2.3	--	--	--	--	--
Naphthalene	µg/L	20*	20*	< 10	< 10	< 10	**31**	< 0.19	**43**	< 0.19	< 0.23	**28**	**42**	**110 ***	**170**	**140**
Phenanthrene	µg/L	470	3,100	< 10	< 10	< 10	< 10	< 0.19	1.8	< 0.19	< 0.23	--	--	--	--	--
Phenol	µg/L	9,390	61,000	< 10	< 10	< 10	< 10	< 0.97	< 0.97	< 0.97	< 1.1	--	--	--	--	--
Pyrene	µg/L	1,000*	3,100	< 10	< 10	< 10	< 10	< 0.19	< 0.19	< 0.19	< 0.23	--	--	--	--	--
Inorganic Constituents																
Antimony	µg/L	6.3	40	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	--	--	--	--	--
Arsenic	µg/L	50*	50*	< 50	< 50	< 50	< 50	< 20	< 20	< 20	< 20	--	--	--	--	--
Barium	µg/L	2,000	7,200	**579**	**703**	**579**	**649**	**630**	**610**	**760**	**640**	**730**	**830**	**760**	**830**	**850**
Beryllium	µg/L	31	200	< 10	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--
Cadmium	µg/L	7.8	51	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	--	--	--
Chromium	µg/L	100	310	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	11	< 10
Copper	µg/L	630	4,100	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	20	< 20
Lead	µg/L	15*	15*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	<20	< 20	< 20	< 20.	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Zinc	µg/L	4,700	31,000	**83.9**	**23.4**	**83.9**	**32.5**	< 20	< 20	< 20	< 20	--	--	--	--	--
Mercury	µg/L	2*	2*	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--	--	--	--
Total Cyanide	µg/L	310	2,000	< 10	< 10	< 10	< 10	**66**	< 10	< 10	< 10	< 10	--	--	--	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
HF - Holding time of 15 minutes was exceeded
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-304D					
				02/23/17	04/06/16	4/16 DUP	02/17/15	08/04/14	02/19/14
Field Groundwater Quality Parameters									
pH	SU	N/A	N/A	6.55	6.81		7.00	7.62	11.33
Specific Conductance	µm/cm	N/A	N/A	688.9	1076.000		946	0.933	1162
Temperature	°Celsius	N/A	N/A	20.24	19.95		13.15	21.35	20.10
Dissolved Oxygen	mg/L	N/A	N/A	0.07	0.24		1.15	0.52	0.96
ORP	mV	N/A	N/A	-10.2	14.3		-56.2	-98.1	-81.4
Turbidity	NTU	N/A	N/A	114	189		104	124	4.68
Laboratory Results - Natural Attenuation Parameters									
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--	--	--	< 2.5
Sulfate	mg/L	N/A	N/A	--	--	--	--	--	< 10
Sulfide	mg/L	N/A	N/A	--	--	--	--	--	< 1.0
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	--	< 0.100
Total Iron	mg/L	N/A	N/A	--	--	--	--	--	**0.256**
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	--	< 5.0
Methane	mg/L	N/A	N/A	--	--	--	--	--	**160**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	**17**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	--	**5.4**
Laboratory Results - Organic Constituents									
Volatile Organic Compounds									
Benzene	µg/L	5*	9	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	µg/L	329	1,700	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/L	700*	2,300	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/L	1,000*	1,100	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds									
Acenaphthene	µg/L	2,000*	6,100	<0.50	< 0.50	< 0.50	< 10	< 10	< 10
Acenaphthylene	µg/L	470	3,100	<1.0	< 1.0	< 1.0	< 10	< 10	< 10
Anthracene	µg/L	4,700	31,000	<0.050	< 0.050	< 0.050	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	< 0.10	< 0.10	< 10	< 10	< 10
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	< 0.050	< 0.050	< 10	< 10	< 10
Chrysene	µg/L	117	392	<0.050	< 0.050	< 0.050	< 10	< 10	< 10
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,4-Dimehylphenol	µg/L	700*	700*	<10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	<0.10	< 0.10	< 0.10	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	<0.10	< 0.10	< 0.10	< 10	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Methylphenol	µg/L	780	5,100	<10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	<0.50	< 0.50	< 0.50	< 10	< 10	< 10
Phenanthrene	µg/L	470	3,100	<0.050	< 0.050	< 0.050	< 10	< 10	< 10
Phenol	µg/L	9,390	61,000	<10	< 10	< 10	< 10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	<0.050	< 0.050	< 0.050	< 10	< 10	< 10
Inorganic Constituents									
Antimony	µg/L	6.3	40	--	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Arsenic	µg/L	50*	50*	--	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Barium	µg/L	2,000	7,200	--	**4.50**	**4.53**	**4.44**	**4.87**	**3.35**
Beryllium	µg/L	31	200	--	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Cadmium	µg/L	7.8	51	--	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Chromium	µg/L	100	310	--	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Copper	µg/L	630	4,100	--	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Lead	µg/L	15*	15*	--	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Nickel	µg/L	100	2,000	--	**0.0465**	**0.0397**	< 0.0200	< 0.0200	< 0.0200
Zinc	µg/L	4,700	31,000	--	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Mercury	µg/L	2*	2*	--	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Total Cyanide	µg/L	310	2,000	--	< 0.010	< 0.010	< 0.010	**0.012**	< 0.010

Notes:
Analyte was detected above laboratory detection limi
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-305D							
				08/16/17	02/27/17	08/25/16	04/07/16	08/13/15	02/18/15	08/07/14	02/20/14
Field Groundwater Quality Parameters											
pH	SU	N/A	N/A	12.41	12.36	12.13	12.13	12.28	12.56	12.30	11.97
Specific Conductance	µm/cm	N/A	N/A	6867.4	5070.3	648.7	5,247	2,966	3,696	2,987	2,224
Temperature	°Celsius	N/A	N/A	24.33	21.05	26.70	23.92	26.30	11.21	23.22	22.08
Dissolved Oxygen	mg/L	N/A	N/A	0.42	3.56	0.76	4.63	0.34	3.06	0.29	0.46
ORP	mV	N/A	N/A	-48.7	-47.4	-105.2	-44.3	-183.3	13.1	-152.2	-161.3
Turbidity	NTU	N/A	N/A	3.22	1.46	5.4	2.89	2.3	2.48	3.15	2.09
Laboratory Results - Natural Attenuation Parameters											
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--	--	--	--	--	< 2.5
Sulfate	mg/L	N/A	N/A	--	--	--	--	--	--	--	< 10
Sulfide	mg/L	N/A	N/A	--	--	--	--	--	--	--	< 1.0
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	--	--	--	< 0.100
Total Iron	mg/L	N/A	N/A	--	--	--	--	--	--	--	< 0.100
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	--	--	--	< 5.0
Methane	mg/L	N/A	N/A	--	--	--	--	--	--	--	**13**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	--	--	**17**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	--	--	--	**4.1**
Laboratory Results - Organic Constituents											
Volatile Organic Compounds											
Benzene	µg/L	5*	9	**16,000**	**9,600**	**22,000**	**14,000**	**3,700**	**11,000**	**9,300**	**12,000**
Carbon Disulfide	µg/L	329	1,700	<500	<250	<250	< 5.0	< 5.0	< 500	< 500	< 500
Ethylbenzene	µg/L	700*	2,300	<500	**250**	**770**	**290**	**49**	< 500	< 500	< 500
Toluene	µg/L	1,000*	1,100	**7,700**	**5,000**	**12,000**	**6,900**	**1,600**	**4,500**	**3,900**	**5,600**
Total Xylenes	µg/L	31,000	200,000	**1,300**	**960**	**3,000**	**1100**	**270**	< 500	< 500	**810**
Semivolatile Organic Compounds											
Acenaphthene	µg/L	2,000*	6,100	**2.8**	**3.3**	**13**	**2.5**	**2.7**	< 10	< 10	< 10
Acenaphthylene	µg/L	470	3,100	**71**	**51**	**200**	**51**	**12**	**73**	**79**	**78**
Anthracene	µg/L	4,700	31,000	**2.0**	**1.5**	**7.9**	**9.1**	**3.4**	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	**0.28**	**0.099**	**0.21**	**0.14**	**1.3**	**0.64**	**2.6**	**0.45**
Benzo[a]pyrene	µg/L	0.2*	0.39	**0.079**	<0.050	<0.050	**0.077**	**0.91**	**0.49**	**1.90**	**0.16**
Benzo[b]fluoranthene	µg/L	1.17	3.92	**0.25**	**0.12**	<0.10	**0.16**	**1.1**	**0.45**	**1.6**	**0.18**
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	**0.15**	< 1.0	**0.36**	< 10	< 10	< 10
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	<0.050	< 0.050	**0.24**	< 10	< 10	< 10
Chrysene	µg/L	117	392	**0.23**	**0.076**	**0.16**	**0.11**	**1.0**	< 10	< 10	< 10
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	**0.18**	< 1.0	**0.32**	< 0.10	< 0.10	< 0.10
2,4-Dimehylphenol	µg/L	700*	700*	<10	<10	<10	< 50	< 50	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	**2.0**	**1.1**	**4.1**	**1.1**	**4.3**	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	**8.4**	**9.0**	**46**	**7.2**	**7.8**	**21**	**24**	**22**
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	<0.050	**0.12**	< 0.050	**0.32**	**0.13**	**0.56**	< 0.050
2-Methylphenol	µg/L	780	5,100	<10	<10	<10	< 50	< 50	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	<10	<10	< 50	< 50	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	**5,300**	**3,500**	**9,600**	**3,600**	**220**	**1,300**	**1,100**	**2,000**
Phenanthrene	µg/L	470	3,100	**14**	**9.3**	**52**	**10**	**16**	**33**	**39**	**37**
Phenol	µg/L	9,390	61,000	<10	<10	<10	< 10	< 50	< 10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	**3.0**	**1.1**	**5.1**	**1.5**	**5.7**	< 10	< 10	< 10
Inorganic Constituents											
Antimony	µg/L	6.3	40	--	--	< 20	< 20	< 20	< 20	< 20	< 20
Arsenic	µg/L	50*	50*	--	--	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	--	--	**606**	**450**	**140**	**236**	**136**	**130**
Beryllium	µg/L	31	200	--	--	< 10	< 10	< 10	< 10	< 10	< 10
Cadmium	µg/L	7.8	51	--	--	< 10	< 10	< 50.0	< 50.0	< 50.0	< 50
Chromium	µg/L	100	310	--	--	**19.7**	< 5.0	**169**	**107**	**112**	**245**
Copper	µg/L	630	4,100	--	--	**17.6**	< 10	**139**	< 10	< 10	< 10
Lead	µg/L	15*	15*	--	--	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	--	< 10	< 10	< 10	< 10	< 10	< 10
Zinc	µg/L	4,700	31,000	--	--	< 20	< 20	< 20	< 20	< 20	< 20
Mercury	µg/L	2*	2*	--	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Total Cyanide	µg/L	310	2,000	--	--	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-306D							
				08/16/17	02/24/17	08/23/16	04/07/16	08/14/15	02/18/15	08/06/14	02/19/14
ield Groundwater Quality Parameters											
pH	SU	N/A	N/A	11.51	11.42	11.57	12.03	12.01	12.23	11.91	11.97
Specific Conductance	µm/cm	N/A	N/A	1529.7	1574.6	2094.7	3,670	3,275	2,321	3,425	2,351
Temperature	°Celsius	N/A	N/A	25.66	22.85	30.70	22.10	24.76	16.24	25.73	22.44
Dissolved Oxygen	mg/L	N/A	N/A	4.67	5.42	5.70	4.89	3.40	7.05	1.02	3.09
ORP	mV	N/A	N/A	39.6	-28.8	10.7	10.1	-114.5	41.8	-133.0	-99.4
Turbidity	NTU	N/A	N/A	4.09	0.66	0.9	0.79	1.75	4.17	1.29	0.48
Laboratory Results - Natural Attenuation Parameters											
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--	--	--	< 2.5	--	< 2.5
Sulfate	mg/L	N/A	N/A	--	--	--	--	--	< 10	--	< 10
Sulfide	mg/L	N/A	N/A	--	--	--	--	--	< 1.0	--	< 1.0
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	--	< 0.100	--	< 0.100
Total Iron	mg/L	N/A	N/A	--	--	--	--	--	< 0.100	--	< 0.100
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	--	< 5.0	--	< 5.0
Methane	mg/L	N/A	N/A	--	--	--	--	--	**96**	--	**460**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	--	**22**	--	**20**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	--	**9.7**	--	**7.6**
Laboratory Results - Organic Constituents											
Volatile Organic Compounds											
Benzene	µg/L	5*	9	**33**	<5.0	**190**	**440**	**570**	**790**	**1,200**	**1,400**
Carbon Disulfide	µg/L	329	1,700	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/L	700*	2,300	**6.0**	**5.9**	**23**	**87**	**110**	**130**	**230**	**360**
Toluene	µg/L	1,000*	1,100	<5.0	<5.0	**7.2**	**18**	**32**	**37**	**60**	**96**
Total Xylenes	µg/L	31,000	200,000	<5.0	<5.0	**18**	**61**	**79**	**130**	**190**	**340**
Semivolatile Organic Compounds											
Acenaphthene	µg/L	2,000*	6,100	**0.81**	**1.3**	**7.2**	< 50	**23**	**29**	**41**	**28**
Acenaphthylene	µg/L	470	3,100	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 10	< 10	< 10
Anthracene	µg/L	4,700	31,000	**0.083**	**0.053**	**0.21**	**0.31**	**0.51**	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	<0.10	< 0.10	< 0.10	< 10	< 10	< 10
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 10	< 10	< 10
Chrysene	µg/L	117	392	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 10	< 10	< 10
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,4-Dimehylphenol	µg/L	700*	700*	<10	<10	<10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	**<0.10**	**0.11**	**0.16**	**0.19**	**0.32**	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	**0.39**	**0.57**	**1.8**	**2.5**	**5.5**	< 10	**10**	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2-Methylphenol	µg/L	780	5,100	<10	<10	<10	< 10	< 10	< 10	14	**11**
3 & 4 Methylphenol	µg/L	78	510	<10	<10	<10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	<0.50	<0.50	**1.1**	**63**	**6.5**	**31**	< 10	**190**
Phenanthrene	µg/L	470	3,100	**0.32**	**0.46**	**1.5**	**2.3**	**5.0**	< 10	< 10	< 10
Phenol	µg/L	9,390	61,000	<10	<10	<10	< 10	< 10	< 10	< 10	**97**
Pyrene	µg/L	1,000*	3,100	**0.11**	**0.12**	**0.19**	**0.25**	**0.39**	< 10	< 10	< 10
Inorganic Constituents											
Antimony	µg/L	6.3	40	--	--	< 20	< 20	< 20	< 20	< 20	< 20
Arsenic	µg/L	50*	50*	--	--	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	--	--	**109**	**170**	**349**	**229**	**415**	**271**
Beryllium	µg/L	31	200	--	--	< 10	< 10	< 10	< 10	< 10	< 10
Cadmium	µg/L	7.8	51	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium	µg/L	100	310	--	--	**28.5**	**278**	**29.6**	**296**	**264**	**20**
Copper	µg/L	630	4,100	--	--	**30.0**	**28.8**	**26.3**	**16.8**	**12.8**	< 10
Lead	µg/L	15*	15*	--	--	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	--	**28.8**	**21.9**	< 20	< 20	< 20	< 20
Zinc	µg/L	4,700	31,000	--	--	< 20	< 20	< 20	< 20	< 20	< 20
Mercury	µg/L	2*	2*	--	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Total Cyanide	µg/L	310	2,000	--	--	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-307D						
				02/22/17	08/23/16	04/06/16	08/14/15	02/18/15	08/06/14	02/20/14
Field Groundwater Quality Parameters										
pH	SU	N/A	N/A	12.32	12.22	12.46	12.39	13.85	12.43	12.27
Specific Conductance	µm/cm	N/A	N/A	8534.9	835.6	9983	7857	9568	9533	7342
Temperature	°Celsius	N/A	N/A	21.33	28.70	22.8	23.76	15.28	24.29	23.38
Dissolved Oxygen	mg/L	N/A	N/A	1.54	2.74	1.92	5.24	1.08	2.24	4.92
ORP	mV	N/A	N/A	-40.90	-96.7	-18.63	-110.9	-80.7	-131.1	-115.7
Turbidity	NTU	N/A	N/A	3.83	3.4	3.12	4.18	2.46	9.69	1.58
Laboratory Results - Natural Attenuation Parameters										
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	--	--	--	--	< 2.5	--	< 12
Sulfate	mg/L	N/A	N/A	--	--	--	--	< 10	--	< 50
Sulfide	mg/L	N/A	N/A	--	--	--	--	< 1.00	--	< 1.0
Ferrous Iron	mg/L	N/A	N/A	--	--	--	--	< 0.100	--	< 0.100
Total Iron	mg/L	N/A	N/A	--	--	--	--	< 0.100	--	< 0.100
Carbon Dioxide	mg/L	N/A	N/A	--	--	--	--	< 5.0	--	< 5.0
Methane	mg/L	N/A	N/A	--	--	--	--	**79**	--	**21**
Dissolved Nitrogen	mg/L	N/A	N/A	--	--	--	--	**24**	--	**20**
Dissolved Oxygen	mg/L	N/A	N/A	--	--	--	--	**8.2**	--	**9.4**
Laboratory Results - Organic Constituents										
Volatile Organic Compounds										
Benzene	µg/L	5*	9	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	**6**
Carbon Disulfide	µg/L	329	1,700	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/L	700*	2,300	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	**14**
Toluene	µg/L	1,000*	1,100	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	**15**
Total Xylenes	µg/L	31,000	200,000	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	**16**
Semivolatile Organic Compounds										
Acenaphthene	µg/L	2,000*	6,100	**1.3**	**1.3**	**2.1**	**2.2**	< 10	< 10	< 10
Acenaphthylene	µg/L	470	3,100	<1.0	<1.0	< 1.0	< 1.0	< 10	< 10	< 10
Anthracene	µg/L	4,700	31,000	**0.29**	**0.29**	**0.26**	**0.25**	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.27**
Benzo[a]pyrene	µg/L	0.2*	0.39	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.3**
Benzo[b]fluoranthene	µg/L	1.17	3.92	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	**0.16**
Benzo[g,h,i]perylene	µg/L	10	10	<0.10	<0.10	< 0.10	< 0.10	< 10	< 10	< 10
Benzo[k]fluoranthene	µg/L	11.7	39.2	<0.050	<0.050	< 0.050	< 0.050	< 10	< 10	< 10
Chrysene	µg/L	117	392	<0.050	<0.050	< 0.050	< 0.050	< 10	< 10	< 10
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	<0.10	<0.10	< 0.10	< 0.10	< 0.10	< 0.10	**0.58**
2,4-Dimehylphenol	µg/L	700*	700*	<10	<10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	µg/L	1,000*	4,100	**0.27**	**0.30**	**0.25**	**0.24**	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	**0.42**	**0.53**	**0.61**	**0.78**	< 10	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	<0.050	<0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.32**
2-Methylphenol	µg/L	780	5,100	<10	<10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	<10	<10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	**1.7**	**3.2**	**3.5**	**5.7**	< 10	11	**47**
Phenanthrene	µg/L	470	3,100	**2.6**	**2.7**	**3.2**	**3.0**	< 10	< 10	< 10
Phenol	µg/L	9,390	61,000	<10	<10	< 10	< 10	< 10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	**0.30**	**0.35**	**0.28**	**0.29**	< 10	< 10	< 10
Inorganic Constituents										
Antimony	µg/L	6.3	40	--	< 20	< 20	< 20	< 20	< 20	< 20
Arsenic	µg/L	50*	50*	--	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	--	**1,210**	**1,140**	**1,140**	**1,140**	**1,140**	**1,140**
Beryllium	µg/L	31	200	--	< 10	< 10	< 10	< 10	< 10	< 10
Cadmium	µg/L	7.8	51	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium	µg/L	100	310	--	**72.2**	**68.4**	**65.4**	**33.9**	**78.3**	**68.8**
Copper	µg/L	630	4,100	--	**10.6**	**14.4**	**14.7**	< 10.0	< 10.0	< 10
Lead	µg/L	15*	15*	--	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	--	< 20	< 20	< 20	< 20	< 20	< 20
Zinc	µg/L	4,700	31,000	--	< 20	< 20	< 20	< 20	< 20	< 20
Mercury	µg/L	2*	2*	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Total Cyanide	µg/L	310	2,000	--	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location)
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

Appendix G
Historical Data Summary - Bedrock Groundwater Analytical Data
November 2001 through February 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Georgia

Parameter	Units	Type 2 RRS	Type 4 RRS	MW-308D								
				02/20/18	08/16/17	02/22/17	08/23/16	04/05/16	08/12/15	02/16/15	08/06/14	02/19/14
Field Groundwater Quality Parameters												
pH	SU	N/A	N/A	12.52	12.15	12.24	4.01	12.25	12.40	13.35	12.14	11.66
Specific Conductance	µm/cm	N/A	N/A	5136.07	4680.20	422.50	416.2	3898	2905	2920	2026	1612
Temperature	°Celsius	N/A	N/A	21.72	27.47	23.21	29.66	19.99	25.43	17.87	22.47	23.89
Dissolved Oxygen	mg/L	N/A	N/A	4.97	4.20	2.59	4.01	4.24	3.17	3.50	2.38	0.94
ORP	mV	N/A	N/A	153.12	17.48	-4.00	-32.5	55.8	-88.4	-12.7	-107.9	-112.6
Turbidity	NTU	N/A	N/A	5.40	4.42	5.62	3.7	236	0.49	3.42	3.53	102
Laboratory Results - Natural Attenuation Parameters												
Nitrogen, Nitrate (as N)	mg/L	N/A	N/A	< 5.0	--	--	--	--	--	< 2.5	--	< 2.5
Sulfate	mg/L	N/A	N/A	< 20	--	--	--	--	--	19	--	12
Sulfide	mg/L	N/A	N/A	< 2.00	--	--	--	--	--	< 1.00	--	< 1.0
Ferrous Iron	mg/L	N/A	N/A	< 0.100	--	--	--	--	--	< 0.100	--	< 0.100
Total Iron	mg/L	N/A	N/A	0.175	--	--	--	--	--	< 0.100	--	1.65
Carbon Dioxide	mg/L	N/A	N/A	< 5.0	--	--	--	--	--	< 5.0	--	< 5.0
Methane	mg/L	N/A	N/A	0.018	--	--	--	--	--	47	--	140
Dissolved Nitrogen	mg/L	N/A	N/A	16	--	--	--	--	--	17	--	18
Dissolved Oxygen	mg/L	N/A	N/A	6.4	--	--	--	--	--	5.6	--	4.1
Laboratory Results - Organic Constituents												
Volatile Organic Compounds												
Benzene	µg/L	5*	9	**15**	**13**	**11**	**13**	**24**	**23**	**8.2**	< 5.0	**6.8**
Carbon Disulfide	µg/L	329	1,700	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/L	700*	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**5.8**
Toluene	µg/L	1,000*	1,100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Xylenes	µg/L	31,000	200,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**5.4**
Semivolatile Organic Compounds												
Acenaphthene	µg/L	2,000*	6,100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 10	< 10
Acenaphthylene	µg/L	470	3,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 10	< 10
Anthracene	µg/L	4,700	31,000	**0.088**	**<0.050**	**0.078**	< 0.050	0.051	< 0.050	< 10	< 10	< 10
Benzo[a]anthracene	µg/L	1.17	3.92	< 0.050	< 0.050	< 0.050	< 0.050	0.087	< 0.050	< 0.050	< 0.050	< 0.050
Benzo[a]pyrene	µg/L	0.2*	0.39	< 0.050	< 0.050	< 0.050	< 0.050	0.12	< 0.050	< 0.050	< 0.050	< 0.050
Benzo[b]fluoranthene	µg/L	1.17	3.92	< 0.10	< 0.10	< 0.10	< 0.10	0.15	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	µg/L	10	10	< 0.10	< 0.10	< 0.10	< 0.10	0.21	< 0.10	< 10	< 10	< 10
Benzo[k]fluoranthene	µg/L	11.7	39.2	< 0.050	< 0.050	< 0.050	< 0.050	0.15	< 0.050	< 10	< 10	< 10
Chrysene	µg/L	117	392	< 0.050	< 0.050	< 0.050	< 0.050	0.091	< 0.050	< 10	< 10	< 10
Dibenz(a,h)anthracene	µg/L	0.3*	0.39	< 0.10	< 0.10	< 0.10	< 0.10	0.16	< 0.10	< 0.10	< 0.10	< 0.10
2,4-Dimehylphenol	µg/L	700*	700*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	16	25
Fluoranthene	µg/L	1,000*	4,100	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 10	< 10	< 10
Fluorene	µg/L	1,000*	4,100	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 10	< 10	< 10
Indeno[1,2,3-cd]pyrene	µg/L	1.17	3.92	< 0.050	< 0.050	< 0.050	< 0.050	0.19	< 0.050	< 0.050	< 0.050	< 0.050
2-Methylphenol	µg/L	780	5,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3 & 4 Methylphenol	µg/L	78	510	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	µg/L	20*	20*	**4.5**	1.8	<0.50	<0.50	0.87	< 0.50	< 10	< 10	< 10
Phenanthrene	µg/L	470	3,100	**0.22**	**0.130**	**0.060**	<0.050	0.058	0.086	< 10	< 10	< 10
Phenol	µg/L	9,390	61,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	µg/L	1,000*	3,100	**0.050**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 10	< 10	< 10
Inorganic Constituents												
Antimony	µg/L	6.3	40	< 20	--	--	< 20	< 20	< 20	< 20	< 20	< 20
Arsenic	µg/L	50*	50*	< 50	--	--	< 50	< 50	< 50	< 50	< 50	< 50
Barium	µg/L	2,000	7,200	**336**	--	--	**220**	**189**	**115**	**124**	**99.2**	**106**
Beryllium	µg/L	31	200	< 10	--	--	< 10	< 10	< 10	< 10	< 10	< 10
Cadmium	µg/L	7.8	51	< 5.0	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium	µg/L	100	310	**40.6**	--	--	**36.5**	**31.4**	**30.7**	**33.9**	**26.8**	**25.7**
Copper	µg/L	630	4,100	< 10	--	--	< 10	< 10	< 10	< 10	< 10	< 10
Lead	µg/L	15*	15*	< 10	--	--	< 10	< 10	< 10	< 10	< 10	< 10
Nickel	µg/L	100	2,000	< 20	--	--	< 20	< 20	< 20	< 20	< 20	< 20
Zinc	µg/L	4,700	31,000	< 20	--	--	< 20	**37.7**	< 20	< 20	< 20	< 20
Mercury	µg/L	2*	2*	< 0.20	--	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Total Cyanide	µg/L	310	2,000	< 10	--	--	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
Analyte was detected above laboratory detection limit
Analyte concentration exceeds the Type 4 RRS (RRS applicable to the well location
*Highest RRS equals Type 1 RRS; therefore, the cleanup goal becomes the Type 1 RRS for this chemical
ft AMSL - feet Above Mean Sea Level
RRS - Risk Reduction Standard
SU - Standard Units
µS/cm - microsiemens per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
N/A - RRS are not applicable to this parameter
-- Not Analyzed
Values are listed with the laboratory-reported number of significant figures, which varies between different constituents within the same groundwater sample, and between the same constituent in different wells.

APPENDIX H

ProUCL Outputs

Appendix H
Statistical Evaluation of Stockpile Soil Results - Benzo(a)pyrene
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Bibb County, Georgia

UCL Statistics for Uncensored Full Data Sets

User Selected Options	
Date/Time of Computation	ProUCL 5.13/30/2018 8:05:04 AM
From File	ProUCL data_Stockpiles.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Benzo(a)pyrene

General Statistics

Total Number of Observations	62	Number of Distinct Observations	55
		Number of Missing Observations	0
Minimum	0.002	Mean	0.414
Maximum	3.1	Median	0.25
SD	0.611	Std. Error of Mean	0.0776
Coefficient of Variation	1.477	Skewness	3.013

Normal GOF Test

Shapiro Wilk Test Statistic	0.61	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.254	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.112	Data Not Normal at 5% Significance Level	

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	**0.543**	95% Adjusted-CLT UCL (Chen-1995)	0.573
		95% Modified-t UCL (Johnson-1978)	0.548

Gamma GOF Test

A-D Test Statistic	0.918	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.796	Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.0991	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.118	Detected data appear Gamma Distributed at 5% Significance Level	

Detected data follow Appr. Gamma Distribution at 5% Significance Level

Gamma Statistics

k hat (MLE)	0.711	k star (bias corrected MLE)	0.688
Theta hat (MLE)	0.581	Theta star (bias corrected MLE)	0.601
nu hat (MLE)	88.21	nu star (bias corrected)	85.27
MLE Mean (bias corrected)	0.414	MLE Sd (bias corrected)	0.499
		Approximate Chi Square Value (0.05)	64.99

Appendix H
Statistical Evaluation of Stockpile Soil Results - Benzo(a)pyrene
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Bibb County, Georgia

Adjusted Level of Significance	0.0461	Adjusted Chi Square Value	64.57

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50)	0.543	95% Adjusted Gamma UCL (use when n<50)	0.546

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.954	**Shapiro Wilk Lognormal GOF Test**	
5% Shapiro Wilk P Value	0.0438	Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.129	**Lilliefors Lognormal GOF Test**	
5% Lilliefors Critical Value	0.112	Data Not Lognormal at 5% Significance Level	

Data Not Lognormal at 5% Significance Level

Lognormal Statistics

Minimum of Logged Data	-6.215	Mean of logged Data	-1.731
Maximum of Logged Data	1.131	SD of logged Data	1.486

Assuming Lognormal Distribution

95% H-UCL	0.858	90% Chebyshev (MVUE) UCL	0.908
95% Chebyshev (MVUE) UCL	1.085	97.5% Chebyshev (MVUE) UCL	1.332
99% Chebyshev (MVUE) UCL	1.816		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution at 5% Significance Level

Nonparametric Distribution Free UCLs

95% CLT UCL	0.541	95% Jackknife UCL	0.543
95% Standard Bootstrap UCL	0.539	95% Bootstrap-t UCL	0.609
95% Hall's Bootstrap UCL	0.569	95% Percentile Bootstrap UCL	0.555
95% BCA Bootstrap UCL	0.588		
90% Chebyshev(Mean, Sd) UCL	0.646	95% Chebyshev(Mean, Sd) UCL	0.752
97.5% Chebyshev(Mean, Sd) UCL	0.898	99% Chebyshev(Mean, Sd) UCL	1.185

Suggested UCL to Use

95% Approximate Gamma UCL	**0.543**

When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test
When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Appendix H
Statistical Evaluation of AGLC Southern Parcel Soil Results - Benzo(a)pyrene
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Bibb County, Georgia

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.13/30/2018 8:09:10 AM
From File	ProUCL data_Confirmation data_South Parcel.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Benzo(a)pyrene

General Statistics

Total Number of Observations	13	Number of Distinct Observations	13
		Number of Missing Observations	4
Number of Detects	11	Number of Non-Detects	2
Number of Distinct Detects	11	Number of Distinct Non-Detects	2
Minimum Detect	0.1	Minimum Non-Detect	0.33
Maximum Detect	7	Maximum Non-Detect	0.36
Variance Detects	5.446	Percent Non-Detects	15.38%
Mean Detects	1.687	SD Detects	2.334
Median Detects	0.66	CV Detects	1.383
Skewness Detects	1.721	Kurtosis Detects	1.974
Mean of Logged Detects	-0.385	SD of Logged Detects	1.46

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.718	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.85	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.288	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.251	Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	1.459	KM Standard Error of Mean	0.616
KM SD	2.116	95% KM (BCA) UCL	2.644
95% KM (t) UCL	2.556	95% KM (Percentile Bootstrap) UCL	2.468
95% KM (z) UCL	2.472	95% KM Bootstrap t UCL	4.695
90% KM Chebyshev UCL	3.306	95% KM Chebyshev UCL	4.142
97.5% KM Chebyshev UCL	5.303	99% KM Chebyshev UCL	7.584

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.489	**Anderson-Darling GOF Test**

Appendix H
Statistical Evaluation of AGLC Southern Parcel Soil Results - Benzo(a)pyrene
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Bibb County, Georgia

5% A-D Critical Value	0.768	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.195	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.266	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.67	k star (bias corrected MLE)	0.548
Theta hat (MLE)	2.519	Theta star (bias corrected MLE)	3.081
nu hat (MLE)	14.73	nu star (bias corrected)	12.05
Mean (detects)	1.687		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	1.429
Maximum	7	Median	0.31
SD	2.222	CV	1.554
k hat (MLE)	0.462	k star (bias corrected MLE)	0.407
Theta hat (MLE)	3.092	Theta star (bias corrected MLE)	3.513
nu hat (MLE)	12.02	nu star (bias corrected)	10.58
Adjusted Level of Significance (β)	0.0301		
Approximate Chi Square Value (10.58, α)	4.306	Adjusted Chi Square Value (10.58, β)	3.752
95% Gamma Approximate UCL (use when n>=50)	3.511	95% Gamma Adjusted UCL (use when n<50)	4.029

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	1.459	SD (KM)	2.116
Variance (KM)	4.477	SE of Mean (KM)	0.616
k hat (KM)	0.476	k star (KM)	0.417
nu hat (KM)	12.36	nu star (KM)	10.84
theta hat (KM)	3.068	theta star (KM)	3.498
80% gamma percentile (KM)	2.366	90% gamma percentile (KM)	4.09
95% gamma percentile (KM)	5.975	99% gamma percentile (KM)	10.69

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (10.84, α)	4.476	Adjusted Chi Square Value (10.84, β)	3.909
95% Gamma Approximate KM-UCL (use when n>=50)	3.535	95% Gamma Adjusted KM-UCL (use when n<50)	4.047

Lognormal GOF Test on Detected Observations Only

Appendix H
Statistical Evaluation of AGLC Southern Parcel Soil Results - Benzo(a)pyrene
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Bibb County, Georgia

Shapiro Wilk Test Statistic	0.944	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk Critical Value	0.85	Detected Data appear Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.159	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.251	Detected Data appear Lognormal at 5% Significance Level	

Detected Data appear Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	1.459	Mean in Log Scale	-0.57
SD in Original Scale	2.202	SD in Log Scale	1.407
95% t UCL (assumes normality of ROS data)	2.548	95% Percentile Bootstrap UCL	2.528
95% BCA Bootstrap UCL	2.848	95% Bootstrap t UCL	4.563
95% H-UCL (Log ROS)	6.572		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	-0.585	KM Geo Mean	0.557
KM SD (logged)	1.376	95% Critical H Value (KM-Log)	3.539
KM Standard Error of Mean (logged)	0.405	95% H-UCL (KM -Log)	5.848
KM SD (logged)	1.376	95% Critical H Value (KM-Log)	3.539
KM Standard Error of Mean (logged)	0.405		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	1.454	Mean in Log Scale	-0.596
SD in Original Scale	2.205	SD in Log Scale	1.429
95% t UCL (Assumes normality)	2.544	95% H-Stat UCL	6.874

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Gamma Distributed at 5% Significance Level

Suggested UCL to Use

95% KM Bootstrap t UCL	**4.695**	a Adjusted KM-UCL (use when k<=1 and 15 < n < 50 but k<=1)	4.047

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Appendix H
Statistical Evaluation of Former Macon Iron Paper Soil Results - Benzo(a)pyrene
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Bibb County, Georgia

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.14/27/2018 10:16:25 AM
From File	ProUCL data_DDSB for CSR.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Benzo(a)pyrene

General Statistics

Total Number of Observations	24	Number of Distinct Observations	15
Number of Detects	9	Number of Non-Detects	15
Number of Distinct Detects	8	Number of Distinct Non-Detects	7
Minimum Detect	0.023	Minimum Non-Detect	0.036
Maximum Detect	0.57	Maximum Non-Detect	0.043
Variance Detects	0.0263	Percent Non-Detects	62.5%
Mean Detects	0.212	SD Detects	0.162
Median Detects	0.22	CV Detects	0.767
Skewness Detects	1.227	Kurtosis Detects	2.736
Mean of Logged Detects	-1.918	SD of Logged Detects	1.048

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.856	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.829	Detected Data appear Normal at 5% Significance Level
Lilliefors Test Statistic	0.272	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.274	Detected Data appear Normal at 5% Significance Level

Detected Data appear Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	0.0966	KM Standard Error of Mean	0.0281
KM SD	0.129	95% KM (BCA) UCL	0.148
95% KM (t) UCL	0.145	95% KM (Percentile Bootstrap) UCL	0.143
95% KM (z) UCL	0.143	95% KM Bootstrap t UCL	0.161
90% KM Chebyshev UCL	0.181	95% KM Chebyshev UCL	0.219
97.5% KM Chebyshev UCL	0.272	99% KM Chebyshev UCL	0.376

Appendix H
Statistical Evaluation of Former Macon Iron Paper Soil Results - Benzo(a)pyrene
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Bibb County, Georgia

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.582	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.734	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.271	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.284	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	1.515	k star (bias corrected MLE)	1.084
Theta hat (MLE)	0.14	Theta star (bias corrected MLE)	0.195
nu hat (MLE)	27.27	nu star (bias corrected)	19.51
Mean (detects)	0.212		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	0.094
Maximum	0.57	Median	0.0349
SD	0.134	CV	1.43
k hat (MLE)	0.674	k star (bias corrected MLE)	0.618
Theta hat (MLE)	0.139	Theta star (bias corrected MLE)	0.152
nu hat (MLE)	32.36	nu star (bias corrected)	29.64
Adjusted Level of Significance (β)	0.0392		
Approximate Chi Square Value (29.64, α)	18.21	Adjusted Chi Square Value (29.64, β)	17.58
95% Gamma Approximate UCL (use when n>=50)	0.153	95% Gamma Adjusted UCL (use when n<50)	0.159

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	0.0966	SD (KM)	0.129
Variance (KM)	0.0167	SE of Mean (KM)	0.0281
k hat (KM)	0.557	k star (KM)	0.515
nu hat (KM)	26.74	nu star (KM)	24.73
theta hat (KM)	0.173	theta star (KM)	0.187
80% gamma percentile (KM)	0.159	90% gamma percentile (KM)	0.26
95% gamma percentile (KM)	0.367	99% gamma percentile (KM)	0.63

Appendix H
Statistical Evaluation of Former Macon Iron Paper Soil Results - Benzo(a)pyrene
Atlanta Gas Light Company
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Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (24.73, α)	14.41	Adjusted Chi Square Value (24.73, β)	13.85
95% Gamma Approximate KM-UCL (use when n>=50)	0.166	95% Gamma Adjusted KM-UCL (use when n<50)	0.172

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.853	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk Critical Value	0.829	Detected Data appear Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.3	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.274	Detected Data Not Lognormal at 5% Significance Level	

Detected Data appear Approximate Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.101	Mean in Log Scale	-2.896
SD in Original Scale	0.13	SD in Log Scale	1.062
95% t UCL (assumes normality of ROS data)	0.146	95% Percentile Bootstrap UCL	0.147
95% BCA Bootstrap UCL	0.164	95% Bootstrap t UCL	0.176
95% H-UCL (Log ROS)	0.174		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	-2.974	KM Geo Mean	0.0511
KM SD (logged)	1.026	95% Critical H Value (KM-Log)	2.576
KM Standard Error of Mean (logged)	0.237	95% H-UCL (KM -Log)	0.15
KM SD (logged)	1.026	95% Critical H Value (KM-Log)	2.576
KM Standard Error of Mean (logged)	0.237		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	0.0915	Mean in Log Scale	-3.185
SD in Original Scale	0.135	SD in Log Scale	1.179
95% t UCL (Assumes normality)	0.139	95% H-Stat UCL	0.164

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Normal Distributed at 5% Significance Level

Suggested UCL to Use

95% KM (t) UCL	0.145

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Appendix H
Statistical Evaluation of CIty of Macon Property Soil Results - Benzo(a)pyrene, Arsenic and Lead
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Bibb County, Georgia

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.13/30/2018 8:14:24 AM
From File	ProUCL data_Confirmation data_6th St ROW.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Benzo(a)pyrene

General Statistics

Total Number of Observations	34	Number of Distinct Observations	27
		Number of Missing Observations	1
Number of Detects	29	Number of Non-Detects	5
Number of Distinct Detects	25	Number of Distinct Non-Detects	3
Minimum Detect	9.5000E-4	Minimum Non-Detect	0.36
Maximum Detect	5	Maximum Non-Detect	0.38
Variance Detects	1.389	Percent Non-Detects	14.71%
Mean Detects	0.803	SD Detects	1.179
Median Detects	0.25	CV Detects	1.468
Skewness Detects	2.216	Kurtosis Detects	5.121
Mean of Logged Detects	-1.446	SD of Logged Detects	2.016

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.693	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.926	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.264	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.161	Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	0.705	KM Standard Error of Mean	0.191
KM SD	1.096	95% KM (BCA) UCL	1.062
95% KM (t) UCL	1.029	95% KM (Percentile Bootstrap) UCL	1.022
95% KM (z) UCL	1.02	95% KM Bootstrap t UCL	1.206
90% KM Chebyshev UCL	1.279	95% KM Chebyshev UCL	1.54
97.5% KM Chebyshev UCL	1.901	99% KM Chebyshev UCL	2.61

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.388	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.81	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.124	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.172	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.515	k star (bias corrected MLE)	0.485
Theta hat (MLE)	1.558	Theta star (bias corrected MLE)	1.656
nu hat (MLE)	29.9	nu star (bias corrected)	28.14
Mean (detects)	0.803		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	9.5000E-4	Mean	0.693
Maximum	5	Median	0.183
SD	1.119	CV	1.613
k hat (MLE)	0.461	k star (bias corrected MLE)	0.439

Appendix H
Statistical Evaluation of CIty of Macon Property Soil Results - Benzo(a)pyrene, Arsenic and Lead
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Theta hat (MLE)	1.506	Theta star (bias corrected MLE)	1.578
nu hat (MLE)	31.32	nu star (bias corrected)	29.89
Adjusted Level of Significance (β)	0.0422		
Approximate Chi Square Value (29.89, α)	18.4	Adjusted Chi Square Value (29.89, β)	17.96
95% Gamma Approximate UCL (use when n>=50)	1.126	95% Gamma Adjusted UCL (use when n<50)	1.154

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	0.705	SD (KM)	1.096
Variance (KM)	1.201	SE of Mean (KM)	0.191
k hat (KM)	0.414	k star (KM)	0.397
nu hat (KM)	28.14	nu star (KM)	26.99
theta hat (KM)	1.704	theta star (KM)	1.777
80% gamma percentile (KM)	1.137	90% gamma percentile (KM)	1.994
95% gamma percentile (KM)	2.938	99% gamma percentile (KM)	5.311

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (26.99, α)	16.14	Adjusted Chi Square Value (26.99, β)	15.73
95% Gamma Approximate KM-UCL (use when n>=50)	1.179	95% Gamma Adjusted KM-UCL (use when n<50)	1.21

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.931	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk Critical Value	0.926	Detected Data appear Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.166	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.161	Detected Data Not Lognormal at 5% Significance Level	

Detected Data appear Approximate Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.697	Mean in Log Scale	-1.624
SD in Original Scale	1.116	SD in Log Scale	1.92
95% t UCL (assumes normality of ROS data)	1.021	95% Percentile Bootstrap UCL	1.035
95% BCA Bootstrap UCL	1.114	95% Bootstrap t UCL	1.188
95% H-UCL (Log ROS)	4.357		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	-1.629	KM Geo Mean	0.196
KM SD (logged)	1.986	95% Critical H Value (KM-Log)	3.848
KM Standard Error of Mean (logged)	0.369	95% H-UCL (KM -Log)	5.325
KM SD (logged)	1.986	95% Critical H Value (KM-Log)	3.848
KM Standard Error of Mean (logged)	0.369		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	0.712	Mean in Log Scale	-1.48
SD in Original Scale	1.108	SD in Log Scale	1.859
95% t UCL (Assumes normality)	1.034	95% H-Stat UCL	4.175

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Gamma Distributed at 5% Significance Level

Suggested UCL to Use

justed KM-UCL (use when k<=1 and 15 < n < 50 but k<=1)	**1.21**

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Arsenic

General Statistics

Total Number of Observations	31	Number of Distinct Observations	29

Appendix H
Statistical Evaluation of CIty of Macon Property Soil Results - Benzo(a)pyrene, Arsenic and Lead
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Bibb County, Georgia

		Number of Missing Observations	4
Number of Detects	21	Number of Non-Detects	10
Number of Distinct Detects	20	Number of Distinct Non-Detects	9
Minimum Detect	2.425	Minimum Non-Detect	3.98
Maximum Detect	34.3	Maximum Non-Detect	6.18
Variance Detects	82.29	Percent Non-Detects	32.26%
Mean Detects	9.327	SD Detects	9.071
Median Detects	2.79	CV Detects	0.973
Skewness Detects	1.291	Kurtosis Detects	1.159
Mean of Logged Detects	1.787	SD of Logged Detects	0.961

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.775	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.908	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.288	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.188	Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	7.156	KM Standard Error of Mean	1.461
KM SD	7.936	95% KM (BCA) UCL	9.605
95% KM (t) UCL	9.636	95% KM (Percentile Bootstrap) UCL	9.559
95% KM (z) UCL	9.559	95% KM Bootstrap t UCL	10.59
90% KM Chebyshev UCL	11.54	95% KM Chebyshev UCL	13.52
97.5% KM Chebyshev UCL	16.28	99% KM Chebyshev UCL	21.69

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	1.841	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.764	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.315	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.194	Detected Data Not Gamma Distributed at 5% Significance Level

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	1.263	k star (bias corrected MLE)	1.114
Theta hat (MLE)	7.385	Theta star (bias corrected MLE)	8.371
nu hat (MLE)	53.04	nu star (bias corrected)	46.8
Mean (detects)	9.327		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.704	Mean	7.071
Maximum	34.3	Median	2.66
SD	8.13	CV	1.15
k hat (MLE)	1.149	k star (bias corrected MLE)	1.06
Theta hat (MLE)	6.152	Theta star (bias corrected MLE)	6.673
nu hat (MLE)	71.26	nu star (bias corrected)	65.7
Adjusted Level of Significance (β)	0.0413		
Approximate Chi Square Value (65.70, α)	48.05	Adjusted Chi Square Value (65.70, β)	47.21
95% Gamma Approximate UCL (use when n>=50)	9.669	95% Gamma Adjusted UCL (use when n<50)	9.841

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	7.156	SD (KM)	7.936
Variance (KM)	62.98	SE of Mean (KM)	1.461
k hat (KM)	0.813	k star (KM)	0.756
nu hat (KM)	50.42	nu star (KM)	46.87
theta hat (KM)	8.801	theta star (KM)	9.467
80% gamma percentile (KM)	11.73	90% gamma percentile (KM)	17.64

Appendix H
Statistical Evaluation of CIty of Macon Property Soil Results - Benzo(a)pyrene, Arsenic and Lead
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Bibb County, Georgia

95% gamma percentile (KM)	23.69	99% gamma percentile (KM)	38.05

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (46.87, α)	32.16	Adjusted Chi Square Value (46.87, β)	31.48
95% Gamma Approximate KM-UCL (use when n>=50)	10.43	95% Gamma Adjusted KM-UCL (use when n<50)	10.65

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.803	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.908	Detected Data Not Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.31	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.188	Detected Data Not Lognormal at 5% Significance Level

Detected Data Not Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	7.367	Mean in Log Scale	1.588
SD in Original Scale	7.953	SD in Log Scale	0.841
95% t UCL (assumes normality of ROS data)	9.791	95% Percentile Bootstrap UCL	9.844
95% BCA Bootstrap UCL	10.32	95% Bootstrap t UCL	10.79
95% H-UCL (Log ROS)	9.844		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	1.518	KM Geo Mean	4.565
KM SD (logged)	0.865	95% Critical H Value (KM-Log)	2.271
KM Standard Error of Mean (logged)	0.159	95% H-UCL (KM -Log)	9.502
KM SD (logged)	0.865	95% Critical H Value (KM-Log)	2.271
KM Standard Error of Mean (logged)	0.159		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	7.157	Mean in Log Scale	1.517
SD in Original Scale	8.069	SD in Log Scale	0.883
95% t UCL (Assumes normality)	9.616	95% H-Stat UCL	9.74

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution at 5% Significance Level

Suggested UCL to Use

95% KM (Chebyshev) UCL	**13.52**

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Lead

General Statistics

Total Number of Observations	16	Number of Distinct Observations	16
		Number of Missing Observations	4
Minimum	7.13	Mean	115.8
Maximum	500	Median	41.7
SD	150.9	Std. Error of Mean	37.73
Coefficient of Variation	1.303	Skewness	1.765

Normal GOF Test

Shapiro Wilk Test Statistic	0.716	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.887	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.273	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.213	Data Not Normal at 5% Significance Level

Data Not Normal at 5% Significance Level

Appendix H
Statistical Evaluation of CIty of Macon Property Soil Results - Benzo(a)pyrene, Arsenic and Lead
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Bibb County, Georgia

Assuming Normal Distribution

95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	182	95% Adjusted-CLT UCL (Chen-1995)	195.7
		95% Modified-t UCL (Johnson-1978)	184.7

Gamma GOF Test

A-D Test Statistic	0.663	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.772	Detected data appear Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.201	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.223	Detected data appear Gamma Distributed at 5% Significance Level	

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	0.808	k star (bias corrected MLE)	0.698
Theta hat (MLE)	143.4	Theta star (bias corrected MLE)	165.9
nu hat (MLE)	25.85	nu star (bias corrected)	22.33
MLE Mean (bias corrected)	115.8	MLE Sd (bias corrected)	138.6
		Approximate Chi Square Value (0.05)	12.59
Adjusted Level of Significance	0.0335	Adjusted Chi Square Value	11.76

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50)	205.5	95% Adjusted Gamma UCL (use when n<50)	219.9

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.962	**Shapiro Wilk Lognormal GOF Test**	
5% Shapiro Wilk Critical Value	0.887	Data appear Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.156	**Lilliefors Lognormal GOF Test**	
5% Lilliefors Critical Value	0.213	Data appear Lognormal at 5% Significance Level	

Data appear Lognormal at 5% Significance Level

Lognormal Statistics

Minimum of Logged Data	1.964	Mean of logged Data	4.018
Maximum of Logged Data	6.215	SD of logged Data	1.262

Assuming Lognormal Distribution

95% H-UCL	342	90% Chebyshev (MVUE) UCL	235.9
95% Chebyshev (MVUE) UCL	291.1	97.5% Chebyshev (MVUE) UCL	367.9
99% Chebyshev (MVUE) UCL	518.5		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution at 5% Significance Level

Nonparametric Distribution Free UCLs

95% CLT UCL	177.9	95% Jackknife UCL	182
95% Standard Bootstrap UCL	176.6	95% Bootstrap-t UCL	242.3
95% Hall's Bootstrap UCL	200.6	95% Percentile Bootstrap UCL	180.1
95% BCA Bootstrap UCL	199.6		
90% Chebyshev(Mean, Sd) UCL	229	95% Chebyshev(Mean, Sd) UCL	280.3
97.5% Chebyshev(Mean, Sd) UCL	351.4	99% Chebyshev(Mean, Sd) UCL	491.2

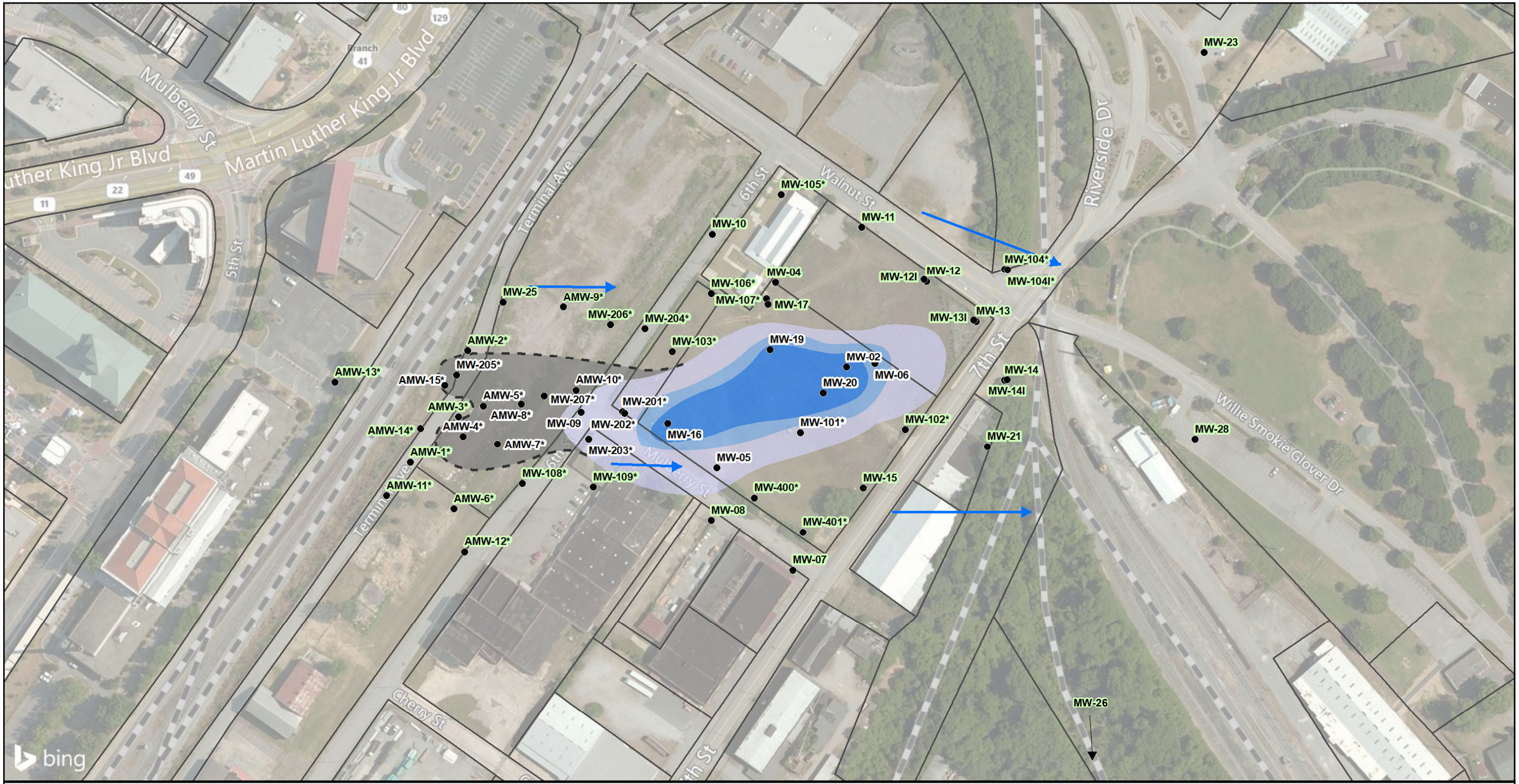
Suggested UCL to Use

95% Adjusted Gamma UCL 219.9

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

APPENDIX I

Alluvial Groundwater Plume Regression Demonstration



Benzene Concentration Contours

- >5 µg/L, <100 µg/L
- >100 µg/L, <1,000 µg/L
- >1,000 µg/L
- Groundwater in this area was not fully characterized in 2000/2001; inferred extent of benzene concentrations > 5µg/L based on assessments completed from 2002-2015

- Alluvial Groundwater Monitoring Wells
- Property Line
- Groundwater Flow Direction

* Well not installed in 2000/2001. Location shown to support inferred extent of benzene as noted above.

NOTES:

Samples collected between 2000 and 2001

Type 2 RRS = 5 µg/L
Type 4 RRS = 9 µg/L
µg/L = migrograms per liter

Benzene not detected or < 5 µg/L

MW-12I, MW-13I and MW-14I are intermediate wells.

N

0 100 200 300

Feet

1:2,000

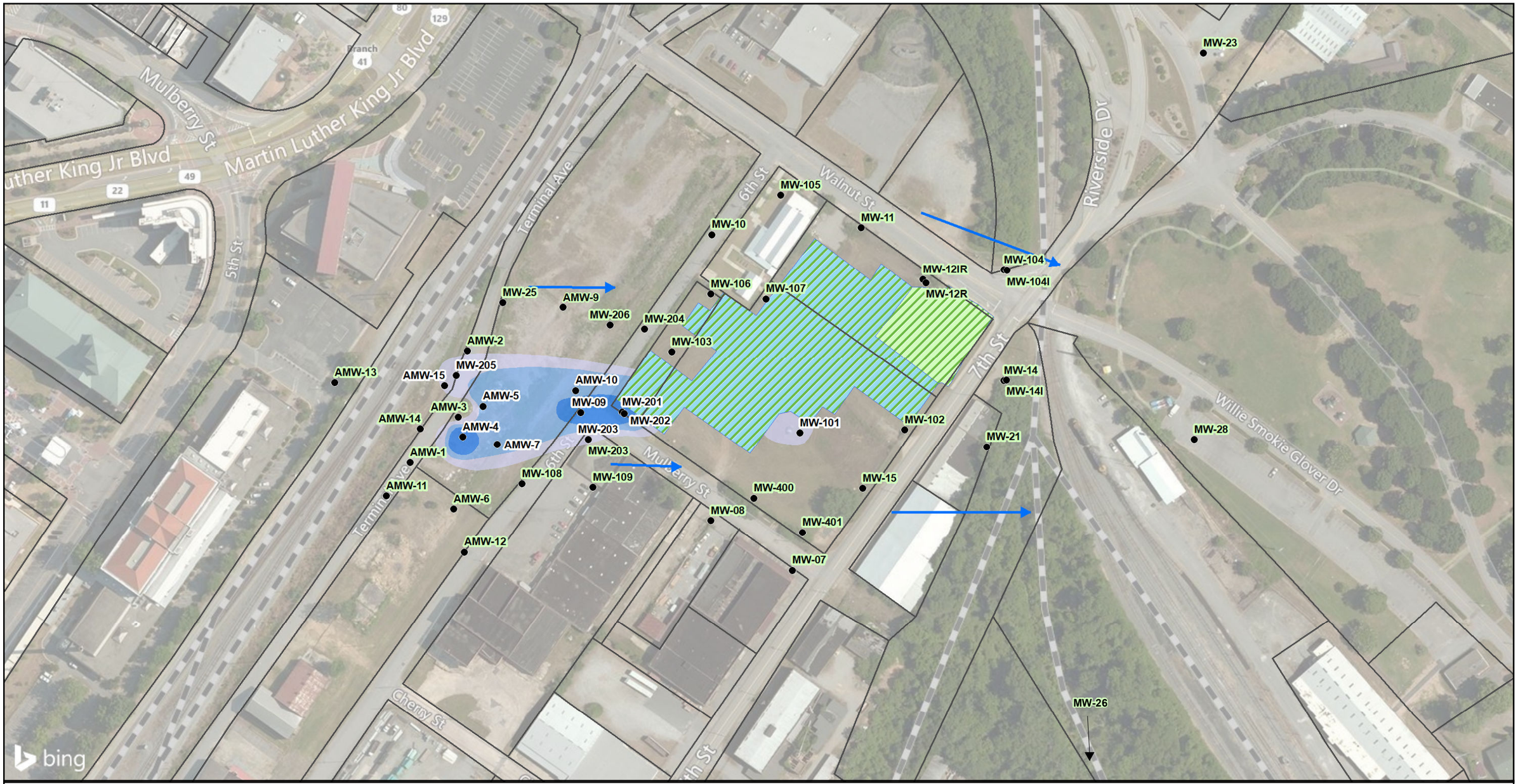
APPENDIX I
BENZENE IN ALLUVIAL GROUNDWATER 2000-2001

Atlanta Gas Light Company
Former Manufactured Gas Plant
Macon, Bibb County, Georgia

ERM

M:\Clients\A-C\AGL\Macon_ArcGIS\Progress_Report\GW_Demonstration\Alluvial\BenzAlluv_2000.mxd, REVISED: 05/01/2018, SCALE: 1:2,000 when printed at 11x17

DRAWN BY: MBG



Benzene Concentration Contours

- >5 µg/L, <100 µg/L
- >100 µg/L, <1,000 µg/L
- >1,000 µg/L

In Situ Solidification (ISS) Mass

- 2002
- 2009

- Allluvial Groundwater Monitoring Wells
- Property Line
- Groundwater Flow Direction

NOTES:

Samples collected between 2013-2015

Type 2 RRS = 5 µg/L
Type 4 RRS = 9 µg/L
µg/L = migrograms per liter

Benzene not detected or < 5 µg/L

MW-12I, MW-14I, and MW-104I are intermediate wells.

N

0 100 200 300

Feet

APPENDIX I
BENZENE CONTOURS IN ALLUVIAL GROUNDWATER 2013-2015

Atlanta Gas Light Company
Former Manufactured Gas Plant
Macon, Bibb County, Georgia

ERM

M:\Clients\A-C\AGL\Macon_ArcGIS\Progress_Report\GW_Demonstration\Alluvial\BenzAlluv_2013_2015_COPY.mxd, REVISED: 03/27/2018, SCALE: 1:2,000 when printed at 11x17

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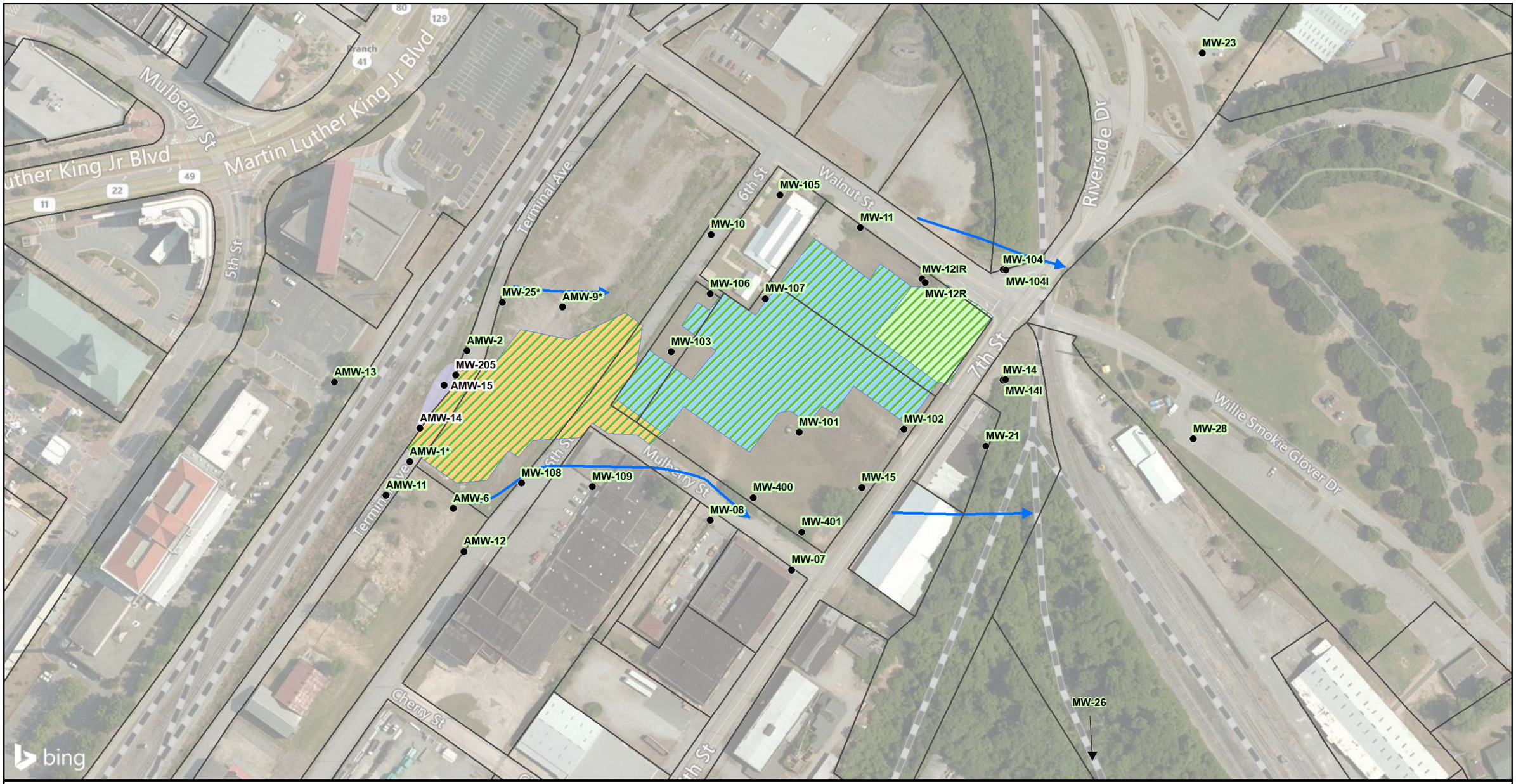

Benzene Concentration Contours

>5 µg/L (Type 4 RRS), <100 µg/L

In Situ Solidification (ISS) Mass

2002

2009

2015

Alluvial Groundwater Monitoring Wells

Property Line

Groundwater Flow Direction

* Abandoned/destroyed well. 2015 data shown (AMW-1, AMW-9, and MW-25) and 2013 data shown (MW-7)

MW-104I was not sampled from 2016-2017; results displayed are based on pre-2016 results, which show that benzene has not been detected in this well.

NOTES:

Samples collected in February 2018

Type 2 RRS = 5 µg/L
Type 4 RRS = 9 µg/L
µg/L = migrograms per liter

Benzene not detected or < 5 µg/L

MW-12I, MW-14I, and MW-104I are intermediate wells.

N

0 100 200 300

Feet

APPENDIX I
BENZENE CONTOURS IN ALLUVIAL GROUNDWATER 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant
Macon, Bibb County, Georgia

ERM

M:\Clients\A-C\AGL\Macon_ArcGIS\Progress_Report\GW_Demonstration\Alluvial\BenzAlluv_2017.mxd, REVISED: 03/27/2018, SCALE: 1:2,000 when printed at 11x17

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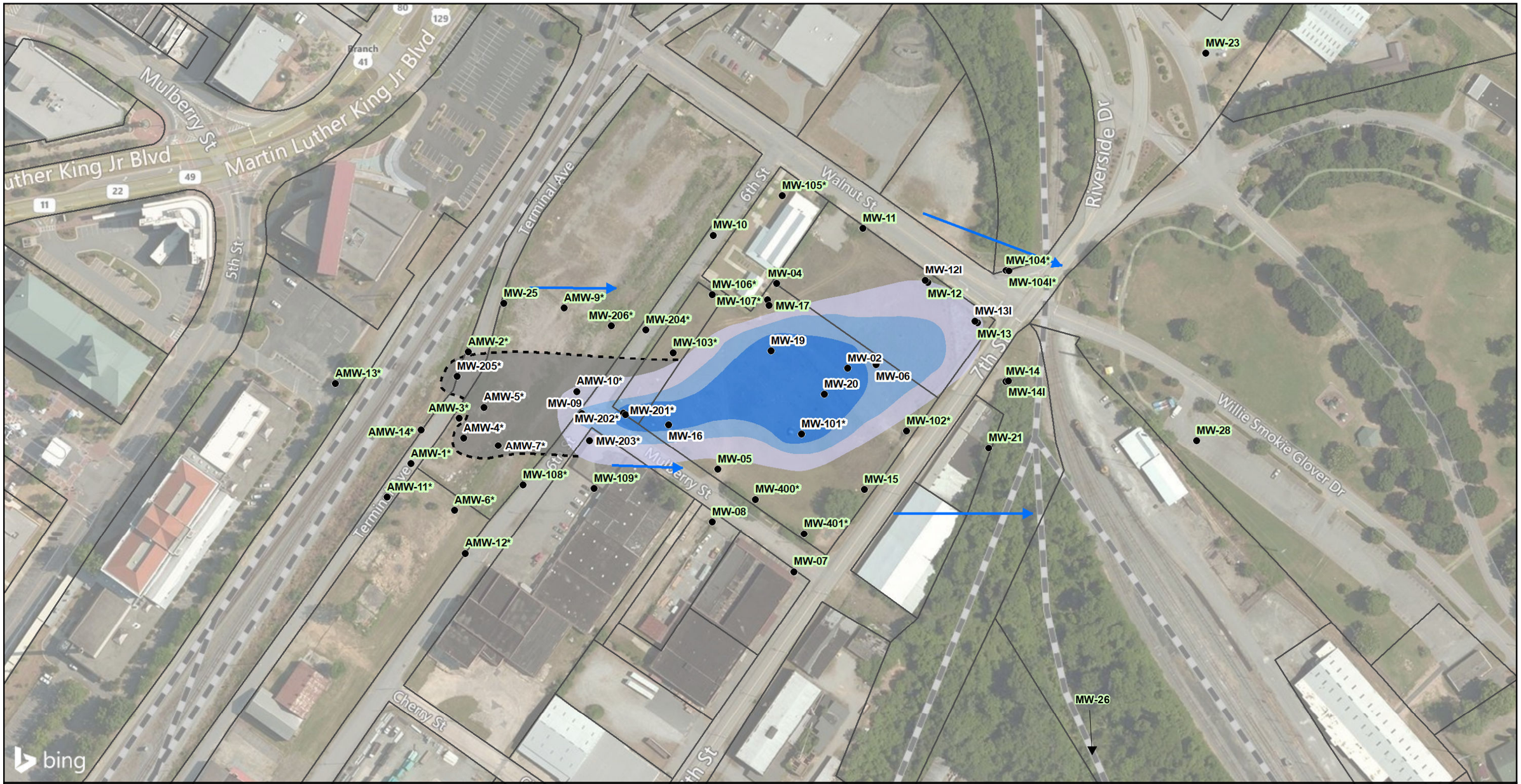


Naphthalene Concentration Contours

- > 20 µg/L, < 100 µg/L
- > 100 µg/L, < 1,000 µg/L
- > 1,000 µg/L

- Alluvial Groundwater Monitoring Wells
- Property Line
- Groundwater Flow Direction

– – Groundwater in this area was not fully characterized in 2000/2001; inferred extent of naphthalene concentrations > 20 µg/L based on assessments completed from 2002-2015

* Well not installed in 2000/2001. Location shown to support inferred extent of napthalene as noted in above comment

NOTES:

Samples collected in 2000 and 2001

Type 2 RRS = 20 µg/L
Type 4 RRS = 20 µg/L
µg/L = micrograms per liter

Naphthalene not detected or < 20 µg/L

MW-12I, MW-13I and MW-14I are intermediate wells.

N

0 100 200 300

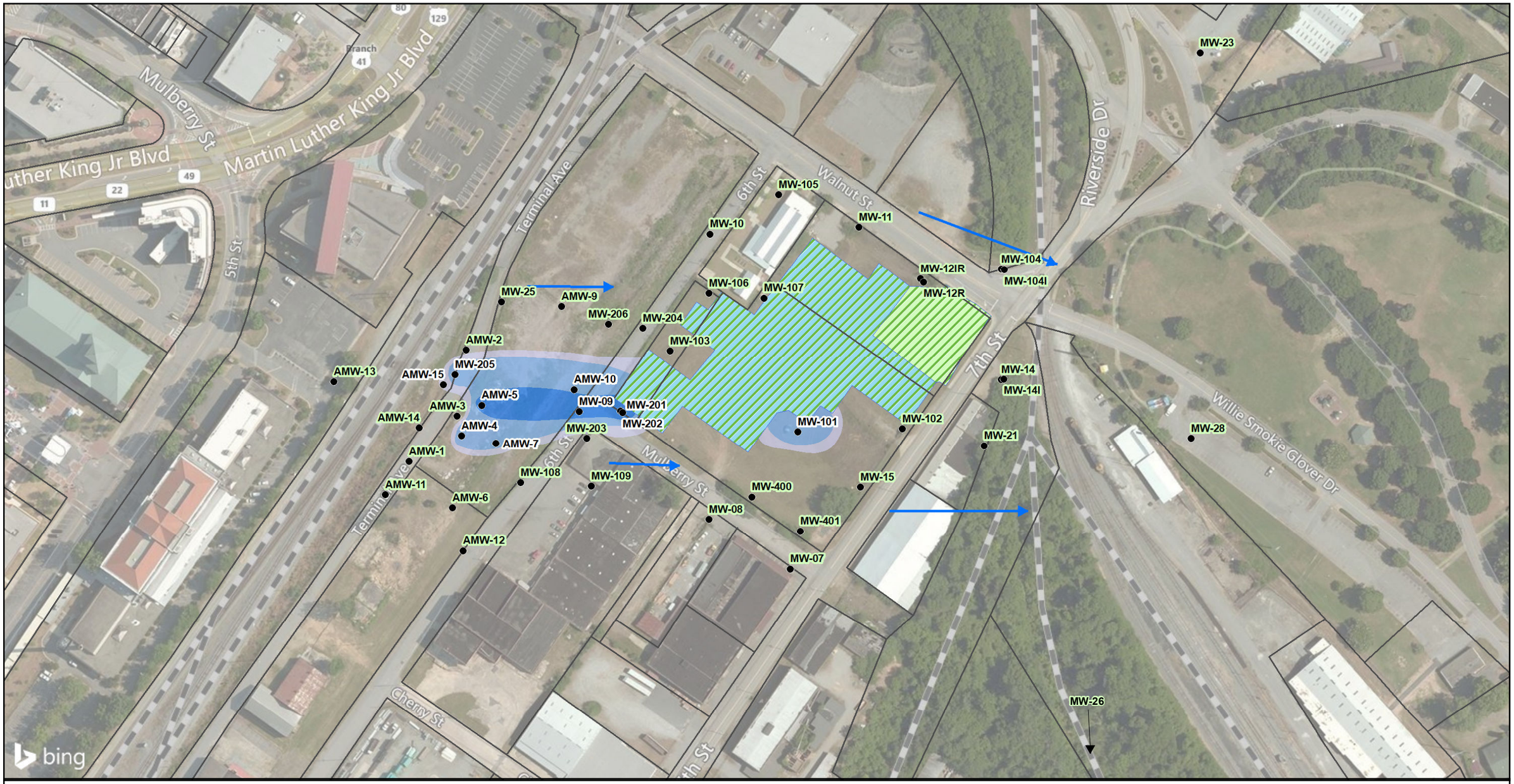
Feet

APPENDIX I
NAPHTHALENE IN ALLUVIAL GROUNDWATER 2000 - 2001
Atlanta Gas Light Company
Former Manufactured Gas Plant
Macon, Bibb County, Georgia

ERM

M:\Clients\A-C\AGL\Macon_ArcGIS\Progress_Report\GW_Demonstration\Alluvial\NaphAlluv_2000.mxd, REVISED: 03/27/2018, SCALE: 1:2,000 when printed at 11x17

DRAWN BY: MBG



Naphthalene Concentration Contours

- > 20 µg/L, < 100 µg/L
- > 100 µg/L, < 1,000 µg/L
- > 1,000 µg/L

In Situ Solidification (ISS) Mass

- 2002
- 2009

- Alluvial Groundwater Monitoring Wells
- Property Line
- Groundwater Flow Direction

NOTES:

Samples collected between 2013-2015

Type 2 RRS = 20 µg/L
Type 4RRS = 20 µg/L
µg/L = microgram per liter

Naphthalene not detected or < 20 µg/L

MW-12IR, MW-14I, and MW-104I are intermediate wells.

N

0 100 200 300

Feet

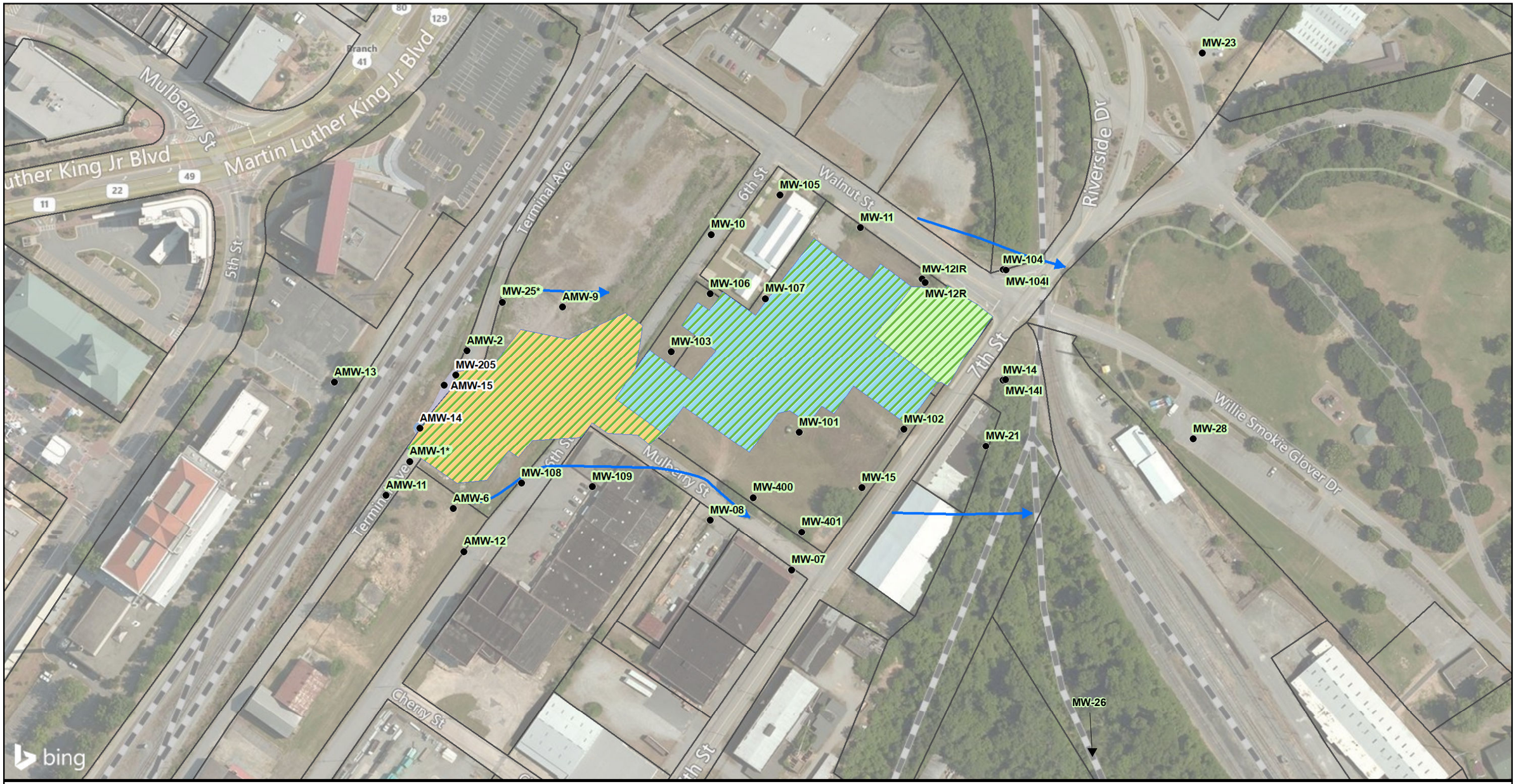
APPENDIX I
NAPHTHALENE IN ALLUVIAL GROUNDWATER 2013-2015

Atlanta Gas Light Company
Former Manufactured Gas Plant
Macon, Bibb County, Georgia

ERM

M:\Clients\A-C\AGL\Macon_ArcGIS\Progress_Report\GW_Demonstration\Alluvial\NaphAlluv_2013_2015.mxd, REVISED: 03/27/2018, SCALE: 1:2,000 when printed at 11x17

DRAWN BY: MBG



Naphthalene Concentration Contours

- > 20 µg/L, < 100 µg/L
- > 100 µg/L, < 1,000 µg/L

In Situ Solidification (ISS) Mass

- 2002
- 2009
- 2015

- Alluvial Groundwater Monitoring Wells
- Property Line
- Groundwater Flow Direction

* Abandoned/destroyed well. 2015 data shown (AMW-1, AMW-9 and MW-25) and 2013 data shown (MW-7 and MW-206)

MW-11, MW-26, and MW-104I were not sampled in 2016-2017; results displayedare based on pre-2016 results, which show that nephthalene has not been detected in any of these wells.

NOTES:

Samples collected in February 2018

Type 2 RRS = 20 µg/L
Type 4 RRS = 20 µg/L
µg/L = microgram per liter

Naphthalene not detected or < 20 µg/L

MW-12IR, MW-14I, and MS-104I are intermediate wells.

N

0 100 200 300

Feet

APPENDIX I
NAPHTHALENE IN ALLUVIAL GROUNDWATER 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant
Macon, Bibb County, Georgia

ERM

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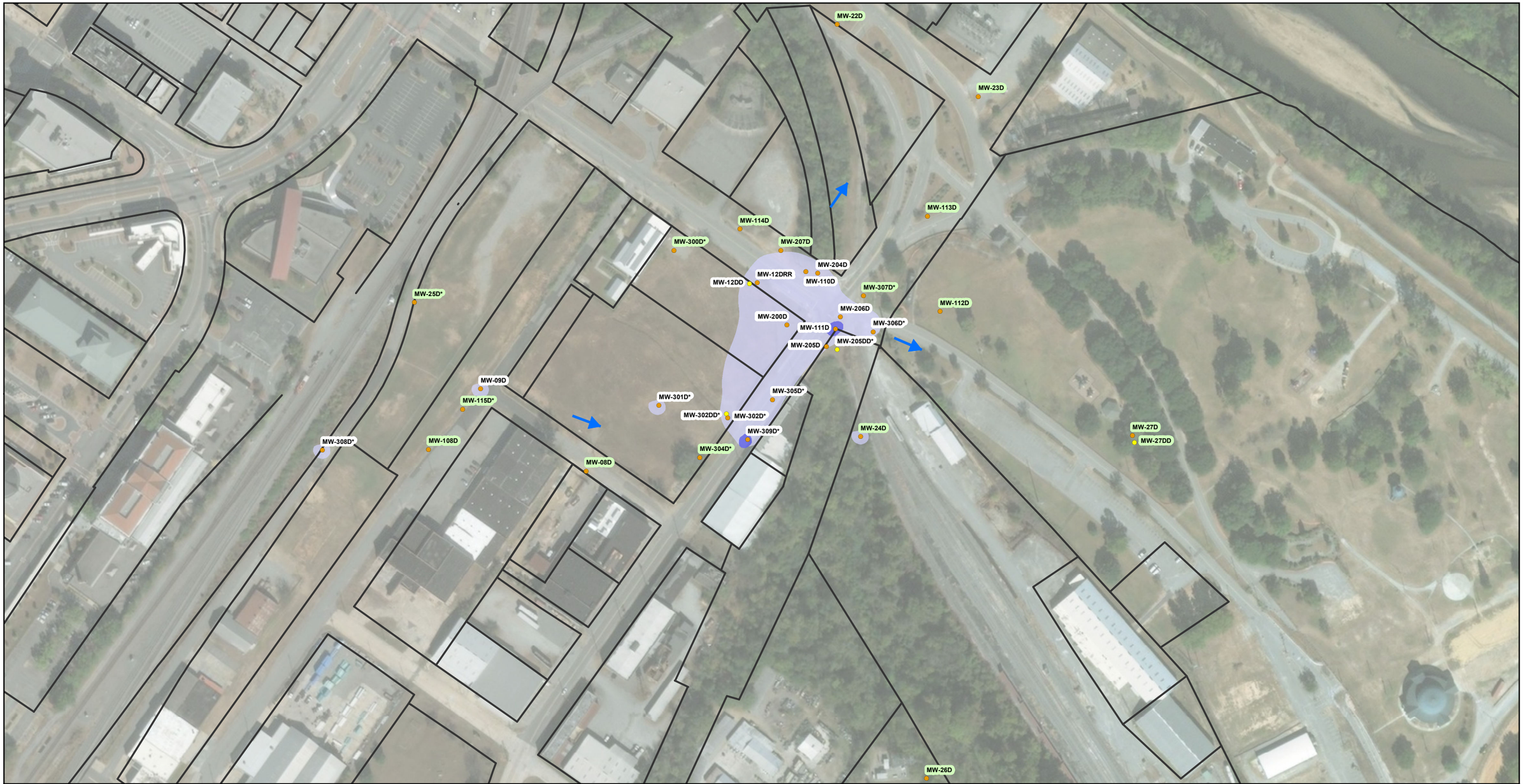
APPENDIX J

Bedrock Plume Stability Demonstration



Shallow Bedrock Well
Deep Bedrock Well
Property Line
Decreasing Hydraulic Potential

Benzene Concentration

Sample Result > 20µg/L
DNAPL Observed in Bedrock Well

NOTES:
Samples collected between 2000 and 2001

µg/L = migrograms per liter

Sample result <5µg/L

N

0 100 200 300 400
Feet

1:2,500

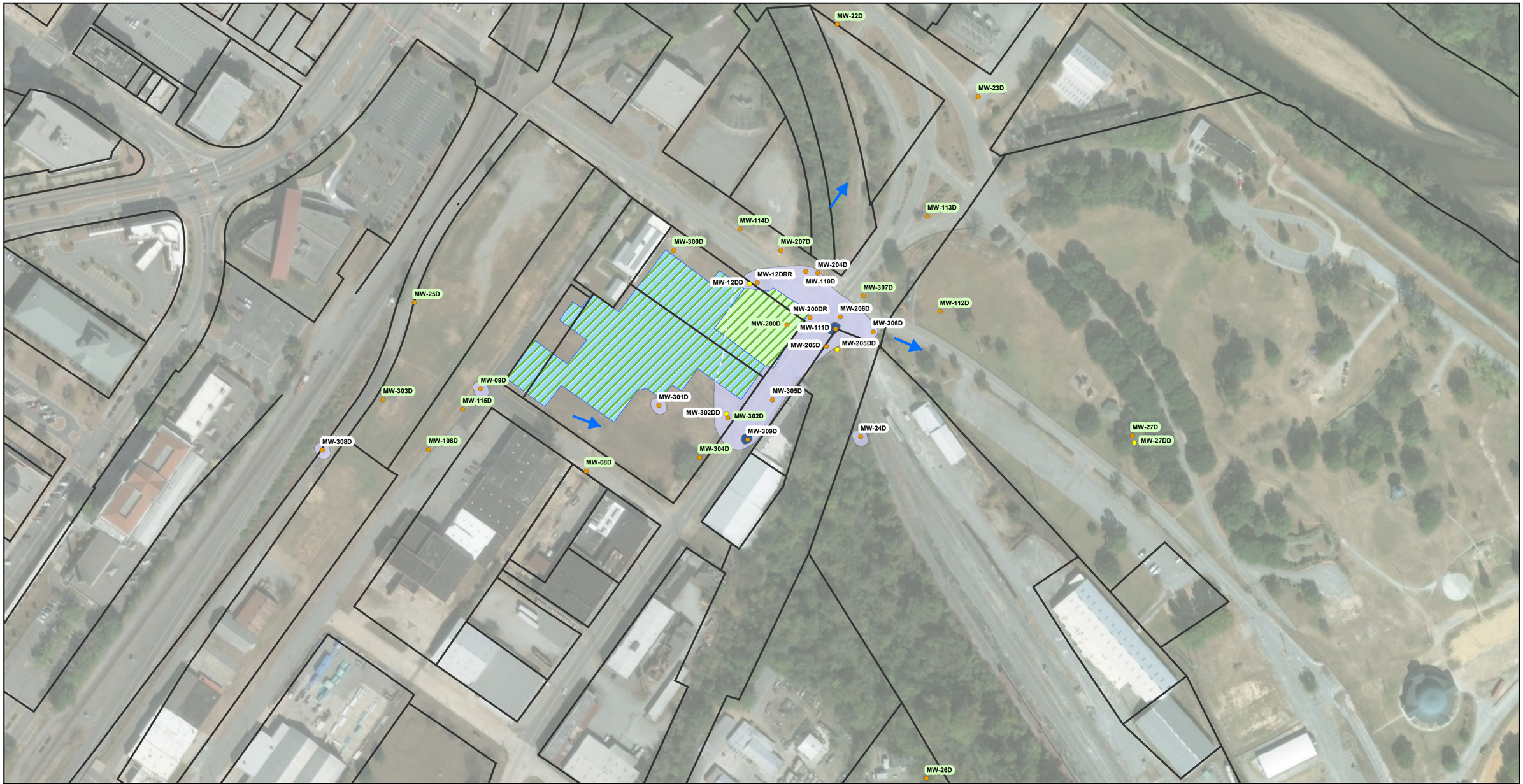
APPENDIX J
BENZENE IN BEDROCK GROUNDWATER 2000-2002
Atlanta Gas Light Company
Former Manufactured Gas Plant
Macon, Bibb County, Georgia

ERM

* Well not installed in 2000/2006. Location shown to support inferred extent of benzene as noted above.

P:\Projects\0366660 AGL Resources Macon GW Pathforward.AR\11_AGLMaconGIS\MXD\Cristian Edits 06082018\Appendix D BenzBdrk_2000_2002.mxd, REVISED: 06/28/2018, SCALE: 1:2,500 when printed at 11x17

DRAWN BY: M Gearman



Shallow Bedrock Well

Deep Bedrock Well

Property Line

Decreasing Hydraulic Potential

Sample result <5µg/L

In Situ Solidification (ISS) Mass

2002

2009

Benzene Concentration

Sample Result > 5µg/L

DNAPL Observed in Bedrock Well

NOTES:

Samples collected between 2013 and 2015

Type 2 RRS = 5 µg/L
Type 4 RRS = 9 µg/L
µg/L = migrograms per liter
DNAPL - Dense, non-aqueous phase liquid

Deep bedrock wells MW-12DD, MW-27DD, MW-205DD, and MW-302DD were not used for contouring

N

0 100 200 300 400

Feet

1:2,500

Appendix J

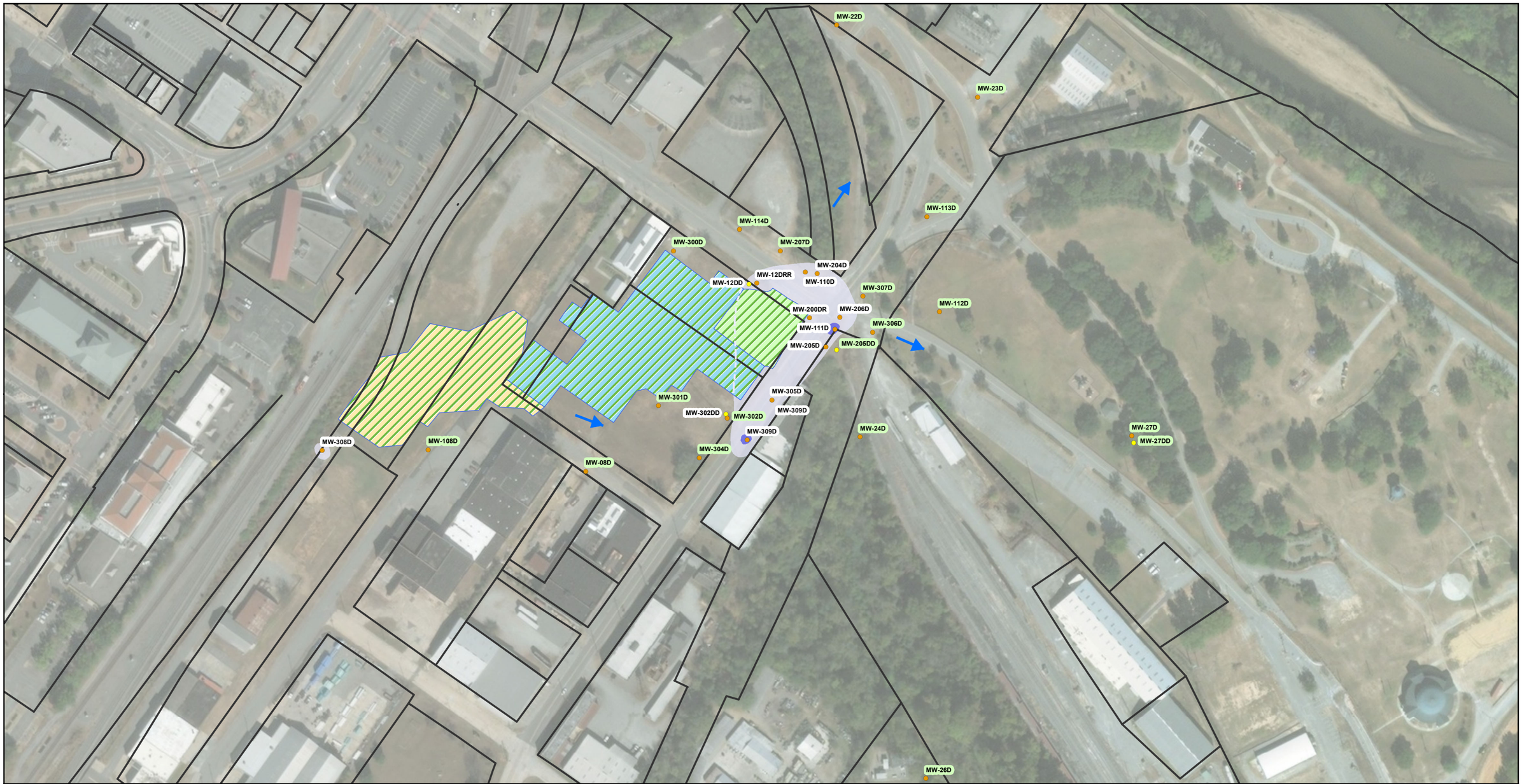
BENZENE IN BEDROCK GROUNDWATER 2013-2015

Atlanta Gas Light Company
Former Manufactured Gas Plant
Macon, Bibb County, Georgia

ERM

P:\Projects\0366660 AGL Resources Macon GW Pathforward.AR\11_AGLMaconGIS\MXD\Cristian Edits 06082018\Appendix D BenzBdrk_2013_2015.mxd, REVISED: 06/28/2018, SCALE: 1:2,500 when printed at 11x17

DRAWN BY: M Gearman



Shallow Bedrock Well

Deep Bedrock Well

Property Line

Decreasing Hydraulic Potential

Sample result ND or < Applicable Cleanup Goal

In Situ Solidification (ISS) Mass

2002

2009

2015

Benzene Concentration

Sample Result > 5µg/L

DNAPL Observed in Bedrock Well

NOTES:

All samples collected February 2018

Deep Bedrock Wells MW-12DD, MW-27DD, MW-205DD, and MW-302DD were not used in contouring.

MW-309D & MW-111D were not sampled due to the presence of DNAPL.

Isoconcentration contours are dashed when inferred.

(11) Benzene Concentration

(ND) Non Detect

N

0 100 200 300 400

Feet

1:2,500

APPENDIX J

BENZENE IN BEDROCK GROUNDWATER

FEBRUARY 2018

Atlanta Gas Light Company

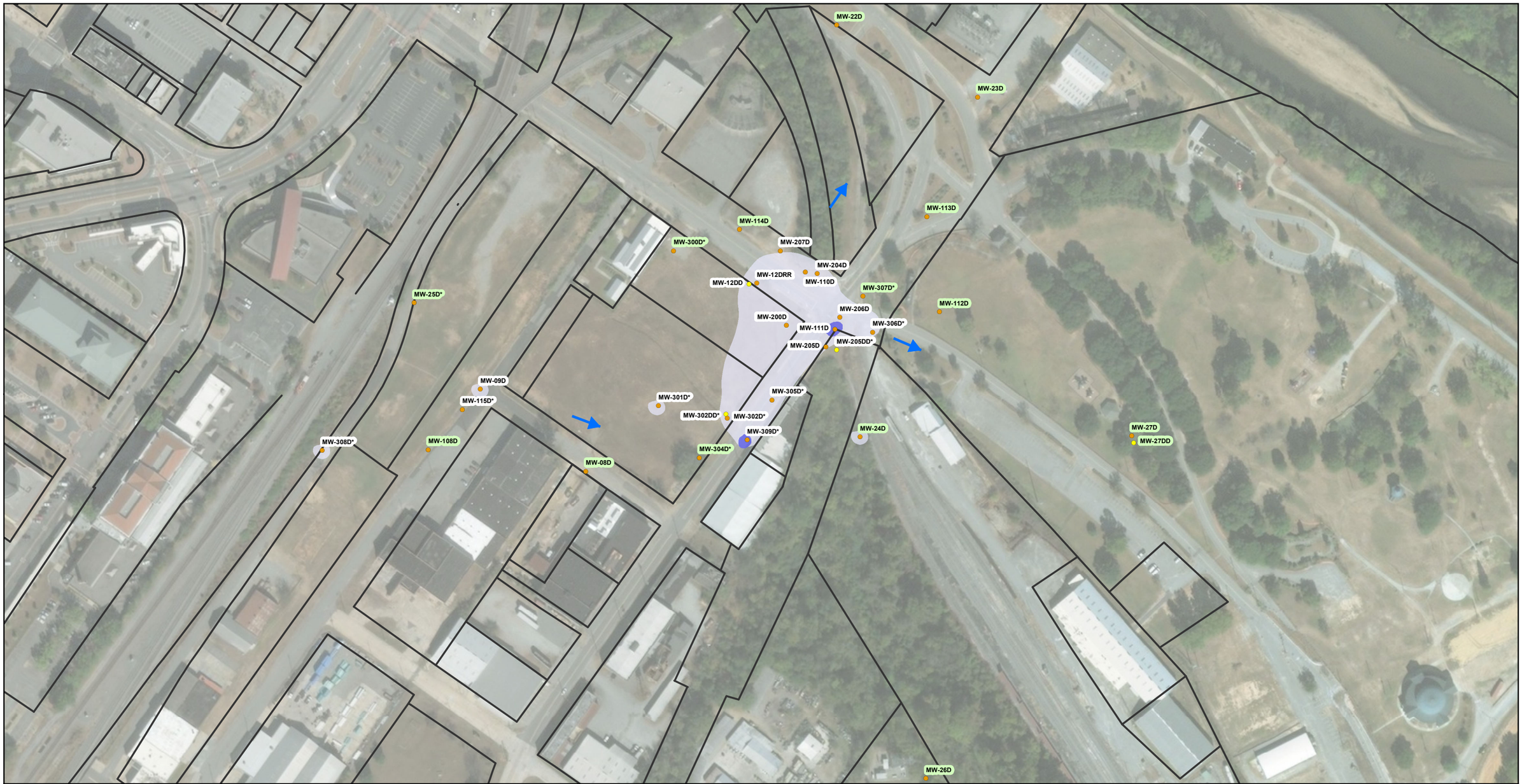
Former Manufactured Gas Plant

Macon, Bibb County, Georgia

ERM

P:\Projects\0366660 AGL Resources Macon GW Pathforward.AR\11_AGLMaconGIS\MXD\Cristian Edits 06082018\Appendix D BenzBdrk_2018.mxd, REVISED: 06/28/2018, SCALE: 1:2,500 when printed at 11x17

DRAWN BY: M Gearman



Shallow Bedrock Well
Deep Bedrock Well
Property Line

Naphthalene Concentration

Sample Results > 20µg/L
DNAPL Observed in Bedrock Well

Decreasing Hydraulic Potential

Sample result <20µg/L

NOTES:
Samples collected between 2000 and 2001

µg/L = micrograms per liter

N

0 100 200 300 400
Feet

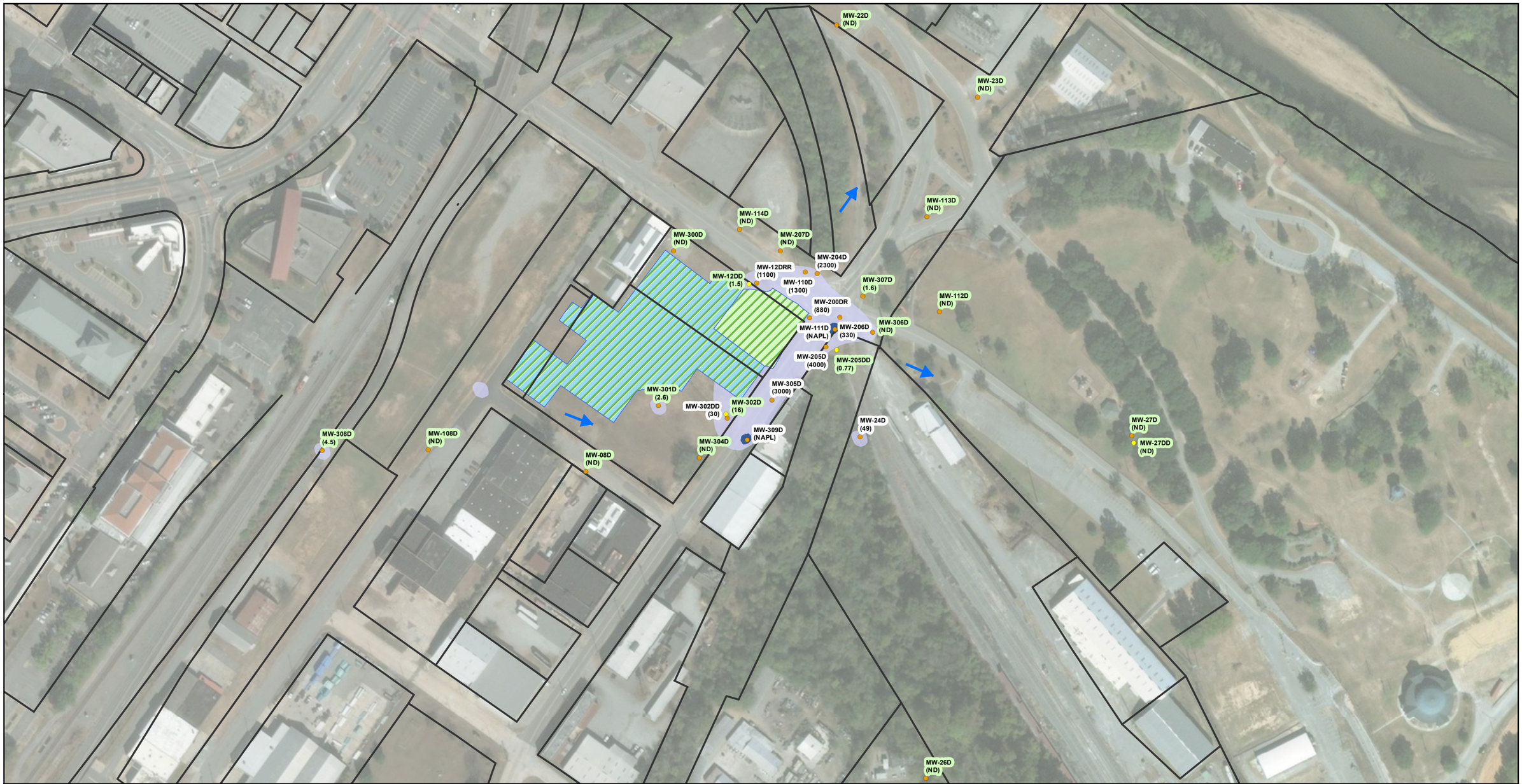
1:2,500

APPENDIX J
NAPHTHALENE IN BEDROCK GROUNDWATER 2000-2002
Atlanta Gas Light Company
Former Manufactured Gas Plant
Macon, Bibb County, Georgia

ERM

* Well not installed in 2000/2006. Location shown to support inferred extent of benzene as noted above.

P:\Projects\0366660 AGL Resources Macon GW Pathforward.AR\11_AGLMaconGIS\MXD\Cristian Edits 06082018\Appendix D NaphBdrk_2000_2002.mxd, REVISED: 06/28/2018, SCALE: 1:2,500 when printed at 11x17 DRAWN BY: M Gearman



Shallow Bedrock Well
Deep Bedrock Well
Property Line

Decreasing Hydraulic Potential

In Situ Solidification (ISS) Mass

2002
2009

Naphthalene Concentration

Sample Result >20 µg/L
DNAPL Observed in Bedrock Well

NOTES:

All samples collected February 2018
Deep Bedrock Wells MW-12DD, MW-27DD, MW-205DD, and MW-302DD were not used in contouring.
MW-309D & MW-111D were not sampled due to the presence of DNAPL.
Isoconcentration contours are dashed when inferred.

Sample result ND or < Applicable Cleanup Goal

N

0 100 200 300 400

Feet

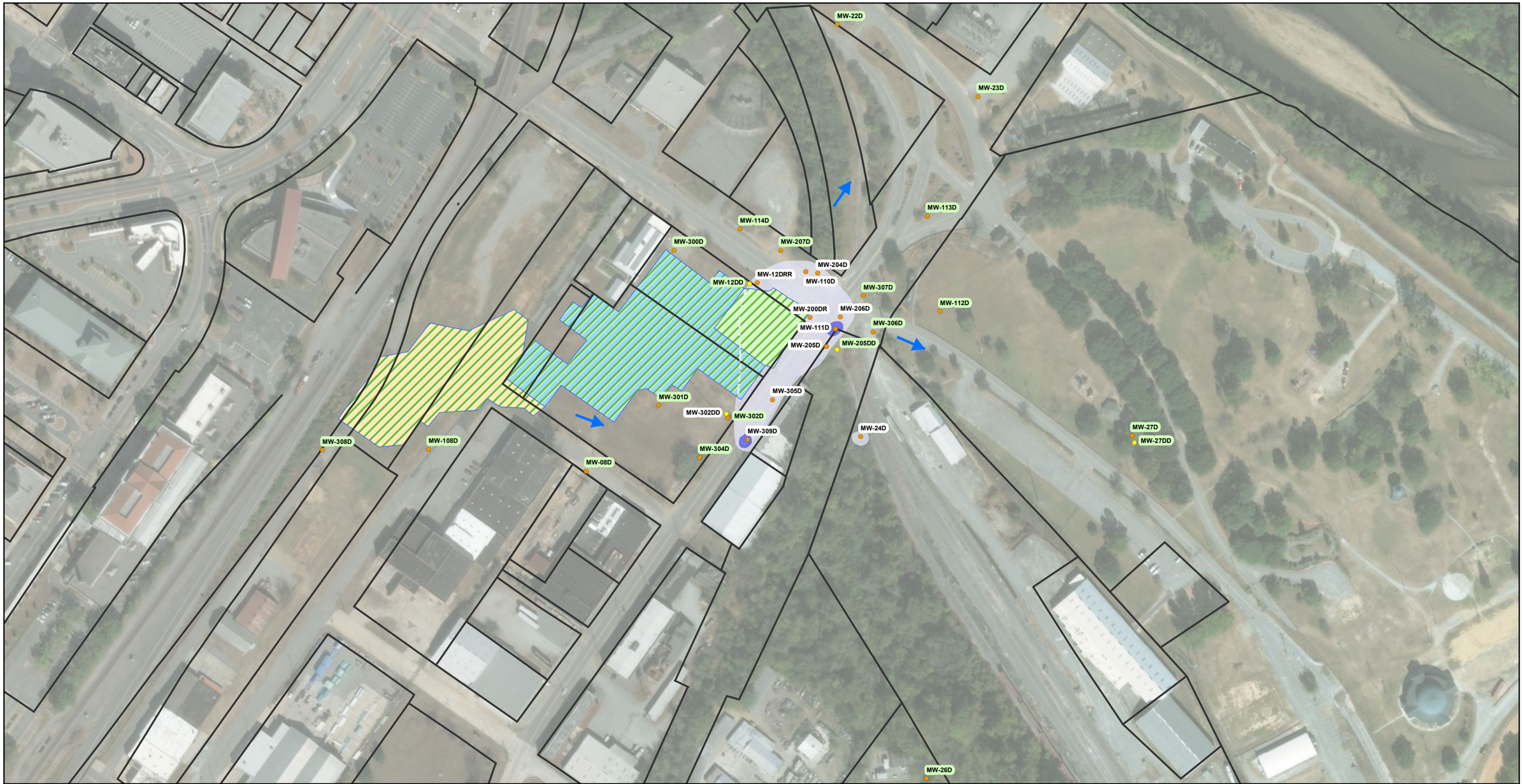
1:2,500

APPENDIX J
NAPHTHALENE IN BEDROCK GROUNDWATER
2013-2015
Atlanta Gas Light Company
Former Manufactured Gas Plant
Macon, Bibb County, Georgia

ERM

P:\Projects\0366660 AGL Resources Macon GW Pathforward.AR\11_AGLMaconGIS\MXD\Cristian Edits 06082018\Appendix D NaphBdrk_2013_2015.mxd, REVISED: 06/28/2018, SCALE: 1:2,500 when printed at 11x17

DRAWN BY: M Gearman



- Shallow Bedrock Well
- Deep Bedrock Well
- Property Line

In Situ Solidification (ISS) Mass

- 2002
- 2009
- 2015

Naphthalene Concentration

- Sample Result > 20µg/L
- DNAPL Observed in Bedrock Well

Decreasing Hydraulic Potential

NOTES:

All samples collected February 2018

Deep Bedrock Wells MW-12DD, MW-27DD, MW-205DD, and MW-302DD were not used in contouring.

MW-309D & MW-111D were not sampled due to the presence of DNAPL.

Isoconcentration contours are dashed when inferred.

Sample result ND or < Applicable Cleanup Goal

N

0 100 200 300 400

Feet

1:2,500

APPENDIX J
NAPHTHALENE IN BEDROCK GROUNDWATER
FEBRUARY 2018

Atlanta Gas Light Company
Former Manufactured Gas Plant
Macon, Bibb County, Georgia

ERM

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DRAWN BY: M Gearman

APPENDIX K – CD ONLY

Ocmulgee River Surface Water Gauge Information

Appendix K
Ocmulgee River Discharge
Mean of Daily Mean Values
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Macon, Bibb County, Georgia

Bibb County, Georgia
Hydrologic Unit Code 03070103
Latitude 32°50'19", Longitude 83°37'14" NAD83
Drainage area 2,240 square miles
Gage datum 269.80 feet above NGVD29

00060, Discharge, cubic feet per second,												
Day of month	Mean of daily mean values for each day for 90 - 92 years of record in, ft3/s (Calculation Period 1910-10-01 -> 2018-09-30)											
	Calculation period restricted by USGS staff due to special conditions at/near site											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	3,570	3,450	4,670	5,340	3,630	1,980	1,590	1,600	1,170	1,500	1,150	2,450
2	3,510	3,460	5,000	5,440	3,420	2,140	1,680	1,830	1,110	2,130	1,200	2,220
3	3,570	3,710	5,160	5,420	3,430	2,210	1,770	1,800	1,090	2,050	1,330	2,240
4	3,510	4,400	5,420	4,950	3,660	1,970	1,820	1,640	1,100	1,730	1,440	2,280
5	3,560	4,530	5,900	4,670	3,500	1,920	1,860	1,530	1,130	1,610	1,460	2,200
6	3,440	4,680	5,730	4,660	3,300	1,900	2,770	1,420	1,080	1,540	1,500	2,210
7	3,690	4,880	5,500	5,160	3,060	1,960	2,600	1,420	1,180	1,480	1,410	2,200
8	4,000	4,470	5,550	5,550	2,920	1,990	2,220	1,420	1,220	1,500	1,450	2,140
9	3,990	3,970	5,310	5,560	2,750	1,870	1,940	1,380	1,180	1,320	1,530	2,060
10	3,650	4,020	4,820	5,130	2,620	1,810	1,780	1,500	1,180	1,220	1,600	2,020
11	3,460	4,280	4,360	4,180	2,450	1,720	1,760	1,550	1,110	1,310	1,810	2,070
12	3,620	4,350	4,280	3,770	2,340	1,740	1,840	1,490	1,070	1,390	1,930	2,320
13	3,630	4,430	4,800	3,610	2,220	1,790	1,990	1,450	1,050	1,400	2,000	2,440
14	3,380	4,310	5,130	3,780	2,150	1,620	1,950	1,470	1,000	1,320	1,850	2,440
15	3,260	4,320	5,350	3,860	2,410	1,640	1,940	1,380	958	1,320	1,610	2,390
16	3,060	4,240	5,520	3,890	2,310	1,660	1,830	1,390	1,090	1,400	1,580	2,390
17	3,050	4,470	5,860	3,710	2,130	1,660	1,860	1,490	1,100	1,340	1,620	2,440
18	3,120	4,590	5,760	3,470	2,100	1,680	1,850	1,520	1,220	1,290	1,520	2,520
19	3,640	4,430	5,340	3,470	1,960	1,730	1,860	1,550	1,410	1,210	1,590	2,620
20	4,180	4,530	5,190	3,430	1,950	1,790	1,770	1,430	1,330	1,180	1,630	2,530
21	4,070	4,360	5,210	3,440	2,160	1,860	1,650	1,360	1,270	1,180	1,620	2,380
22	3,800	4,540	5,910	2,990	2,390	1,930	1,610	1,330	1,270	1,130	1,620	2,480
23	3,730	4,790	5,710	2,910	2,350	1,940	1,570	1,460	1,280	1,220	1,660	2,880
24	3,600	4,740	5,080	2,930	2,250	1,810	1,580	1,340	1,320	1,120	1,800	3,610
25	3,800	5,000	4,630	2,940	2,020	1,710	1,670	1,360	1,250	1,150	1,990	4,030
26	4,000	4,830	4,370	3,150	1,870	1,620	1,580	1,400	1,360	1,150	2,260	4,290
27	4,130	4,920	4,340	3,350	1,930	1,710	1,450	1,280	1,560	1,280	2,440	3,930
28	3,900	5,100	4,680	3,300	2,180	1,680	1,420	1,260	1,690	1,430	2,750	3,410
29	3,520	3,800	5,010	3,260	2,280	1,640	1,420	1,180	1,410	1,410	2,810	3,490
30	3,590		5,190	3,370	2,340	1,580	1,500	1,210	1,310	1,270	2,600	3,430
31	3,520		5,120		2,100		1,620	1,220		1,200		3,370
Minimum	3,050	3,450	4,280	2,910	1,870	1,580	1,420	1,180	958	1,120	1,150	2,020

APPENDIX L – CD ONLY

Draft Uniform Environmental Covenants

After Recording Return to:

Scott Laseter
Kazmarek Mowrey Cloud Laseter LLP
1230 Peachtree Street N.E., Suite 3600
Atlanta, Georgia 30309

CROSS-REFERENCE:
County: Bibb
Deed Book: 9853
Page: 346

Environmental Covenant

This instrument is an Environmental Covenant executed for the property identified below (hereinafter "the Property") as part of an environmental response project to address regulated substances released into the environment that have migrated onto the Property in the groundwater. This Environmental Covenant restricts the use of groundwater on the Property to prevent humans from coming into contact with regulated substances.

Fee Owner of Property/Grantor: **On Adams Street LLC (hereinafter "Grantor")**
1119 Adams Street
Macon, GA 31201

Grantee/Holder: Atlanta Gas Light Company
10 Peachtree Place NE
Atlanta, Georgia 30309

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1456 East Tower
Atlanta, GA 30334

Property Information:

The property subject to this Environmental Covenant is located at 230 Seventh Street in Macon, Bibb County, Georgia (hereinafter "Property"). This tract of land was conveyed on February 6, 2017 from Seventh Street Investments, LLC to On Adams St LLC, recorded in Deed Book 9853, Page 346, Bibb County Records. The Property is located in Land Lot R074 of the 11th District of Bibb County, Georgia. The Property is approximately 0.26 acres, consisting of a 1-story building, developed as a commercial building. A complete legal description of the Property is attached as Exhibit A and a map of the property is attached as Exhibit B.

The tax parcel associated with the Property is R074-0204 of Bibb County, Georgia.

Name and Location of Administrative Records:

The administrative record for the environmental response project is identified as Voluntary Remediation Program Macon MGP Site, HSI No. 10511. This record is available for review at the following location:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1054 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Declaration of Covenant:

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by Grantor, Grantee/Holder, EPD, and their respective successors and assigns.

Grantor makes the following declaration as to restrictions to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property. Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

Grantor hereby binds Grantor, its successors and assigns to the following activity and use limitation for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the Grantee/Holder and EPD.

Activity and/or Use Limitation

Groundwater Use Limitation. The use or extraction of groundwater beneath the Property for drinking water or other potable uses shall be prohibited. The use or extraction of groundwater for any other purpose besides site characterization is prohibited unless conducted under a plan approved in writing by EPD.

General Provisions

Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitation set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant.

Access. Grantor shall provide reasonable access to Grantee/Holder or its assigns to verify compliance for annual reporting to EPD.

Effective Date. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Benefit. This Environmental Covenant shall inure to the benefit of Grantee/Holder, EPD, and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, Grantee/Holder or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Termination or Modification. This Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-16-5, unless and until the Director determines that the Property is in compliance with the Type 1 or 2 Risk Reduction Standards, as defined in Section 391-3-19-.07 of the Georgia Rules of Hazardous Site Response, whereupon the Environmental Covenant may be amended or terminated, as appropriate, in accordance with O.C.G.A. § 44-16-1 *et seq*.

Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

Warranty. Grantor hereby represents and warrants to the other signatories hereto that the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided, and to carry out all obligations hereunder and in accordance with O.C.G.A. § 44-16-1 *et seq*.

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____ day of _____, 20___.

Signed, sealed, and delivered in the presence of:

_____
Unofficial Witness (*Signature*)

_____
Unofficial Witness Name (*Print*)

_____
Unofficial Witness Address (*Print*)

_____
Notary Public (*Signature*)

My Commission Expires:_____

For the Grantor:

_____
Name of Grantor (*Print*)

_____ (Seal)
Grantor's Authorized Representative (*Signature*)

_____
Authorized Representative Name (*Print*)

_____
Title of Authorized Representative (*Print*)

Dated:_____

(NOTARY SEAL)

Signed, sealed, and delivered in the presence of:

Unofficial Witness (*Signature*)

Unofficial Witness Name (*Print*)

Unofficial Witness Address (*Print*)

Notary Public (*Signature*)
My Commission Expires:_____

For Grantee/Holder:

Name of Grantee/Holder (*Print*)

(Seal)
Authorized Representative (*Signature*)

Authorized Representative Name (*Print*)

Title of Authorized Representative (*Print*)

Dated:_____
(NOTARY SEAL)

Signed, sealed, and delivered in the presence of:

Unofficial Witness (*Signature*)

Unofficial Witness Name (*Print*)

Unofficial Witness Address (*Print*)

Notary Public *(Signature)*

My Commission Expires:_____

For the State of Georgia
Environmental Protection Division:

(Seal)
(Signature)

Richard E Dunn,
Director

Dated:_____

(NOTARY SEAL)

Exhibit A
Legal Description

Exhibit B
Property Map

After Recording Return to:
Scott Laseter
Kazmarek Mowrey Cloud Laseter LLP
1230 Peachtree Street N.E., Suite 3600
Atlanta, Georgia 30309

CROSS-REFERENCE:
County: Bibb
Deed Book: 93
Page(s): 361

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq.*, as may be amended from time to time (hereinafter "Act"). This Environmental Covenant is entered into by the entities executing this Environmental Covenant and subjects the property identified below to the activity and/or use limitations and other requirements. This Environmental Covenant further grants such other rights in favor of EPD and Atlanta Gas Light Company as set forth herein.

Fee Simple Owner(s)/Grantor(s): Marillac Properties, LLC
c/o Charles Levesque
5725 Sprague Street
Philadelphia, PA 19138

Grantee/Holder with the power to enforce: Atlanta Gas Light Company
10 Peachtree Place NE
Atlanta, Georgia 30309

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1456 East Tower
Atlanta, GA 30334

The property subject to this Environmental Covenant is approximately 0.52 acres of real property located at 174 Walnut Street, at the corner of Walnut Street and Sixth Street in Macon, Bibb County, Georgia, which is further identified by the tax parcel ID number(s) below (hereinafter "Property"). The Property was conveyed on November 23, 2011 from Harmony Group Properties, LLC to Marillac Properties, LLC recorded in Deed Book 93, Page 361, of the Bibb County deed records. The Property is located in Land Lot 074 of the 11th District of Bibb County, Georgia. A legal description of the Property is attached as Exhibit A and a map of the Property is attached as Exhibit B.

The tax parcel associated with the Property are R074-0200 of Bibb County, Georgia County, Georgia.

By this instrument, Grantee Atlanta Gas Light Company hereby revokes, rescinds and otherwise terminates that certain "Declaration of Restrictive Covenants and Notice" concerning the Property dated March 5, 2001, and recorded at Deed Book 4685, Page 280, of the Bibb County deed records.

Environmental Covenant Runs with the Land and is Perpetual

Pursuant to the Act, this Environmental Covenant shall run with the land and shall be perpetual unless terminated or amended pursuant to terms herein or in accordance with provisions of the Act. This Environmental Covenant shall be binding upon Marillac Properties, LLC, Atlanta Gas Light Company, and all successors, assigns and transferees of any interest in the Property or any portion thereof.

Administrative Records

This Environmental Covenant imposes activity and/or use limitations and other requirements on the Property that arise under corrective action performed in connection with the Voluntary Remediation Program Macon MGP Site, HSI Site No. 10511. Records pertaining to this corrective action are available at the following EPD location(s):

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1054 East Tower
Atlanta, GA 30334
Monday-Friday 8:00 AM to 4:30 PM, excluding state holidays

Notice: This Property has been listed on the State's Hazardous Site Inventory at HSI #10511 and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the Property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act.

Activity and Use Limitations. The Property is subject to the following activity and/or use limitations:

A. Real Property. The Property shall not be used for residential uses, as defined in Section 391-3-19-.02 of the Rules as of the date of this Environmental Covenant, that could result in exposure to resident individuals to soils beneath the upper two (2) feet of soil on the Property unless it is first demonstrated to EPD's satisfaction that any such change in use will not result in exposure to regulated substances above applicable risk reduction standards or to unacceptable risks of vapor intrusion as measured or evaluated by methods in use by EPD at the time of any such change in use. Any activity on the Property that may result in the release or exposure above applicable risk reduction standards to the regulated substances that were addressed as part of the Corrective Action, or which may create a new exposure pathway to those regulated substances, is prohibited. This Environmental Covenant is prepared in anticipation that the boundaries of the tax parcel currently comprising the Property may be modified in the future. In such event, any activity that would disturb the in-situ solidification (ISS) mass depicted on Exhibit B and described further in the Corrective Action Plan submitted on October 2, 2000 (revised December 1,

2000) and all modifications submitted thereafter, without prior notice to and approval from EPD, is prohibited.

B. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited.

C. Permanent Markers. In the event the boundaries of the tax parcel currently comprising the Property are modified in the future, permanent markers on each side of any portion of the Property subject to Type 5 risk reduction standards shall be installed and maintained that delineate the restricted area as specified in Section 391-3-19-.07(10) of the Rules. Disturbance or removal of any such markers is prohibited.

Other Requirements. The Property is subject to the following additional requirements.

A. Notice of Limitations and Requirements in Future Conveyances. Each instrument hereafter conveying any interest in the Property or any portion thereof that may affect the activity and use limitations described herein shall include a statement that the Property is subject to this Environmental Covenant (and any amendments thereto), the location (County, Deed Book and Page) in the deed records where this Environmental Covenant (and any amendments thereto) is recorded and a copy of this Environmental Covenant (and any amendments thereto).

B. Notice to EPD of Future Conveyances. Within thirty (30) days after each conveyance of a fee simple interest in the Property or any portion thereof, a notice shall be sent to EPD and Atlanta Gas Light Company. The notice shall include the new owner's name, address, telephone number and other pertinent contact information, the date of the conveyance and the location (County, Deed Book and Page) where the conveyance is recorded, and, if the conveyance is a portion of the Property, a survey map showing the boundaries of the real property conveyed.

C. Notice of Change of Use. If such activity will materially affect any required monitoring or maintenance of any institutional or engineering controls described herein, the owner of the Property must provide to EPD thirty (30) days' advance written notice of the owner's intent to change the use of the Property, to apply for a building permit for construction at the Property, or to perform any site work.

Environmental Covenant Does Not Authorize Use Otherwise Prohibited

Pursuant to the Act, this Environmental Covenant shall not be construed to authorize a use of the Property that is otherwise prohibited by zoning, ordinance, local law or general law or by a recorded instrument that has priority over this Environmental Covenant.

Rights of Access and Enforcement

Authorized representatives of EPD and Atlanta Gas Light Company shall have the right to enter the Property at reasonable times in connection with implementation, compliance, or enforcement of this Environmental Covenant, including but not limited to the right to conduct inspections, examine related records, or to take samples.

This Environmental Covenant shall be enforceable by EPD, Atlanta Gas Light Company, and other parties as provided in the Act. Such rights of access and enforcement herein shall not limit EPD's authority under other applicable law.

No Interest in Real Property in EPD

EPD's rights under this Environmental Covenant and the Act shall not be considered an interest in real property.

Recording of Environmental Covenant and Service on Other Persons

Within thirty (30) days after execution of this Environmental Covenant by the Director of EPD, Marillac Properties, LLC, shall record the Environmental Covenant in every county in which any portion of the Property is located in accordance with the law governing the recording and priority of interests in real property. Upon recording of the Environmental Covenant, Marillac Properties, LLC shall provide in a manner deemed acceptable by EPD a copy of the executed, recorded Environmental Covenant to each of the persons or entities identified in O.C.G.A. § 44-16-7.

Representations and Warranties by Grantor(s). Marillac Properties, LLC represents and warrants that all of the following are true and correct:

A. Marillac Properties, LLC holds fee simple title to the Property.
B. Marillac Properties, LLC has the authority to enter into this Environmental Covenant, has the authority to grant any rights granted by it within, has the ability to carry out the obligations described within and, based upon information and belief after reasonable inquiry, does not know of any anticipated material change in the practices, ownership, or authority of Marillac Properties, LLC that will alter this representation and warranty.
C. The execution and delivery of this Environmental Covenant and carrying out the obligations described within will not conflict with any of the provisions of the organizational documents, operating agreement of Marillac Properties, LLC nor will it violate, contravene and/or constitute a breach or default under any agreement, contract, order or instrument to which Marillac Properties, LLC is a party or by which Marillac Properties, LLC may be bound.
D. There are no persons with existing interests other than fee simple in the Property;
E. This Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by zoning, ordinance, local law or general law or by a recorded instrument that has priority over this Environmental Covenant.
F. At least thirty (30) days prior to presenting this Environmental Covenant to EPD for execution, Marillac Properties, LLC served a copy of the proposed final text of this Environmental Covenant on all persons or entities required to be noticed in accordance with O.C.G.A. § 44-16-7.

Submission of Required Documents and Communications

Documents and communications required by this Environmental Covenant shall be submitted to:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1054 East Tower
Atlanta, GA 30334

With a copy to:

Atlanta Gas Light Company
10 Peachtree Place NE
Atlanta, Georgia 30309

EPD's Environmental Covenants Registry

This Environmental Covenant and any amendment thereto or termination thereof may be included in EPD's registry for environmental covenants.

Severability

Should any provision of this Environmental Covenant be found by a court of competent jurisdiction to be invalid and/or unenforceable in any respect, the remaining provisions shall continue in full force and effect.

Effective Date

This Environmental Covenant shall be effective on the date the fully executed Environmental Covenant is recorded in accordance with O.C.G.A. § 44-16-8(a).

Signed, sealed, and delivered in the presence of:

_____
Unofficial Witness (*Signature*)

_____
Unofficial Witness Name (*Print*)

_____

_____
Unofficial Witness Address (*Print*)

_____
Notary Public (*Signature*)

My Commission Expires:_____

For the Grantor:

_____
Name of Grantor (*Print*)

_____ (Seal)
Grantor's Authorized Representative (*Signature*)

_____
Authorized Representative Name (*Print*)

_____
Title of Authorized Representative (*Print*)

Dated:_____
(NOTARY SEAL)

Signed, sealed, and delivered in the presence of:

For the Grantee/Holder:

_____
Unofficial Witness (*Signature*)

_____
Name of Grantee/Holder (*Print*)

_____
Unofficial Witness Name (*Print*)

_____ (Seal)
Authorized Representative (*Signature*)

_____

_____
Authorized Representative Name (*Print*)

_____
Unofficial Witness Address (*Print*)

_____
Title of Authorized Representative (*Print*)

_____
Notary Public (*Signature*)

Dated:_____

My Commission Expires:_____

(NOTARY SEAL)

Signed, sealed, and delivered in the presence of:

For the State of Georgia
Environmental Protection Division:

_____
Unofficial Witness (*Signature*)

_____ (Seal)
(Signature)

_____
Unofficial Witness Name (*Print*)

Richard E. Dunn,
Director

_____

Dated:_____

_____
Unofficial Witness Address (*Print*)

(NOTARY SEAL)

_____
Notary Public *(Signature)*

My Commission Expires:_____

Exhibit A
Legal Description of Property

Exhibit B
Map of Property

After Recording Return to:
Scott Laseter
Kazmarek Mowrey Cloud Laseter LLP
1230 Peachtree Street N.E., Suite 3600
Atlanta, Georgia 30309

CROSS-REFERENCE:
County: Bibb
Deed Book: 7344
Page(s): 49 and 62

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq.*, as may be amended from time to time (hereinafter "Act"). This Environmental Covenant is entered into by the entities executing this Environmental Covenant and subjects the property identified below to the activity and/or use limitations and other requirements. This Environmental Covenant further grants such other rights in favor of EPD and Atlanta Gas Light Company as set forth herein.

Fee Simple Owner(s)/Grantor(s): Macon Urban Development Authority
200 Cherry St, Suite 300
Macon, GA 31201

Grantee/Holder with the power to enforce: Atlanta Gas Light Company
10 Peachtree Place NE
Atlanta, Georgia 30309

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1456 East Tower
Atlanta, GA 30334

The properties subject to this Environmental Covenant are three tracts totaling approximately 4.7 acres of real property located at 137 Mulberry Street, 122 Walnut Street, and attached lot (UTIL-143T) on the block surrounded by Mulberry, 6th, 7th and Walnut Streets in Macon, Bibb County, Georgia, which are further identified by the tax parcel ID number(s) below (hereinafter collectively "Property"). The Property was conveyed on November 18, 2016 to Macon Urban Development Authority (MUDA) and the conveyances are recorded in Deed Book 7344, Pages 49 and 62, of the Bibb County deed records. The Property is located in Land Lots 6, 7, and 8 of the 11th District of Bibb County, Georgia. A legal description of the Property is attached as Exhibit A and a map of the Property is attached as Exhibit B.

The tax parcels associated with the Property are R074-0223-OC15-1A, R074-0205-OC15-6A, and RO74-UTIL-OC15-4A of Bibb County, Georgia.

By this instrument, Grantee Atlanta Gas Light Company hereby revokes, rescinds and otherwise terminates that certain "Declaration of Restrictive Covenants and Notice" concerning the Property dated March 1, 2001, and recorded at Deed Book 4863, Page 260, of the Bibb County deed records.

Environmental Covenant Runs with the Land and is Perpetual

Pursuant to the Act, this Environmental Covenant shall run with the land and shall be perpetual unless terminated or amended pursuant to terms herein or in accordance with provisions of the Act. This Environmental Covenant shall be binding upon Macon Urban Development Authority, Atlanta Gas Light Company, and all successors, assigns and transferees of any interest in the Property or any portion thereof.

Administrative Records

This Environmental Covenant imposes activity and/or use limitations and other requirements on the Property that arise under corrective action performed in connection with the Voluntary Remediation Program Macon MGP Site, HSI Site No. 10511. Records pertaining to this corrective action are available at the following EPD location(s):

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1054 East Tower
Atlanta, GA 30334
Monday-Friday 8:00 AM to 4:30 PM, excluding state holidays

Notice: This Property has been listed on the State's Hazardous Site Inventory at HSI #10511 and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the Property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act.

Activity and Use Limitations. The Property is subject to the following activity and/or use limitations:

A. Real Property. The Property shall not be used for residential uses, as defined in Section 391-3-19-.02 of the Rules as of the date of this Environmental Covenant, that could result in exposure to resident individuals to soils beneath the upper two (2) feet of soil on the Property unless it is first demonstrated to EPD's satisfaction that any such change in use will not result in exposure to regulated substances above applicable risk reduction standards or to unacceptable risks of vapor intrusion as measured or evaluated by methods in use by EPD at the time of any such change in use. Any activity on the Property that may result in the release or exposure above applicable risk reduction standards to the regulated substances that were addressed as part of the Corrective Action, or which may create a new exposure pathway to those regulated substances, is prohibited. In addition, any activity that would disturb the ISS mass depicted on Exhibit B and described further in the Soil and Groundwater Corrective Action Plan submitted on October 2, 2000 (revised December 1,

2000, February 6, 2001, and December 20, 2001) and all modifications submitted thereafter, without prior notice to and approval from EPD, is prohibited.

B. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited.

C. Permanent Markers. Permanent markers on each side of the Property shall be installed and maintained that delineate the restricted area as specified in Section 391-3-19-.07(10) of the Rules. Disturbance or removal of such markers is prohibited.

Other Requirements. The Property is subject to the following additional requirements.

A. Notice of Limitations and Requirements in Future Conveyances. Each instrument hereafter conveying any interest in the Property or any portion thereof that may affect the activity and use limitations described herein shall include a statement that the Property is subject to this Environmental Covenant (and any amendments thereto), the location (County, Deed Book and Page) in the deed records where this Environmental Covenant (and any amendments thereto) is recorded and a copy of this Environmental Covenant (and any amendments thereto).

B. Notice to EPD of Future Conveyances. Within thirty (30) days after each conveyance of a fee simple interest in the Property or any portion thereof, a notice shall be sent to EPD and Atlanta Gas Light Company. The notice shall include the new owner's name, address, telephone number and other pertinent contact information, the date of the conveyance and the location (County, Deed Book and Page) where the conveyance is recorded, and, if the conveyance is a portion of the Property, a survey map showing the boundaries of the real property conveyed.

C. Notice of Change of Use. If such activity will materially affect any required monitoring or maintenance of any institutional or engineering controls described herein, the owner of the Property must provide to EPD thirty (30) days' advance written notice of the owner's intent to change the use of the Property, to apply for a building permit for construction at the Property, or to perform any site work.

Environmental Covenant Does Not Authorize Use Otherwise Prohibited

Pursuant to the Act, this Environmental Covenant shall not be construed to authorize a use of the Property that is otherwise prohibited by zoning, ordinance, local law or general law or by a recorded instrument that has priority over this Environmental Covenant.

Rights of Access and Enforcement

Authorized representatives of EPD and Atlanta Gas Light Company shall have the right to enter the Property at reasonable times in connection with implementation, compliance, or enforcement of this Environmental Covenant, including but not limited to the right to conduct inspections, examine related records, or to take samples.

This Environmental Covenant shall be enforceable by EPD, Atlanta Gas Light Company. and other parties as provided in the Act. Such rights of access and enforcement herein shall not limit EPD's authority under other applicable law.

No Interest in Real Property in EPD

EPD's rights under this Environmental Covenant and the Act shall not be considered an interest in real property.

Recording of Environmental Covenant and Service on Other Persons

Within thirty (30) days after execution of this Environmental Covenant by the Director of EPD, Macon Urban Development Authority, shall record the Environmental Covenant in every county in which any portion of the Property is located in accordance with the law governing the recording and priority of interests in real property. Upon recording of the Environmental Covenant, Macon Urban Development Authority shall provide in a manner deemed acceptable by EPD a copy of the executed, recorded Environmental Covenant to each of the persons or entities identified in O.C.G.A. § 44-16-7.

Representations and Warranties by Grantor(s). Macon Urban Development Authority represents and warrants that all of the following are true and correct:

A. Macon Urban Development Authority holds fee simple title to the Property.
B. Macon Urban Development Authority has the authority to enter into this Environmental Covenant, has the authority to grant any rights granted by it within, has the ability to carry out the obligations described within and, based upon information and belief after reasonable inquiry, does not know of any anticipated material change in the practices, ownership, or authority of Macon Urban Development Authority that will alter this representation and warranty.
C. The execution and delivery of this Environmental Covenant and carrying out the obligations described within will not conflict with any of the provisions of the organizational documents, operating agreement of Macon Urban Development Authority nor will it violate, contravene and/or constitute a breach or default under any agreement, contract, order or instrument to which Macon Urban Development Authority is a party or by which Macon Urban Development Authority may be bound.
D. There are no persons with existing interests other than fee simple in the Property;
E. This Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by zoning, ordinance, local law or general law or by a recorded instrument that has priority over this Environmental Covenant.
F. At least thirty (30) days prior to presenting this Environmental Covenant to EPD for execution, Macon Urban Development Authority served a copy of the proposed final text of this Environmental Covenant on all persons or entities required to be noticed in accordance with O.C.G.A. § 44-16-7.

Submission of Required Documents and Communications

Documents and communications required by this Environmental Covenant shall be submitted to:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1054 East Tower
Atlanta, GA 30334

With a copy to:

Atlanta Gas Light Company
10 Peachtree Place NE
Atlanta, Georgia 30309

EPD's Environmental Covenants Registry

This Environmental Covenant and any amendment thereto or termination thereof may be included in EPD's registry for environmental covenants.

Severability

Should any provision of this Environmental Covenant be found by a court of competent jurisdiction to be invalid and/or unenforceable in any respect, the remaining provisions shall continue in full force and effect.

Effective Date

This Environmental Covenant shall be effective on the date the fully executed Environmental Covenant is recorded in accordance with O.C.G.A. § 44-16-8(a).

Signed, sealed, and delivered in the presence of:

_____
Unofficial Witness (*Signature*)

_____
Unofficial Witness Name (*Print*)

_____

_____
Unofficial Witness Address (*Print*)

_____
Notary Public (*Signature*)

My Commission Expires:_____

For the Grantor:

_____
Name of Grantor (*Print*)

_____ (Seal)
Grantor's Authorized Representative (*Signature*)

_____
Authorized Representative Name (*Print*)

_____
Title of Authorized Representative (*Print*)

Dated:_____
(NOTARY SEAL)

Signed, sealed, and delivered in the presence of:

Unofficial Witness (*Signature*)

Unofficial Witness Name (*Print*)

Unofficial Witness Address (*Print*)

Notary Public (*Signature*)

My Commission Expires:_____

For the Grantee/Holder:

Name of Grantee/Holder (*Print*)

(Seal)

Authorized Representative (*Signature*)

Authorized Representative Name (*Print*)

Title of Authorized Representative (*Print*)

Dated:_____

(NOTARY SEAL)

Signed, sealed, and delivered in the presence of:

Unofficial Witness (*Signature*)

Unofficial Witness Name (*Print*)

Unofficial Witness Address (*Print*)

Notary Public *(Signature)*

My Commission Expires:_____

For the State of Georgia
Environmental Protection Division:

(Seal)

(Signature)

Richard E. Dunn,
Director

Dated:_____

(NOTARY SEAL)

Exhibit A
Legal Description of Property

Exhibit B
Map of Property

After Recording Return to:

Scott Laseter
Kazmarek Mowrey Cloud Laseter LLP
1230 Peachtree Street N.E., Suite 3600
Atlanta, Georgia 30309

CROSS-REFERENCE:

County: Bibb
Deed Book: 9038
Page(s): 9

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq.*, as may be amended from time to time (hereinafter "Act"). This Environmental Covenant is entered into by the entities executing this Environmental Covenant and subjects the property identified below to the activity and/or use limitations and other requirements. This Environmental Covenant further grants such other rights in favor of EPD and Atlanta Gas Light Company as set forth herein.

Fee Simple Owner(s)/Grantor(s): Prodigy Holdings LLC
454 Terminal Avenue, Suite A
Macon, GA 31201

Grantee/Holder with the power to enforce: Atlanta Gas Light Company
10 Peachtree Place NE
Atlanta, Georgia 30309

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1456 East Tower
Atlanta, GA 30334

The property subject to this Environmental Covenant is a portion of the parcel of land located at 310 Sixth Street in Macon, Bibb County, Georgia, which is further identified by the tax parcel ID number(s) below (hereinafter "Parcel"). This tract of land was conveyed on June 25, 2013 from UDC Realty LLC to Prodigy Holdings, LLC recorded in Deed Book 9038, Page 9, Bibb County Records. The Parcel is located in Land Lot 081 of the 11th District of Bibb County, Georgia. A

legal description of the Parcel is attached as Exhibit A and a map depicting the portion of the Parcel subject to this Environmental Covenant (the "Property") is attached as Exhibit B.

The tax parcel associated with the Property is R081-0135 of Bibb County, Georgia.

Environmental Covenant Runs with the Land and is Perpetual

Pursuant to the Act, this Environmental Covenant shall run with the land and shall be perpetual unless terminated or amended pursuant to terms herein or in accordance with provisions of the Act. This Environmental Covenant shall be binding upon Prodigy Holdings LLC, Atlanta Gas Light Company, and all successors, assigns and transferees of any interest in the Property or any portion thereof.

Administrative Records

This Environmental Covenant imposes activity and/or use limitations and other requirements on the Property that arise under corrective action performed in connection with the Voluntary Remediation Program Macon MGP Site, HSI Site No. 10511. Records pertaining to this corrective action are available at the following EPD location(s):

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1054 East Tower
Atlanta, GA 30334
Monday-Friday 8:00 AM to 4:30 PM, excluding state holidays

Notice: This Property has been listed on the State's Hazardous Site Inventory at HSI #10511 and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the Property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act.

Activity and Use Limitations. The Property is subject to the following activity and/or use limitations:

A. Real Property. The Property shall not be used for residential uses, as defined in Section 391-3-19-.02 of the Rules as of the date of this Environmental Covenant, nor shall it be used in any manner that could result in exposure to regulated substances above applicable risk reduction standards or to unacceptable risks of vapor intrusion as measured or evaluated by methods in use by EPD at the time of any such proposed use. Any activity on the Property that may result in the release or exposure above applicable risk reduction standards to the regulated substances that were addressed as part of the Corrective Action, or which may create a new exposure pathway to those regulated substances, is prohibited.

B. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited.

C. Permanent Markers. Permanent markers on each side of the Property shall be installed and maintained that delineate the restricted area as specified in Section 391-3-19-.07(10) of the Rules. Disturbance or removal of such markers is prohibited.

Other Requirements. The Property is subject to the following additional requirements.

A. Notice of Limitations and Requirements in Future Conveyances. Each instrument hereafter conveying any interest in the Property or any portion thereof that may affect the activity and use limitations described herein shall include a statement that the Property is subject to this Environmental Covenant (and any amendments thereto), the location (County, Deed Book and Page) in the deed records where this Environmental Covenant (and any amendments thereto) is recorded and a copy of this Environmental Covenant (and any amendments thereto).

B. Notice to EPD of Future Conveyances. Within thirty (30) days after each conveyance of a fee simple interest in the Property or any portion thereof, a notice shall be sent to EPD and Atlanta Gas Light Company. The notice shall include the new owner's name, address, telephone number and other pertinent contact information, the date of the conveyance and the location (County, Deed Book and Page) where the conveyance is recorded, and, if the conveyance is a portion of the Property, a survey map showing the boundaries of the real property conveyed.

C. Notice of Change of Use. If such activity will materially affect any required monitoring or maintenance of any institutional or engineering controls described herein, the owner of the Property must provide to EPD thirty (30) days' advance written notice of the owner's intent to change the use of the Property, to apply for a building permit for construction at the Property, or to perform any site work.

Environmental Covenant Does Not Authorize Use Otherwise Prohibited

Pursuant to the Act, this Environmental Covenant shall not be construed to authorize a use of the Property that is otherwise prohibited by zoning, ordinance, local law or general law or by a recorded instrument that has priority over this Environmental Covenant.

Rights of Access and Enforcement

Authorized representatives of EPD and Atlanta Gas Light Company shall have the right to enter the Property at reasonable times in connection with implementation, compliance, or enforcement of this Environmental Covenant, including but not limited to the right to conduct inspections, examine related records, or to take samples.

This Environmental Covenant shall be enforceable by EPD, Atlanta Gas Light Company, and other parties as provided in the Act. Such rights of access and enforcement herein shall not limit EPD's authority under other applicable law.

No Interest in Real Property in EPD

EPD's rights under this Environmental Covenant and the Act shall not be considered an interest in real property.

Recording of Environmental Covenant and Service on Other Persons

Within thirty (30) days after execution of this Environmental Covenant by the Director of EPD, Prodigy Holdings LLC, shall record the Environmental Covenant in every county in which any portion of the Property is located in accordance with the law governing the recording and priority of interests in real property. Upon recording of the Environmental Covenant, Prodigy Holdings LLC shall provide in a manner deemed acceptable by EPD a copy of the executed, recorded Environmental Covenant to each of the persons or entities identified in O.C.G.A. § 44-16-7.

Representations and Warranties by Grantor(s). Prodigy Holdings LLC represents and warrants that all of the following are true and correct:

A. Prodigy Holdings LLC holds fee simple title to the Property.
B. Prodigy Holdings LLC has the authority to enter into this Environmental Covenant, has the authority to grant any rights granted by it within, has the ability to carry out the obligations described within and, based upon information and belief after reasonable inquiry, does not know of any anticipated material change in the practices, ownership, or authority of Prodigy Holdings LLC that will alter this representation and warranty.
C. The execution and delivery of this Environmental Covenant and carrying out the obligations described within will not conflict with any of the provisions of the organizational documents, operating agreement of Prodigy Holdings LLC nor will it violate, contravene and/or constitute a breach or default under any agreement, contract, order or instrument to which Prodigy Holdings LLC is a party or by which Prodigy Holdings LLC may be bound.
D. There are no persons with existing interests other than fee simple in the Property;
E. This Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by zoning, ordinance, local law or general law or by a recorded instrument that has priority over this Environmental Covenant.
F. At least thirty (30) days prior to presenting this Environmental Covenant to EPD for execution, Prodigy Holdings LLC served a copy of the proposed final text of this Environmental Covenant on all persons or entities required to be noticed in accordance with O.C.G.A. § 44-16-7.

Submission of Required Documents and Communications

Documents and communications required by this Environmental Covenant shall be submitted to:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1054 East Tower
Atlanta, GA 30334

With a copy to:

Atlanta Gas Light Company
10 Peachtree Place NE
Atlanta, Georgia 30309

EPD's Environmental Covenants Registry

This Environmental Covenant and any amendment thereto or termination thereof may be included in EPD's registry for environmental covenants.

Severability

Should any provision of this Environmental Covenant be found by a court of competent jurisdiction to be invalid and/or unenforceable in any respect, the remaining provisions shall continue in full force and effect.

Effective Date

This Environmental Covenant shall be effective on the date the fully executed Environmental Covenant is recorded in accordance with O.C.G.A. § 44-16-8(a).

Signed, sealed, and delivered in the presence of:

For the Grantor:

Unofficial Witness (*Signature*)

Name of Grantor (*Print*)

Unofficial Witness Name (*Print*)

(Seal)

Grantor's Authorized Representative (*Signature*)

Authorized Representative Name (*Print*)

Unofficial Witness Address (*Print*)

Title of Authorized Representative (*Print*)

Notary Public (*Signature*)

Dated:_____

My Commission Expires:_____

(NOTARY SEAL)

Signed, sealed, and delivered in the presence of:

For the Grantee/Holder:

Unofficial Witness (*Signature*)

Name of Grantee/Holder (*Print*)

Unofficial Witness Name (*Print*)

(Seal)

Authorized Representative (*Signature*)

Authorized Representative Name (*Print*)

Unofficial Witness Address (*Print*)

Title of Authorized Representative (*Print*)

Notary Public (*Signature*)

Dated:_____

My Commission Expires:_____

(NOTARY SEAL)

Signed, sealed, and delivered in the presence of:

For the State of Georgia
Environmental Protection Division:

_____ (Seal)
(Signature)

Richard E. Dunn,
Director

Dated:_____

(NOTARY SEAL)

_____
Unofficial Witness (*Signature*)

_____
Unofficial Witness Name (*Print*)

_____

_____
Unofficial Witness Address (*Print*)

_____
Notary Public *(Signature)*

My Commission Expires:_____

Exhibit A
Legal Description of Property

Exhibit B
Map of Property

After Recording Return to:

Scott Laseter
Kazmarek Mowrey Cloud Laseter LLP
1230 Peachtree Street N.E., Suite 3600
Atlanta, Georgia 30309

CROSS-REFERENCE:
County: Bibb
Deed Book: 9068
Page: 23-32

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq.*, as may be amended from time to time (hereinafter "Act"). This Environmental Covenant is entered into by the entities executing this Environmental Covenant and subjects the property identified below to the activity and/or use limitations and other requirements. This Environmental Covenant further grants such other rights in favor of EPD and Atlanta Gas Light Company as set forth herein.

Fee Simple Owner(s)/Grantor(s): Atlanta Gas Light Company
10 Peachtree Place NE
Atlanta, Georgia 30309

Grantee/Holder with the power to enforce: Atlanta Gas Light Company
10 Peachtree Place NE
Atlanta, Georgia 30309

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1456 East Tower
Atlanta, GA 30334

The property subject to this Environmental Covenant is approximately 1.73 acres of real property located at 306 Terminal Avenue at the corner of Walnut Street and Terminal Avenue in Macon, Bibb County, Georgia, which is further identified by the tax parcel ID number(s) below (hereinafter "Property"). The Property was conveyed on July 31, 2013 from Harmony Group Properties, LLC to Atlanta Gas Light Company recorded in Deed Book 9068, Pages 23-32, of the Bibb County deed records. The Property is

located in Land Lot 073 of the 11th District of Bibb County, Georgia. A legal description of the Property is attached as Exhibit A and a map of the Property is attached as Exhibit B.

The tax parcel associated with the Property is R073-0384 of Bibb County, Georgia.

Environmental Covenant Runs with the Land and is Perpetual

Pursuant to the Act, this Environmental Covenant shall run with the land and shall be perpetual unless terminated or amended pursuant to terms herein or in accordance with provisions of the Act. This Environmental Covenant shall be binding upon Atlanta Gas Light Company, and all successors, assigns and transferees of any interest in the Property or any portion thereof.

Administrative Records

This Environmental Covenant imposes activity and/or use limitations and other requirements on the Property that arise under corrective action performed in connection with the Voluntary Remediation Program Macon MGP Site, HSI Site No. 10511. Records pertaining to this corrective action are available at the following EPD location(s):

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1054 East Tower
Atlanta, GA 30334
Monday-Friday 8:00 AM to 4:30 PM, excluding state holidays

Notice: This Property has been listed on the State's Hazardous Site Inventory at HSI #10511 and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the Property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act.

Activity and Use Limitations. The Property is subject to the following activity and/or use limitations:

A. Real Property. The Property shall not be used for residential uses, as defined in Section 391-3-19-.02 of the Rules as of the date of this Environmental Covenant, that could result in exposure to resident individuals to soils beneath the upper two (2) feet of soil on the Property unless it is first demonstrated to EPD's satisfaction that any such change in use will not result in exposure to regulated substances above applicable risk reduction standards or to unacceptable risks of vapor intrusion as measured or evaluated by methods in use by EPD at the time of any such change in use. Any activity on the Property that may result in the release or exposure above applicable risk reduction standards to the regulated substances that were addressed as part of the Corrective Action, or which may create a new exposure pathway to those regulated substances, is prohibited. In addition, any activity that would disturb any activity that would disturb the ISS mass depicted on Exhibit B and described further in the Western Portion and MW-101 Area Groundwater Corrective Action Plan Addendum dated February 2014, submitted in October 2014 as Appendix C of the Voluntary Investigation and Remediation Plan and all modifications submitted thereafter, without prior notice to and approval from EPD, is prohibited.

B. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited.

C. Permanent Markers. Permanent markers on each side of the Property shall be installed and maintained that delineate the restricted area as specified in Section 391-3-19-.07(10) of the Rules. Disturbance or removal of such markers is prohibited.

Other Requirements. The Property is subject to the following additional requirements.

A. Notice of Limitations and Requirements in Future Conveyances. Each instrument hereafter conveying any interest in the Property or any portion thereof that may affect the activity and use limitations described herein shall include a statement that the Property is subject to this Environmental Covenant (and any amendments thereto), the location (County, Deed Book and Page) in the deed records where this Environmental Covenant (and any amendments thereto) is recorded and a copy of this Environmental Covenant (and any amendments thereto).

B. Notice to EPD of Future Conveyances. Within thirty (30) days after each conveyance of a fee simple interest in the Property or any portion thereof, a notice shall be sent to EPD and Atlanta Gas Light Company. The notice shall include the new owner's name, address, telephone number and other pertinent contact information, the date of the conveyance and the location (County, Deed Book and Page) where the conveyance is recorded, and, if the conveyance is a portion of the Property, a survey map showing the boundaries of the real property conveyed.

C. Notice of Change of Use. If such activity will materially affect any required monitoring or maintenance of any institutional or engineering controls described herein, the owner of the Property must provide to EPD thirty (30) days' advance written notice of the owner's intent to change the use of the Property, to apply for a building permit for construction at the Property, or to perform any site work.

Environmental Covenant Does Not Authorize Use Otherwise Prohibited

Pursuant to the Act, this Environmental Covenant shall not be construed to authorize a use of the Property that is otherwise prohibited by zoning, ordinance, local law or general law or by a recorded instrument that has priority over this Environmental Covenant.

Rights of Access and Enforcement

Authorized representatives of EPD and Atlanta Gas Light Company shall have the right to enter the Property at reasonable times in connection with implementation, compliance, or enforcement of this Environmental Covenant, including but not limited to the right to conduct inspections, examine related records, or to take samples.

This Environmental Covenant shall be enforceable by EPD, Atlanta Gas Light Company, and other parties as provided in the Act. Such rights of access and enforcement herein shall not limit EPD's authority under other applicable law.

No Interest in Real Property in EPD

EPD's rights under this Environmental Covenant and the Act shall not be considered an interest in real property.

Recording of Environmental Covenant and Service on Other Persons

Within thirty (30) days after execution of this Environmental Covenant by the Director of EPD, Atlanta Gas Light Company, shall record the Environmental Covenant in every county in which any portion of the Property is located in accordance with the law governing the recording and priority of interests in real property. Upon recording of the Environmental Covenant, Atlanta Gas Light Company shall provide in a manner deemed acceptable by EPD a copy of the executed, recorded Environmental Covenant to each of the persons or entities identified in O.C.G.A. § 44-16-7.

Representations and Warranties by Grantor(s). Atlanta Gas Light Company represents and warrants that all of the following are true and correct:

A. Atlanta Gas Light Company holds fee simple title to the Property.
B. Atlanta Gas Light Company has the authority to enter into this Environmental Covenant, has the authority to grant any rights granted by it within, has the ability to carry out the obligations described within and, based upon information and belief after reasonable inquiry, does not know of any anticipated material change in the practices, ownership, or authority of Atlanta Gas Light Company that will alter this representation and warranty.
C. The execution and delivery of this Environmental Covenant and carrying out the obligations described within will not conflict with any of the provisions of the organizational documents, operating agreement of Atlanta Gas Light Company nor will it violate, contravene and/or constitute a breach or default under any agreement, contract, order or instrument to which Atlanta Gas Light Company is a party or by which Atlanta Gas Light Company may be bound.
D. There are no persons with existing interests other than fee simple in the Property;
E. This Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by zoning, ordinance, local law or general law or by a recorded instrument that has priority over this Environmental Covenant.
F. At least thirty (30) days prior to presenting this Environmental Covenant to EPD for execution, Atlanta Gas Light Company served a copy of the proposed final text of this Environmental Covenant on all persons or entities required to be noticed in accordance with O.C.G.A. § 44-16-7.

Submission of Required Documents and Communications

Documents and communications required by this Environmental Covenant shall be submitted to:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1054 East Tower
Atlanta, GA 30334

With a copy to:

Atlanta Gas Light Company
10 Peachtree Place NE
Atlanta, Georgia 30309

EPD's Environmental Covenants Registry

This Environmental Covenant and any amendment thereto or termination thereof may be included in EPD's registry for environmental covenants.

Severability

Should any provision of this Environmental Covenant be found by a court of competent jurisdiction to be invalid and/or unenforceable in any respect, the remaining provisions shall continue in full force and effect.

Effective Date

This Environmental Covenant shall be effective on the date the fully executed Environmental Covenant is recorded in accordance with O.C.G.A. § 44-16-8(a).

Signed, sealed, and delivered in the presence of:

_____
Unofficial Witness (*Signature*)

_____
Unofficial Witness Name (*Print*)

_____

_____
Unofficial Witness Address (*Print*)

_____
Notary Public (*Signature*)

My Commission Expires:_____

For the Grantor:

_____
Name of Grantor (*Print*)

_____ (Seal)
Grantor's Authorized Representative (*Signature*)

_____
Authorized Representative Name (*Print*)

_____
Title of Authorized Representative (*Print*)

Dated:_____
(NOTARY SEAL)

Signed, sealed, and delivered in the presence of:

Unofficial Witness (*Signature*)

Unofficial Witness Name (*Print*)

Unofficial Witness Address (*Print*)

Notary Public (*Signature*)

My Commission Expires:_____

For the Grantee/Holder:

Name of Grantee/Holder (*Print*)

(Seal)

Authorized Representative (*Signature*)

Authorized Representative Name (*Print*)

Title of Authorized Representative (*Print*)

Dated:_____

(NOTARY SEAL)

Signed, sealed, and delivered in the presence of:

Unofficial Witness (*Signature*)

Unofficial Witness Name (*Print*)

Unofficial Witness Address (*Print*)

Notary Public *(Signature)*

My Commission Expires:_____

For the State of Georgia
Environmental Protection Division:

(Seal)

(Signature)

Richard E. Dunn,
Director

Dated:_____

(NOTARY SEAL)

Exhibit A
Legal Description of Property

Exhibit B
Map of Property

After Recording Return to:
Scott Laseter
Kazmarek Mowrey Cloud Laseter LLP
1230 Peachtree Street N.E., Suite 3600
Atlanta, Georgia 30309

CROSS-REFERENCE:
County: Bibb
Deed Book:
Page(s):

Environmental Covenant

This instrument is an Environmental Covenant executed for the property identified below (hereinafter "the Property") as part of an environmental response project to address regulated substances released into the environment that have migrated onto the Property in the groundwater. This Environmental Covenant restricts the use of groundwater on the Property to prevent humans from coming into contact with regulated substances.

Fee Owner of Property/Grantor: Macon-Bibb County (hereinafter "Grantor")
700 Poplar Street
Macon, GA 31201

Grantee/Holder: Atlanta Gas Light Company
10 Peachtree Place NE
Atlanta, Georgia 30309

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1456 East Tower
Atlanta, GA 30334

Property Information:

The property subject to this Environmental Covenant is a portion of the Macon-Bibb County road right-of-way (ROW) in the portion of Walnut Street between 7th Street and 6th Street and in 7th Street, between Mulberry Street and Riverside Drive, all in Macon, Bibb County, Georgia. A legal description is attached as Exhibit A (hereinafter "Property") and further depicted on the map attached as Exhibit B. The Property is located in Land Lot 074 of the 11th District of Bibb County, Georgia.

The Property is assigned no tax parcel identification number in the records of Bibb County, Georgia.

Name and Location of Administrative Records:

The administrative record for the environmental response project is identified as Voluntary Remediation Program Macon MGP Site, HSI No. 10511. This record is available for review at the following location:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1054 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Declaration of Covenant:

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by Grantor, Grantee/Holder, EPD, and their respective successors and assigns.

Grantor makes the following declaration as to restrictions to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property. Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

Grantor hereby binds Grantor, its successors and assigns to the following activity and use limitation for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the Grantee/Holder and EPD.

Activity and/or Use Limitation

Groundwater Use Limitation. The use or extraction of groundwater beneath the Property for drinking water or other potable uses shall be prohibited. The use or extraction of groundwater for any other purpose besides site characterization is prohibited unless conducted under a plan approved in writing by EPD.

General Provisions

Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitation set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant.

Access. Grantor shall provide reasonable access to Grantee/Holder or its assigns to verify compliance for annual reporting to EPD.

Effective Date. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Benefit. This Environmental Covenant shall inure to the benefit of Grantee/Holder, EPD, and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, Grantee/Holder or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Termination or Modification. This Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-16-5, unless and until the Director determines that the Property is in compliance with the Type 1 or 2 Risk Reduction Standards, as defined in Section 391-3-19-.07 of the Georgia Rules of Hazardous Site Response, whereupon the Environmental Covenant may be amended or terminated, as appropriate, in accordance with O.C.G.A. § 44-16-1 *et seq*.

Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

Warranty. Grantor hereby represents and warrants to the other signatories hereto that the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided, and to carry out all obligations hereunder and in accordance with O.C.G.A. § 44-16-1 *et seq*.

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____ day of _____, 20___.

Signed, sealed, and delivered in the presence of:

_____
Unofficial Witness (*Signature*)

_____
Unofficial Witness Name (*Print*)

_____
Unofficial Witness Address (*Print*)

_____
Notary Public (*Signature*)

My Commission Expires:_____

For the Grantor:

_____
Name of Grantor (*Print*)

_____ (Seal)
Grantor's Authorized Representative (*Signature*)

_____
Authorized Representative Name (*Print*)

_____
Title of Authorized Representative (*Print*)

Dated:_____
(NOTARY SEAL)

Signed, sealed, and delivered in the presence of:

For Grantee/Holder:

Unofficial Witness (*Signature*)

Name of Grantee/Holder (*Print*)

Unofficial Witness Name (*Print*)

(Seal)

Authorized Representative (*Signature*)

Authorized Representative Name (*Print*)

Unofficial Witness Address (*Print*)

Title of Authorized Representative (*Print*)

Notary Public (*Signature*)
My Commission Expires:_____

Dated:_____
(NOTARY SEAL)

Signed, sealed, and delivered in the presence of:

For the State of Georgia
Environmental Protection Division:

Unofficial Witness (*Signature*)

(Seal)

(Signature)

Unofficial Witness Name (*Print*)

Richard E Dunn,
Director

Dated:_____

Unofficial Witness Address (*Print*)

(NOTARY SEAL)

Notary Public *(Signature)*

My Commission Expires:_____

Exhibit A
Legal Description

Exhibit B
Property Map

After Recording Return to:
Scott Laseter
Kazmarek Mowrey Cloud Laseter LLP
1230 Peachtree Street N.E., Suite 3600
Atlanta, Georgia 30309

CROSS-REFERENCE:
County: Bibb
Deed Book:
Page(s):

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq.*, as may be amended from time to time (hereinafter "Act"). This Environmental Covenant is entered into by the entities executing this Environmental Covenant and subjects the property identified below to the activity and/or use limitations and other requirements. This Environmental Covenant further grants such other rights in favor of EPD and Atlanta Gas Light Company as set forth herein.

Fee Simple Owner(s)/Grantor(s): Macon-Bibb County
700 Poplar Street
Macon, Georgia 31201

Grantee/Holder with the power to enforce: Atlanta Gas Light Company
10 Peachtree Place NE
Atlanta, Georgia 30309

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1456 East Tower
Atlanta, GA 30334

The property subject to this Environmental Covenant is a portion of the Macon-Bibb County road right-of-way (ROW) in the portion of Terminal Avenue, between Walnut and Poplar Streets in Macon, Bibb County, Georgia. A legal description is attached as Exhibit A (hereinafter "Property") and further depicted on the map attached as Exhibit B. The Property is located in Land Lot 074 of the 11th District of Bibb County, Georgia.

The Property is assigned no tax parcel identification number in the records of Bibb County, Georgia.

Environmental Covenant Runs with the Land and is Perpetual

Pursuant to the Act, this Environmental Covenant shall run with the land and shall be perpetual unless terminated or amended pursuant to terms herein or in accordance with provisions of the Act. This Environmental Covenant shall be binding upon Macon-Bibb County, Atlanta Gas Light Company, and all successors, assigns and transferees of any interest in the Property or any portion thereof.

Administrative Records

This Environmental Covenant imposes activity and/or use limitations and other requirements on the Property that arise under corrective action performed in connection with the Voluntary Remediation Program Macon MGP Site, HSI Site No. 10511. Records pertaining to this corrective action are available at the following EPD location(s):

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1054 East Tower
Atlanta, GA 30334
Monday-Friday 8:00 AM to 4:30 PM, excluding state holidays

Notice: This Property has been listed on the State's Hazardous Site Inventory at HSI #10511 and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the Property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act.

Activity and Use Limitations. The Property is subject to the following activity and/or use limitations:

A. Real Property. The Property shall not be used for residential uses, as defined in Section 391-3-19-.02 of the Rules as of the date of this Environmental Covenant, that could result in exposure to resident individuals to soils beneath the upper two (2) feet of soil on the Property unless it is first demonstrated to EPD's satisfaction that any such change in use will not result in exposure to regulated substances above applicable risk reduction standards or to unacceptable risks of vapor intrusion as measured or evaluated by methods in use by EPD at the time of any such change in use. Any activity on the Property that may result in the release or exposure above applicable risk reduction standards to the regulated substances that were addressed as part of the Corrective Action, or which may create a new exposure pathway to those regulated substances, is prohibited. In addition, any activity that would disturb the in-situ solidification (ISS) mass depicted on Exhibit B and described further in the Western Portion and MW-101 Area Groundwater Corrective Action Plan Addendum dated February 2014, submitted in October 2014 as Appendix C of the Voluntary Investigation and Remediation Plan and all modifications submitted thereafter, without prior notice to and approval from EPD, is prohibited.

B. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited.

C. Permanent Markers. Permanent markers on each side of the Property shall be installed and maintained that delineate the restricted area as specified in Section 391-3-19-.07(10) of the Rules. Disturbance or removal of such markers is prohibited.

Other Requirements. The Property is subject to the following additional requirements.

A. Notice of Limitations and Requirements in Future Conveyances. Each instrument hereafter conveying any interest in the Property or any portion thereof that may affect the activity and use limitations described herein shall include a statement that the Property is subject to this Environmental Covenant (and any amendments thereto), the location (County, Deed Book and Page) in the deed records where this Environmental Covenant (and any amendments thereto) is recorded and a copy of this Environmental Covenant (and any amendments thereto).

B. Notice to EPD of Future Conveyances. Within thirty (30) days after each conveyance of a fee simple interest in the Property or any portion thereof, a notice shall be sent to EPD and Atlanta Gas Light Company. The notice shall include the new owner's name, address, telephone number and other pertinent contact information, the date of the conveyance and the location (County, Deed Book and Page) where the conveyance is recorded, and, if the conveyance is a portion of the Property, a survey map showing the boundaries of the real property conveyed.

C. Notice of Change of Use. If such activity will materially affect any required monitoring or maintenance of any institutional or engineering controls described herein, the owner of the Property must provide to EPD thirty (30) days' advance written notice of the owner's intent to change the use of the Property, to apply for a building permit for construction at the Property, or to perform any site work.

Environmental Covenant Does Not Authorize Use Otherwise Prohibited

Pursuant to the Act, this Environmental Covenant shall not be construed to authorize a use of the Property that is otherwise prohibited by zoning, ordinance, local law or general law or by a recorded instrument that has priority over this Environmental Covenant.

Rights of Access and Enforcement

Authorized representatives of EPD and Atlanta Gas Light Company shall have the right to enter the Property at reasonable times in connection with implementation, compliance, or enforcement of this Environmental Covenant, including but not limited to the right to conduct inspections, examine related records, or to take samples.

This Environmental Covenant shall be enforceable by EPD, Atlanta Gas Light Company, and other parties as provided in the Act. Such rights of access and enforcement herein shall not limit EPD's authority under other applicable law.

No Interest in Real Property in EPD

EPD's rights under this Environmental Covenant and the Act shall not be considered an interest in real property.

Recording of Environmental Covenant and Service on Other Persons

Within thirty (30) days after execution of this Environmental Covenant by the Director of EPD, Macon-Bibb County, shall record the Environmental Covenant in every county in which any portion of the Property is located in accordance with the law governing the recording and priority of interests in real property. Upon recording of the Environmental Covenant, Macon-Bibb County shall provide in a manner deemed acceptable by EPD a copy of the executed, recorded Environmental Covenant to each of the persons or entities identified in O.C.G.A. § 44-16-7.

Representations and Warranties by Grantor(s). Macon-Bibb County represents and warrants that all of the following are true and correct:

A. Macon-Bibb County holds fee simple title to the Property.
B. Macon-Bibb County has the authority to enter into this Environmental Covenant, has the authority to grant any rights granted by it within, has the ability to carry out the obligations described within and, based upon information and belief after reasonable inquiry, does not know of any anticipated material change in the practices, ownership, or authority of Macon-Bibb County that will alter this representation and warranty.
C. The execution and delivery of this Environmental Covenant and carrying out the obligations described within will not conflict with any of the provisions of the organizational documents, operating agreement of Macon-Bibb County nor will it violate, contravene and/or constitute a breach or default under any agreement, contract, order or instrument to which Macon-Bibb County is a party or by which Macon-Bibb County may be bound.
D. There are no persons with existing interests other than fee simple in the Property;
E. This Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by zoning, ordinance, local law or general law or by a recorded instrument that has priority over this Environmental Covenant.
F. At least thirty (30) days prior to presenting this Environmental Covenant to EPD for execution, Macon-Bibb County served a copy of the proposed final text of this Environmental Covenant on all persons or entities required to be noticed in accordance with O.C.G.A. § 44-16-7.

Submission of Required Documents and Communications

Documents and communications required by this Environmental Covenant shall be submitted to:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1054 East Tower
Atlanta, GA 30334

With a copy to:

Atlanta Gas Light Company
10 Peachtree Place NE
Atlanta, Georgia 30309

EPD's Environmental Covenants Registry

This Environmental Covenant and any amendment thereto or termination thereof may be included in EPD's registry for environmental covenants.

Severability

Should any provision of this Environmental Covenant be found by a court of competent jurisdiction to be invalid and/or unenforceable in any respect, the remaining provisions shall continue in full force and effect.

Effective Date

This Environmental Covenant shall be effective on the date the fully executed Environmental Covenant is recorded in accordance with O.C.G.A. § 44-16-8(a).

Signed, sealed, and delivered in the presence of:

_____
Unofficial Witness (*Signature*)

_____
Unofficial Witness Name (*Print*)

_____

_____
Unofficial Witness Address (*Print*)

_____
Notary Public (*Signature*)

My Commission Expires:_____

For the Grantor:

_____
Name of Grantor (*Print*)

_____ (Seal)
Grantor's Authorized Representative (*Signature*)

_____
Authorized Representative Name (*Print*)

_____
Title of Authorized Representative (*Print*)

Dated:_____
(NOTARY SEAL)

Signed, sealed, and delivered in the presence of:

Unofficial Witness (*Signature*)

Unofficial Witness Name (*Print*)

Unofficial Witness Address (*Print*)

Notary Public (*Signature*)

My Commission Expires:_____

For the Grantee/Holder:

Name of Grantee/Holder (*Print*)

(Seal)

Authorized Representative (*Signature*)

Authorized Representative Name (*Print*)

Title of Authorized Representative (*Print*)

Dated:_____

(NOTARY SEAL)

Signed, sealed, and delivered in the presence of:

Unofficial Witness (*Signature*)

Unofficial Witness Name (*Print*)

Unofficial Witness Address (*Print*)

Notary Public *(Signature)*

My Commission Expires:_____

For the State of Georgia
Environmental Protection Division:

(Seal)

(Signature)

Richard E. Dunn,
Director

Dated:_____

(NOTARY SEAL)

Exhibit A
Legal Description of Property

Exhibit B
Map of Property

After Recording Return to:
Scott Laseter
Kazmarek Mowrey Cloud Laseter LLP
1230 Peachtree Street N.E., Suite 3600
Atlanta, Georgia 30309

CROSS-REFERENCE:
County: Bibb
Deed Book:
Page(s):

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq.*, as may be amended from time to time (hereinafter "Act"). This Environmental Covenant is entered into by the entities executing this Environmental Covenant and subjects the property identified below to the activity and/or use limitations and other requirements. This Environmental Covenant further grants such other rights in favor of EPD and Atlanta Gas Light Company as set forth herein.

Fee Simple Owner(s)/Grantor(s): Macon-Bibb County
700 Poplar Street
Macon, Georgia 31201

Grantee/Holder with the power to enforce: Atlanta Gas Light Company
10 Peachtree Place NE
Atlanta, Georgia 30309

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1456 East Tower
Atlanta, GA 30334

The property subject to this Environmental Covenant is a portion of the Macon-Bibb County road right-of-way (ROW) in the portion of 6th Street between Cherry and Walnut Streets, and Mulberry Street between 6th and 7th Streets, all in Macon, Bibb County, Georgia. A legal description is attached as Exhibit A (hereinafter "Property") and further depicted on the map attached as Exhibit B. The Property is located in Land Lot 074 of the 11th District of Bibb County, Georgia.

The Property is assigned no tax parcel identification number in the records of Bibb County, Georgia.

Environmental Covenant Runs with the Land and is Perpetual

Pursuant to the Act, this Environmental Covenant shall run with the land and shall be perpetual unless terminated or amended pursuant to terms herein or in accordance with provisions of the Act. This Environmental Covenant shall be binding upon Macon-Bibb County, Atlanta Gas Light Company, and all successors, assigns and transferees of any interest in the Property or any portion thereof.

Administrative Records

This Environmental Covenant imposes activity and/or use limitations and other requirements on the Property that arise under corrective action performed in connection with the Voluntary Remediation Program Macon MGP Site, HSI Site No. 10511. Records pertaining to this corrective action are available at the following EPD location(s):

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1054 East Tower
Atlanta, GA 30334
Monday-Friday 8:00 AM to 4:30 PM, excluding state holidays

Notice: This Property has been listed on the State's Hazardous Site Inventory at HSI #10511 and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the Property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act.

Activity and Use Limitations. The Property is subject to the following activity and/or use limitations:

A. Real Property. The Property shall not be used for residential uses, as defined in Section 391-3-19-.02 of the Rules as of the date of this Environmental Covenant, that could result in exposure to resident individuals to soils beneath the upper two (2) feet of soil on the Property unless it is first demonstrated to EPD's satisfaction that any such change in use will not result in exposure to regulated substances above applicable risk reduction standards or to unacceptable risks of vapor intrusion as measured or evaluated by methods in use by EPD at the time of any such change in use. Any activity on the Property that may result in the release or exposure above applicable risk reduction standards to the regulated substances that were addressed as part of the Corrective Action, or which may create a new exposure pathway to those regulated substances, is prohibited. In addition, any activity that would disturb the in-situ solidification (ISS) mass depicted on Exhibit B and described further in the Western Portion and MW-101 Area Groundwater Corrective Action Plan Addendum dated February 2014, submitted in October 2014 as Appendix C of the Voluntary Investigation and Remediation Plan and all modifications submitted thereafter, without prior notice to and approval from EPD, is prohibited.

B. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited.

C. Permanent Markers. Permanent markers on each side of the Property shall be installed and maintained that delineate the restricted area as specified in Section 391-3-19-.07(10) of the Rules. Disturbance or removal of such markers is prohibited.

Other Requirements. The Property is subject to the following additional requirements.

A. Notice of Limitations and Requirements in Future Conveyances. Each instrument hereafter conveying any interest in the Property or any portion thereof that may affect the activity and use limitations described herein shall include a statement that the Property is subject to this Environmental Covenant (and any amendments thereto), the location (County, Deed Book and Page) in the deed records where this Environmental Covenant (and any amendments thereto) is recorded and a copy of this Environmental Covenant (and any amendments thereto).

B. Notice to EPD of Future Conveyances. Within thirty (30) days after each conveyance of a fee simple interest in the Property or any portion thereof, a notice shall be sent to EPD and Atlanta Gas Light Company. The notice shall include the new owner's name, address, telephone number and other pertinent contact information, the date of the conveyance and the location (County, Deed Book and Page) where the conveyance is recorded, and, if the conveyance is a portion of the Property, a survey map showing the boundaries of the real property conveyed.

C. Notice of Change of Use. If such activity will materially affect any required monitoring or maintenance of any institutional or engineering controls described herein, the owner of the Property must provide to EPD thirty (30) days' advance written notice of the owner's intent to change the use of the Property, to apply for a building permit for construction at the Property, or to perform any site work.

Environmental Covenant Does Not Authorize Use Otherwise Prohibited

Pursuant to the Act, this Environmental Covenant shall not be construed to authorize a use of the Property that is otherwise prohibited by zoning, ordinance, local law or general law or by a recorded instrument that has priority over this Environmental Covenant.

Rights of Access and Enforcement

Authorized representatives of EPD and Atlanta Gas Light Company shall have the right to enter the Property at reasonable times in connection with implementation, compliance, or enforcement of this Environmental Covenant, including but not limited to the right to conduct inspections, examine related records, or to take samples.

This Environmental Covenant shall be enforceable by EPD, Atlanta Gas Light Company, and other parties as provided in the Act. Such rights of access and enforcement herein shall not limit EPD's authority under other applicable law.

No Interest in Real Property in EPD

EPD's rights under this Environmental Covenant and the Act shall not be considered an interest in real property.

Recording of Environmental Covenant and Service on Other Persons

Within thirty (30) days after execution of this Environmental Covenant by the Director of EPD, Macon-Bibb County, shall record the Environmental Covenant in every county in which any portion of the Property is located in accordance with the law governing the recording and priority of interests in real property. Upon recording of the Environmental Covenant, Macon-Bibb County shall provide in a manner deemed acceptable by EPD a copy of the executed, recorded Environmental Covenant to each of the persons or entities identified in O.C.G.A. § 44-16-7.

Representations and Warranties by Grantor(s). Macon-Bibb County represents and warrants that all of the following are true and correct:

A. Macon-Bibb County holds fee simple title to the Property.
B. Macon-Bibb County has the authority to enter into this Environmental Covenant, has the authority to grant any rights granted by it within, has the ability to carry out the obligations described within and, based upon information and belief after reasonable inquiry, does not know of any anticipated material change in the practices, ownership, or authority of Macon-Bibb County that will alter this representation and warranty.
C. The execution and delivery of this Environmental Covenant and carrying out the obligations described within will not conflict with any of the provisions of the organizational documents, operating agreement of Macon-Bibb County nor will it violate, contravene and/or constitute a breach or default under any agreement, contract, order or instrument to which Macon-Bibb County is a party or by which Macon-Bibb County may be bound.
D. There are no persons with existing interests other than fee simple in the Property;
E. This Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by zoning, ordinance, local law or general law or by a recorded instrument that has priority over this Environmental Covenant.
F. At least thirty (30) days prior to presenting this Environmental Covenant to EPD for execution, Macon-Bibb County served a copy of the proposed final text of this Environmental Covenant on all persons or entities required to be noticed in accordance with O.C.G.A. § 44-16-7.

Submission of Required Documents and Communications

Documents and communications required by this Environmental Covenant shall be submitted to:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1054 East Tower
Atlanta, GA 30334

With a copy to:

Atlanta Gas Light Company
10 Peachtree Place NE
Atlanta, Georgia 30309

EPD's Environmental Covenants Registry

This Environmental Covenant and any amendment thereto or termination thereof may be included in EPD's registry for environmental covenants.

Severability

Should any provision of this Environmental Covenant be found by a court of competent jurisdiction to be invalid and/or unenforceable in any respect, the remaining provisions shall continue in full force and effect.

Effective Date

This Environmental Covenant shall be effective on the date the fully executed Environmental Covenant is recorded in accordance with O.C.G.A. § 44-16-8(a).

Signed, sealed, and delivered in the presence of:

_____
Unofficial Witness (*Signature*)

_____
Unofficial Witness Name (*Print*)

_____

_____
Unofficial Witness Address (*Print*)

_____
Notary Public (*Signature*)

My Commission Expires:_____

For the Grantor:

_____
Name of Grantor (*Print*)

_____ (Seal)
Grantor's Authorized Representative (*Signature*)

_____
Authorized Representative Name (*Print*)

_____
Title of Authorized Representative (*Print*)

Dated:_____
(NOTARY SEAL)

Signed, sealed, and delivered in the presence of:

Unofficial Witness (*Signature*)

Unofficial Witness Name (*Print*)

Unofficial Witness Address (*Print*)

Notary Public (*Signature*)

My Commission Expires:_____

For the Grantee/Holder:

Name of Grantee/Holder (*Print*)

(Seal)

Authorized Representative (*Signature*)

Authorized Representative Name (*Print*)

Title of Authorized Representative (*Print*)

Dated:_____

(NOTARY SEAL)

Signed, sealed, and delivered in the presence of:

Unofficial Witness (*Signature*)

Unofficial Witness Name (*Print*)

Unofficial Witness Address (*Print*)

Notary Public *(Signature)*

My Commission Expires:_____

For the State of Georgia
Environmental Protection Division:

(Seal)

(Signature)

Richard E. Dunn,
Director

Dated:_____

(NOTARY SEAL)

Exhibit A
Legal Description of Property

Exhibit B
Map of Property

After Recording Return to:
Scott Laseter
Kazmarek Mowrey Cloud Laseter LLP
1230 Peachtree Street N.E., Suite 3600
Atlanta, Georgia 30309

CROSS-REFERENCE:

County: Bibb
Deed Book:
Page:

Environmental Covenant

This instrument is an Environmental Covenant executed for the property identified below (hereinafter "the Property") as part of an environmental response project to address regulated substances released into the environment that have migrated onto the Property in the groundwater. This Environmental Covenant restricts the use of groundwater on the Property to prevent humans from coming into contact with regulated substances.

Fee Owner of Property/Grantor: Norfolk Southern Railroad (hereinafter "Grantor")
1200 Peachtree Street, NE – Box 13
Atlanta, Georgia 30309

Grantee/Holder: Atlanta Gas Light Company
10 Peachtree Place NE
Atlanta, Georgia 30309

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1456 East Tower
Atlanta, GA 30334

Property Information:

The property subject to this Environmental Covenant is a portion of the parcel of land lying southwest of 7th Street between its intersection with 7th and Lower Cherry Streets in Macon, Bibb County, Georgia (hereinafter "Parcel"). A legal description of the Parcel is attached as Exhibit A and a map depicting the portion of the Parcel subject to this Environmental Covenant (the "Property") is attached as Exhibit B. The Parcel is located in Land Lot R074 of the 11th District of Bibb County, Georgia.

The Property is assigned no tax parcel identification number in the records of Bibb County, Georgia.

Name and Location of Administrative Records:

The administrative record for the environmental response project is identified as Voluntary Remediation Program Macon MGP Site, HSI No. 10511. This record is available for review at the following location:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1054 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Declaration of Covenant:

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by Grantor, Grantee/Holder, EPD, and their respective successors and assigns.

Grantor makes the following declaration as to restrictions to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property. Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

Grantor hereby binds Grantor, its successors and assigns to the following activity and use limitation for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the Grantee/Holder and EPD.

Activity and/or Use Limitation

Groundwater Use Limitation. The use or extraction of groundwater beneath the Property for drinking water or other potable uses shall be prohibited. The use or extraction of groundwater for any other purpose besides site characterization is prohibited unless conducted under a plan approved in writing by EPD.

General Provisions

Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitation set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant.

Access. Grantor shall provide reasonable access to Grantee/Holder or its assigns to verify compliance for annual reporting to EPD.

Effective Date. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Benefit. This Environmental Covenant shall inure to the benefit of Grantee/Holder, EPD, and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, Grantee/Holder or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Termination or Modification. This Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-16-5, unless and until the Director determines that the Property is in compliance with the Type 1 or 2 Risk Reduction Standards, as defined in Section 391-3-19-.07 of the Georgia Rules of Hazardous Site Response, whereupon the Environmental Covenant may be amended or terminated, as appropriate, in accordance with O.C.G.A. § 44-16-1 *et seq*.

Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

Warranty. Grantor hereby represents and warrants to the other signatories hereto that the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided, and to carry out all obligations hereunder and in accordance with O.C.G.A. § 44-16-1 *et seq*.

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____ day of _____, 20___.

Signed, sealed, and delivered in the presence of:

_____
Unofficial Witness (*Signature*)

_____
Unofficial Witness Name (*Print*)

_____

_____
Unofficial Witness Address (*Print*)

_____
Notary Public (*Signature*)

My Commission Expires:_____

For the Grantor:

_____
Name of Grantor (*Print*)

_____ (Seal)
Grantor's Authorized Representative (*Signature*)

_____
Authorized Representative Name (*Print*)

_____
Title of Authorized Representative (*Print*)

Dated:_____
(NOTARY SEAL)

Signed, sealed, and delivered in the presence of:

Unofficial Witness (*Signature*)

Unofficial Witness Name (*Print*)

Unofficial Witness Address (*Print*)

Notary Public (*Signature*)
My Commission Expires:_____

For Grantee/Holder:

Name of Grantee/Holder (*Print*)

(Seal)
Authorized Representative (*Signature*)

Authorized Representative Name (*Print*)

Title of Authorized Representative (*Print*)

Dated:_____
(NOTARY SEAL)

Signed, sealed, and delivered in the presence of:

Unofficial Witness (*Signature*)

Unofficial Witness Name (*Print*)

Unofficial Witness Address (*Print*)

Notary Public *(Signature)*

My Commission Expires:_____

For the State of Georgia
Environmental Protection Division:

(Seal)
(Signature)

Richard E Dunn,
Director

Dated:_____

(NOTARY SEAL)

Exhibit A
Legal Description

Exhibit B
Property Map

DRAFT

After Recording Return to:
Scott Laseter
Kazmarek Mowrey Cloud Laseter LLP
1230 Peachtree Street N.E., Suite 3600
Atlanta, Georgia 30309

CROSS-REFERENCE:
County: Bibb
Deed Book:
Page:

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq.*, as may be amended from time to time (hereinafter "Act"). This Environmental Covenant is entered into by the entities executing this Environmental Covenant and subjects the property identified below to the activity and/or use limitations and other requirements. This Environmental Covenant further grants such other rights in favor of EPD and Atlanta Gas Light Company as set forth herein.

Fee Simple Owner(s)/Grantor(s): Norfolk Southern Railroad
1200 Peachtree Street, NE – Box 13
Atlanta, Georgia 30309

Grantee/Holder with the power to enforce: Atlanta Gas Light Company
10 Peachtree Place NE
Atlanta, Georgia 30309

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1456 East Tower
Atlanta, Georgia 30334

The property subject to this Environmental Covenant is a portion of the parcel of land lying west of Terminal Avenue between its intersection with Walnut and Poplar Streets in Macon, Bibb County, Georgia, which is further identified by the tax parcel ID number(s) below (hereinafter "Parcel"). A legal description of the Parcel is attached as Exhibit A and a map depicting the portion of the Parcel subject to this Environmental Covenant (the "Property") is attached as Exhibit B. The Parcel is located in Land Lot 074 of the 11th District of Bibb County, Georgia.

The Property is assigned no tax parcel identification number in the records of Bibb County, Georgia.

Environmental Covenant Runs with the Land and is Perpetual

Pursuant to the Act, this Environmental Covenant shall run with the land and shall be perpetual unless terminated or amended pursuant to terms herein or in accordance with provisions of the Act. This Environmental Covenant shall be binding upon Norfolk Southern Railroad, Atlanta Gas Light Company, and all successors, assigns and transferees of any interest in the Property or any portion thereof.

Administrative Records

This Environmental Covenant imposes activity and/or use limitations and other requirements on the Property that arise under corrective action performed in connection with the Voluntary Remediation Program Macon MGP Site, HSI Site No. 10511. Records pertaining to this corrective action are available at the following EPD location(s):

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1054 East Tower
Atlanta, GA 30334
Monday-Friday 8:00 AM to 4:30 PM, excluding state holidays

Notice: This Property has been listed on the State's Hazardous Site Inventory at HSI #10511 and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the Property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act.

Activity and Use Limitations. The Property is subject to the following activity and/or use limitations:

A. Real Property. The Property shall not be used for residential uses, as defined in Section 391-3-19-.02 of the Rules as of the date of this Environmental Covenant, nor shall it be used in any manner that could result in exposure to regulated substances above applicable risk reduction standards or to unacceptable risks of vapor intrusion as measured or evaluated by methods in use by EPD at the time of any such proposed use. Any activity on the Property that may result in the release or exposure above applicable risk reduction standards to the regulated substances that were addressed as part of the Corrective Action, or which may create a new exposure pathway to those regulated substances, is prohibited.

B. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited.

C. Permanent Markers. Permanent markers on each side of the Property shall be installed and maintained that delineate the restricted area as specified in Section 391-3-19-.07(10) of the Rules. Disturbance or removal of such markers is prohibited.

Other Requirements. The Property is subject to the following additional requirements.

A. Notice of Limitations and Requirements in Future Conveyances. Each instrument hereafter conveying any interest in the Property or any portion thereof that may affect the activity and use limitations described herein shall include a statement that the Property is subject to this Environmental Covenant (and any amendments thereto), the location (County, Deed Book and Page) in the deed records where this Environmental Covenant (and any amendments thereto) is recorded and a copy of this Environmental Covenant (and any amendments thereto).

B. Notice to EPD of Future Conveyances. Within thirty (30) days after each conveyance of a fee simple interest in the Property or any portion thereof, a notice shall be sent to EPD and Atlanta Gas Light Company. The notice shall include the new owner's name, address, telephone number and other pertinent contact information, the date of the conveyance and the location (County, Deed Book and Page) where the conveyance is recorded, and, if the conveyance is a portion of the Property, a survey map showing the boundaries of the real property conveyed.

C. Notice of Change of Use. If such activity will materially affect any required monitoring or maintenance of any institutional or engineering controls described herein, the owner of the Property must provide to EPD thirty (30) days' advance written notice of the owner's intent to change the use of the Property, to apply for a building permit for construction at the Property, or to perform any site work.

Environmental Covenant Does Not Authorize Use Otherwise Prohibited

Pursuant to the Act, this Environmental Covenant shall not be construed to authorize a use of the Property that is otherwise prohibited by zoning, ordinance, local law or general law or by a recorded instrument that has priority over this Environmental Covenant.

Rights of Access and Enforcement

Authorized representatives of EPD and Atlanta Gas Light Company shall have the right to enter the Property at reasonable times in connection with implementation, compliance, or enforcement of this Environmental Covenant, including but not limited to the right to conduct inspections, examine related records, or to take samples.

This Environmental Covenant shall be enforceable by EPD, Atlanta Gas Light Company, and other parties as provided in the Act. Such rights of access and enforcement herein shall not limit EPD's authority under other applicable law.

No Interest in Real Property in EPD

EPD's rights under this Environmental Covenant and the Act shall not be considered an interest in real property.

Recording of Environmental Covenant and Service on Other Persons

Within thirty (30) days after execution of this Environmental Covenant by the Director of EPD, Norfolk Southern Railroad, shall record the Environmental Covenant in every county in which any portion of the Property is located in accordance with the law governing the recording and priority of interests in real property. Upon recording of the Environmental Covenant, Norfolk Southern Railroad shall provide in a manner deemed acceptable by EPD a copy of the executed, recorded Environmental Covenant to each of the persons or entities identified in O.C.G.A. § 44-16-7.

Representations and Warranties by Grantor(s). Norfolk Southern Railroad represents and warrants that all of the following are true and correct:

A. Norfolk Southern Railroad holds fee simple title to the Property.
B. Norfolk Southern Railroad has the authority to enter into this Environmental Covenant, has the authority to grant any rights granted by it within, has the ability to carry out the obligations described within and, based upon information and belief after reasonable inquiry, does not know of any anticipated material change in the practices, ownership, or authority of Norfolk Southern Railroad that will alter this representation and warranty.
C. The execution and delivery of this Environmental Covenant and carrying out the obligations described within will not conflict with any of the provisions of the organizational documents, operating agreement of Norfolk Southern Railroad nor will it violate, contravene and/or constitute a breach or default under any agreement, contract, order or instrument to which Norfolk Southern Railroad is a party or by which Norfolk Southern Railroad may be bound.
D. There are no persons with existing interests other than fee simple in the Property;
E. This Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by zoning, ordinance, local law or general law or by a recorded instrument that has priority over this Environmental Covenant.
F. At least thirty (30) days prior to presenting this Environmental Covenant to EPD for execution, Norfolk Southern Railroad served a copy of the proposed final text of this Environmental Covenant on all persons or entities required to be noticed in accordance with O.C.G.A. § 44-16-7.

Submission of Required Documents and Communications

Documents and communications required by this Environmental Covenant shall be submitted to:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1054 East Tower
Atlanta, GA 30334

With a copy to:

Atlanta Gas Light Company
10 Peachtree Place NE
Atlanta, Georgia 30309

EPD's Environmental Covenants Registry

This Environmental Covenant and any amendment thereto or termination thereof may be included in EPD's registry for environmental covenants.

Severability

Should any provision of this Environmental Covenant be found by a court of competent jurisdiction to be invalid and/or unenforceable in any respect, the remaining provisions shall continue in full force and effect.

Effective Date

This Environmental Covenant shall be effective on the date the fully executed Environmental Covenant is recorded in accordance with O.C.G.A. § 44-16-8(a).

Signed, sealed, and delivered in the presence of:

_____
Unofficial Witness (*Signature*)

_____
Unofficial Witness Name (*Print*)

_____

_____
Unofficial Witness Address (*Print*)

_____
Notary Public (*Signature*)

My Commission Expires:_____

For the Grantor:

_____
Name of Grantor (*Print*)

_____ (Seal)
Grantor's Authorized Representative (*Signature*)

_____
Authorized Representative Name (*Print*)

_____
Title of Authorized Representative (*Print*)

Dated:_____
(NOTARY SEAL)

Signed, sealed, and delivered in the presence of:

Unofficial Witness (*Signature*)

Unofficial Witness Name (*Print*)

Unofficial Witness Address (*Print*)

Notary Public (*Signature*)

My Commission Expires:_____

For the Grantee/Holder:

Name of Grantee/Holder (*Print*)

(Seal)
Authorized Representative (*Signature*)

Authorized Representative Name (*Print*)

Title of Authorized Representative (*Print*)

Dated:_____
(NOTARY SEAL)

Signed, sealed, and delivered in the presence of:

Unofficial Witness (*Signature*)

Unofficial Witness Name (*Print*)

Unofficial Witness Address (*Print*)

Notary Public *(Signature)*

My Commission Expires:_____

For the State of Georgia
Environmental Protection Division:

(Seal)
(Signature)

Richard E. Dunn,
Director

Dated:_____

(NOTARY SEAL)

Exhibit A
Legal Description of Property

Exhibit B
Map of Property