APRIL 2013 SEMI-ANNUAL

VOLUNTARY REMEDIATION PLAN PROGRESS REPORT

139 BRAMPTON ROAD
SAVANNAH, CHATHAM COUNTY, GEORGIA
HSI Site No. 10208

Submitted To:
Georgia Environmental Protection Division
Hazardous Waste Management Branch
Suite 1154, East Tower
2 Martin Luther King Jr. Drive
Atlanta, Georgia 30334

Prepared For:
Dale Hendrix, Sr., Trustee under Trust for Benefit of Brenda Heisey
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Prepared By:

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April 2013

April 30, 2013

Mr. Derrick Williams
Program Manager
Hazardous Sites Response Program
Georgia Environmental Protection Division
2 Martin Luther King, Jr. Drive, SE
Suite 1462 East Floyd Tower
Atlanta, Georgia 30334

Subject: **April 2013 Semi-Annual Voluntary Remediation Plan Progress Report**
139 Brampton Road (former Rheem Manufacturing)
Savannah, Chatham County, Georgia
HSI Site No. 10208 Tax Parcel ID#1-0720-01-002

Dear Mr. Williams:

On behalf of Dale Hendrix, Sr., Trustee under Trust for Benefit of Brenda Heisey, and Rheem Manufacturing Company, AMEC Environment & Infrastructure, Inc. (AMEC) respectfully submits this Progress Report No.3 for the 139 Brampton Road property in Savannah, Chatham County, Georgia (HSI Site No. 10208, Tax Parcel ID#1-0720-01-002). This progress report is required by the Voluntary Remediation Program (VRP) statute and requested by the Georgia Environmental Protection Division (EPD) in their comment letter dated October 4, 2011.

This report is for the exclusive use of Mr. Dale Hendrix, Sr., Trustee under Trust for Benefit of Brenda Heisey and Rheem Manufacturing Company, and for regulatory submittal. If you have any questions and/or comments regarding the material presented in the report, please contact Mr. Chuck Ferry (404) 817-0107 or by email at chuck.ferry@amec.com.

Sincerely,

AMEC E&I, Inc.

Tyler Boyles
Project Geologist

Charles T. Ferry, P.E.
Senior Principal Engineer

cc: Ms. Hollister A. Hill, Troutman Sanders, LLP
Ms. Barbara Ann Cook, Rheem Manufacturing Company
Mr. Dwight Feemster, Duffy & Feemster, LLC

Project No. 6121-09-0220

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1.0 PROJECT SUMMARY

The 139 Brampton Road Site ("Site") is an approximately 11.1-acre parcel of land located in Savannah, Chatham County, Georgia. The property is commercially developed with various structures which are currently leased for warehousing of wood construction products and for office space. Historically, the Site was developed in the early 1960s for the reconditioning and manufacturing of drums. Site operations continued in a similar manner by various entities until the mid 1970s when drum reconditioning activities were reported to have stopped. However, the drum manufacturing operation continued at the Site from the mid 1970s until the early 1990s. Since 1994 the Site has been occupied by various commercial tenants for warehousing and office space.

The subject Property is zoned heavy industrial and is located in close proximity to the Georgia Port Authority – Garden City Terminal Container Port in Savannah, Georgia. The Property has been utilized for commercial/industrial purposes for approximately 5 decades.

The property has been the subject of a number of environmental assessments conducted between 1985 and 2009, which revealed the presence of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals in soil and groundwater. The property was listed on the Hazardous Site Inventory (HSI) in June 1994 as site number 10208 due to the presence of lead in soil and tetrachloroethene in groundwater.

A Voluntary Remediation Plan Application (VRPA), dated December 13, 2010, was submitted to Georgia Environmental Protection Division (EPD) to enter the Site into the Voluntary Remediation Program (VRP). The Georgia EPD approved the VRPA with conditions and comments presented in two letters dated October 4, 2011 and accepted the 139 Brampton Road property into the VRP.

This Semi-Annual Voluntary Remediation Plan Progress Report No. 3 was prepared in accordance with the Voluntary Remediation Plan (VRP) for the 139 Brampton Road Site, HSI Site No. 10208/Tax Parcel ID#1-0720-01-002.

2.0 ACTIONS TAKEN SINCE LAST SUBMITTAL

The activities identified to be performed for this period at the 139 Brampton Road Site are outlined in the approved VRPA, as modified by EPD's conditions and comments presented in its VRPA approval letter dated October 4, 2011. The activities that have been performed since submittal of the Semi-Annual Progress Report No. 2 dated October 30, 2012 are described in the following sections.

2.1 ADJACENT PROPERTY ACCESS

In its October 4, 2011 VRP approval letter, EPD requested that, based on current information, adjacent properties, McDonald Ventures (to the north), and Norfolk Southern (to the east/south), be included as additional qualifying properties. Including these properties as qualifying properties would have been based on historic sampling results over 13 years old and would not be based on current information as assumed in EPD's VRP approval letter. Therefore, the Trustee and Rheem contacted, by phone and letter, representatives of both McDonald Ventures and Norfolk Southern to inform them that the 139 Brampton Road property was in the VRP program, that an access agreement for testing on each of their properties was needed, and that a Uniform Environmental Covenant for their property may be needed. McDonald Ventures provided a 2005 Phase I Environmental Assessment Report for its property which stated that there was no Recognized Environmental Condition associated with that property. The Trustee and Rheem continued to contact representatives of both McDonald Ventures and Norfolk Southern in order to obtain access agreements and conduct updated assessment activities to evaluate whether it is necessary to add these properties as a VRP property. The Trustee and Rheem finalized and executed an Access Agreement with McDonald Ventures dated February 1, 2013. This allowed the performance of additional assessment on the property to the north during this 3rd Semi-Annual Report Period. Results of this investigation are presented herein.

The Trustee and Rheem and their attorneys sent to representatives of Norfolk Southern a draft Access Agreement with a proposed off-site scope of work plan. The proposed off-site scope of work plan and sample location figure for the Norfolk Sothern property has been included in Appendix A. Based on conversations with representatives of Norfolk Southern, the Trustee and Rheem believe an acceptable access agreement will be executed soon. However, despite concerted efforts on the part of the Trustee and Rheem and their attorneys, an executed access

agreement with Norfolk Southern has not been finalized at this time. Therefore, it was not possible to collect updated samples on the property to the south and east during the 3rd Semi-Annual Report Period. Most recently, in an email dated March 14, 2013, representatives of Norfolk Southern requested modifications which were provided to Norfolk Southern on March 19, 2013. Subject to further negotiations and obtaining an executed access agreement with Norfolk Southern, sampling on their property is anticipated to occur in the 4th Semi-Annual Period of this project.

2.2 ADDITIONAL ASSESSMENT ACTIVITIES

The additional assessment activities completed during the previous six-month period include further on-Site horizontal delineation of soil impacts which included the installation of eight soil test borings, and off-site soil and groundwater characterization on the adjacent property to the north (McDonald Ventures), which included the installation of five soil test borings, one of which was converted to a groundwater monitoring well. The field work was conducted between March 18 and 20, 2013. The locations of the borings and wells are presented on Figures 1 and 2. Boring logs and well construction details are included in Appendix C.

All downhole equipment, tools and materials were decontaminated prior to use and between each boring to minimize the potential for introduced and/or cross contamination. Decontamination of equipment and appropriate sampling protocols were observed throughout the drilling operation to preclude the introduction of contaminants. The field work was supervised by environmental professionals and the work was conducted under the provisions of our Health and Safety Plan.

2.2.1 On-Site Soil Sampling and Testing

To further delineate known impacts of regulated substances which exceeded the Soil Delineation Concentration Criteria, eight soil test borings were installed in March 2013 at selected locations on-Site using a direct push drill rig. The soil borings were extended to depths of 10 feet below ground surface. Soil samples were generally collected at two-foot intervals in the upper eight feet which is just above the documented shallow groundwater table.

The collected soil samples were stored on ice and maintained under chain-of-custody control from the time they were collected until they were released to the laboratory. A portion of each

sample was collected separately in a Ziploc bag and field screened for texture, odors and stains. The samples were also scanned for the presence of volatile organic compounds (VOCs) using a photoionization detector (PID).

The soil borings generally encountered a surface layer of stone aggregate, concrete or vegetated topsoil which was underlain by alternating silty to clayey sands. No odors, stains, or elevated PID readings were observed during the field activities. The boreholes were backfilled with bentonite. The results of the PID field screening are presented on the attached boring logs in Appendix C.

A total of nine soil samples from the eight borings, including two duplicate samples for quality control purposes, were selected for laboratory analysis to further delineation known on-site impacts which exceeded the Soil Delineation Concentration Criteria. The soil samples were placed into pre-cleaned, laboratory-provided containers, packed on ice and transported to Xenco Laboratories (Xenco) in Norcross, Georgia. In order to determine the lateral extent of on-Site soil impacts, six samples were analyzed for lead (EPA Method 6010) and five samples for Volatile Organic Compound (VOCs, EPA Method 8260B). A summary of the on-site soil testing results is presented in the attached Table 1A and soil testing results are graphically depicted on Figures 1A and 1B for the cumulative on-site and off-site data. Complete laboratory reports along with quality control documentation can be found in Appendix B.

As detailed in the first progress report dated April 30, 2012, one soil sample collected from boring GP-05 at a depth of 2-3 feet in March 2012 exhibited concentrations of tetrachloroethene (PCE) and trichloroethene (TCE) above their respective Soil Delineation Concentration Criteria of 0.5 mg/kg. As such, a total of four soil samples collected in March 2013 during this progress period were analyzed for VOCs to bound the lateral extent of impacts identified at GP-05. The laboratory testing results identified the presence of acetone in three of the four samples tested at concentrations well below the Soil Delineation Concentration Criteria of 400 mg/kg. The source of the acetone is likely a common laboratory artifact created by the interaction of natural soil constituents and the sample preservative. Nevertheless, delineation for acetone has been completed. No other VOCs were detected in the March 2013 soil samples. Therefore, based on the existing soil data, the impacts of PCE and TCE detected at GP-05 in March 2012 have been horizontally delineated to the Soil Delineation Concentration Criteria.

A total of six soil samples collected in March 2013 were tested for the presence of lead in order to further define the lateral extent of known shallow lead impacts on-Site. Soil samples were collected from a depth of 1 foot below ground surface. The results of the additional soil testing identified lead in all six samples at concentrations ranging from 6.49 mg/kg to 10.7 mg/kg. Based on the existing soil data, the shallow lead impacts have been horizontally delineated on-Site to the Soil Delineation Concentration Criteria.

2.2.2 Off-Site Soil Sampling and Testing

As mentioned in Section 2.1, EPD's October 4, 2011 VRP approval letter requested that the adjacent property to the north (McDonald Ventures) be included as an additional qualifying property based on historic sampling results. The Trustee and Rheem finalized an access agreement with McDonald Ventures in February 2013 to perform soil and groundwater testing.

Based on historic soil sampling results obtained in October 1999 and March 2000, shallow lead impacts have been identified on the McDonald Ventures property at concentrations above the Soil Delineation Concentration Criteria of 75 mg/kg, but well below established cleanup values. Since that time, a commercial warehouse building has been constructed on the McDonald Ventures property which covers the area of the previously identified shallow lead impacts. As such, to further define the lateral extent of shallow lead impacts above the Soil Delineation Concentration Criteria, four soil test borings (GP-27 to GP-30) were advanced in March 2013 at selected locations to the north and east of the existing structure on the McDonald Ventures property using a direct push drill rig. The borings were generally extended to depths of 10 feet below ground surface.

Soil samples were collected at two-foot intervals in the upper eight feet and field screened for the presence of VOCs using a photoionization detector (PID). The soil borings generally encountered a surface layer of concrete or vegetated topsoil which was underlain by alternating silty to clayey sands. No odors, stains, or elevated PID readings were observed during the field activities. The boreholes were backfilled with bentonite. The results of the PID field screening are presented on the attached boring logs in Appendix C.

A total of four soil samples were collected in March 2013 from a depth of 1 foot below ground surface. The collected soil samples were placed into pre-cleaned, laboratory-provided containers, packed on ice and transported to Xenco Laboratories (Xenco) in Norcross, Georgia for testing. The soil samples were analyzed for lead (EPA Method 6010). A summary of the soil testing results is presented in the attached Table 1 and are graphically depicted on Figure 1B. Complete laboratory reports along with quality control documentation can be found in Appendix B.

The results of the updated soil testing on the McDonald Ventures property identified presence of lead in three of the four samples at concentrations ranging from 17.8 mg/kg to 71 mg/kg which is below the Soil Delineation Concentration Criteria of 75 mg/kg. As such, based on the existing soil data, the shallow lead impacts have been adequately delineated to the Soil Delineation Concentration Criteria on the off-site property to the north (McDonald Ventures).

2.2.3 Off-site Groundwater Sampling and Testing

In order to further assess off-site groundwater conditions on the McDonald Ventures property, one groundwater monitoring well (EW-3) was installed in March 2013 in a boring advanced with hollow-stem augers. The well was constructed using 2-inch diameter PVC pipe with the lower 10 feet consisting of 0.01-inch slotted PVC screen. A filter pack consisting of bagged quartz sand was placed around the well screen to approximately two feet above the screen. Approximately two feet of hydrated bentonite was placed above the sand pack as a seal. The remainder of the borehole annulus was filled to the surface with cement grout. The monitoring well, EW-3, was completed at the surface with a locking cap and flush-mounted well cover.

At least 24 hours following installation, EW-3 was developed to remove sediment and allow representative formation water to more easily enter the well. In addition, the existing monitoring well installed in October 1999, GW-9, located on the McDonald Ventures property also was purged and sampled during this progress period. Groundwater quality parameters including temperature, pH, specific conductance and turbidity were monitored and are summarized on the attached field data sheets in Appendix D. Well development continued until these parameters had stabilized and a minimum of three to five well volumes of water were removed. Samples were collected immediately following purging/development using the "straw" method and were placed

in containers provided by the laboratory, packed on ice and were maintained under chain-of-custody control from the time they were collected until they were released to the laboratory.

The two groundwater samples were tested for the presence of VOCs (EPA Method 8260B). The results of the current monitoring event are summarized on the attached Table 2 and Figure 2. Complete laboratory analysis reports can be found in Appendix B.

No VOCs were detected in the newly installed well EW-3. Several VOCs including tetrachloroethene (PCE), trichloroethene (TCE), benzene, 1,1 dichloroethene, and 1,1 dichloroethane, were detected in the existing off-site well GW-9. In 1999, these same constituents, along with 1,2 dichloroethene, were detected in GW-9 but at higher concentrations. In conjunction with the on-Site groundwater sampling presented in the Progress Report No. 1 dated April 30, 2012, the decrease in VOC constituents in GW-9 since 1999 continues to support the conclusion that the groundwater contaminant plume is naturally attenuating.

2.2.4 Groundwater Elevation

Following well installation, the additional off-site well installed by AMEC was surveyed relative to documented elevation points to establish the top of casing elevation. Water level measurements were made in the two off-site wells and the five on-Site wells using an electronic water level indicator from the top of the casing. Based on the water level measurements, the potentiometric surface elevations were calculated and the groundwater flow direction was interpreted to be to the east-southeast towards the Dundee Canal, consistent with previous findings. The water level data are tabulated on Table 3 and are illustrated, along with interpreted water table contours, on Figure 3.

3.0 SCHEDULE AND FUTURE SUBMITTALS

As required by EPD, semi-annual progress reports must be submitted to EPD by every April 30th and October 30th throughout the duration of this project. An updated milestone schedule is included as Table 4 which describes the activities yet to be performed. A breakdown of professional service hours with a description of the services provided is included in Appendix D.

4.0 PROFESSIONAL ENGINEER CERTIFICATION STATEMENT

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

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

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

Charles T. Ferry

Mr. Charles T. Ferry, P.E.
Georgia Registration No. 10957

TABLES

139 BRAMPTON ROAD
SAVANNAH, GEORGIA

TABLE 1A - SUMMARY OF ON-SITE SOIL TEST RESULTS

Sample ID	Soil Delineation Concentration Criteria	GP-31	GP-32	GP-32	GP-33	GP-34	GP-35
Sample Date		3/19/2013	3/19/2013	3/19/2013	3/19/2013	3/19/2013	3/19/2013
Sample Depth		1	1	1-2	1	2-3	2-3
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	20	NA	NA	<0.00492	NA	<0.00510	<0.00519
1,2-Dichlorobenzene	60	NA	NA	<0.00492	NA	<0.00510	<0.00519
1,3-Dichlorobenzene	60	NA	NA	<0.00492	NA	<0.00510	<0.00519
1,4-Dichlorobenzene	7.5	NA	NA	<0.00492	NA	<0.00510	<0.00519
1,4-Dioxane	4.9	NA	NA	<0.0984	NA	<0.102	<0.104
2-Butanone	200	NA	NA	<0.0492	NA	<0.0510	<0.0519
Acetone	400	NA	NA	**0.0107**	NA	**0.0113**	**0.0105**
Benzene	0.5	NA	NA	<0.00492	NA	<0.00510	<0.00519
Carbon Disulfide	400	NA	NA	<0.00492	NA	<0.00510	<0.00519
Chlorobenzene	10	NA	NA	<0.00492	NA	<0.00510	<0.00519
cis-1,2-Dichloroethene	7	NA	NA	<0.00492	NA	<0.00510	<0.00519
Cyclohexane	20	NA	NA	<0.00492	NA	<0.00510	<0.00519
Ethylbenzene	70	NA	NA	<0.00492	NA	<0.00510	<0.00519
Isopropylbenzene	21.88	NA	NA	<0.00492	NA	<0.00510	<0.00519
Methylcyclohexane	NR	NA	NA	<0.00492	NA	<0.00510	<0.00519
Tetrachloroethene	0.5	NA	NA	<0.00492	NA	<0.00510	<0.00519
Toluene	100	NA	NA	<0.00492	NA	<0.00510	<0.00519
trans-1,2-Dichloroethene	10	NA	NA	<0.00492	NA	<0.00510	<0.00519
Trichloroethene	0.5	NA	NA	<0.00492	NA	<0.00510	<0.00519
Xylenes, mixture	1,000	NA	NA	<0.00984	NA	<0.0102	<0.0104
Polyaromatic Hydrocarbons (PAHs)							
1-Methylnaphthalene	NR	NA	NA	NA	NA	NA	NA
Metals							
Arsenic	20	NA	NA	NA	NA	NA	NA
Barium	1,000	NA	NA	NA	NA	NA	NA
Cadmium	2	NA	NA	NA	NA	NA	NA
Chromium	100	NA	NA	NA	NA	NA	NA
Lead	75	**6.86**	**8**	NA	**6.49**	NA	NA
Mercury	0.5	NA	NA	NA	NA	NA	NA
Selenium	2	NA	NA	NA	NA	NA	NA
Silver	2	NA	NA	NA	NA	NA	NA

Notes:

Bold - Constituent has been detected at or above the reporting limit.
NA - Not Analyzed
NR - Not a regulated substance

Prepared By: Tyler Boyles
Checked By: Karyl Harwell

139 BRAMPTON ROAD
SAVANNAH, GEORGIA

TABLE 1A - SUMMARY OF ON-SITE SOIL TEST RESULTS

Sample ID	Soil Delineation Concentration Criteria	DUP-2 GP-35	GP-36	GP-37	GP-38	DUP-1 GP-38
Sample Date		3/19/2013	3/19/2013	3/19/2013	3/19/2013	3/19/2013
Sample Depth		2-3	2-3	1	1	1
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	20	<0.00558	<0.00566	NA	NA	NA
1,2-Dichlorobenzene	60	<0.00558	<0.00566	NA	NA	NA
1,3-Dichlorobenzene	60	<0.00558	<0.00566	NA	NA	NA
1,4-Dichlorobenzene	7.5	<0.00558	<0.00566	NA	NA	NA
1,4-Dioxane	4.9	<0.112	<0.113	NA	NA	NA
2-Butanone	200	<0.0558	<0.0566	NA	NA	NA
Acetone	400	**0.0118**	<0.0113	NA	NA	NA
Benzene	0.5	<0.00558	<0.00566	NA	NA	NA
Carbon Disulfide	400	<0.00558	<0.00566	NA	NA	NA
Chlorobenzene	10	<0.00558	<0.00566	NA	NA	NA
cis-1,2-Dichloroethene	7	<0.00558	<0.00566	NA	NA	NA
Cyclohexane	20	<0.00558	<0.00566	NA	NA	NA
Ethylbenzene	70	<0.00558	<0.00566	NA	NA	NA
Isopropylbenzene	21.88	<0.00558	<0.00566	NA	NA	NA
Methylcyclohexane	NR	<0.00558	<0.00566	NA	NA	NA
Tetrachloroethene	0.5	<0.00558	<0.00566	NA	NA	NA
Toluene	100	<0.00558	<0.00566	NA	NA	NA
trans-1,2-Dichloroethene	10	<0.00558	<0.00566	NA	NA	NA
Trichloroethene	0.5	<0.00558	<0.00566	NA	NA	NA
Xylenes, mixture	1,000	<0.0112	<0.0113	NA	NA	NA
Polyaromatic Hydrocarbons (PAHs)						
1-Methylnaphthalene	NR	NA	NA	NA	NA	NA
Metals						
Arsenic	20	NA	NA	NA	NA	NA
Barium	1,000	NA	NA	NA	NA	NA
Cadmium	2	NA	NA	NA	NA	NA
Chromium	100	NA	NA	NA	NA	NA
Lead	75	NA	NA	**10.7**	**7.9**	**8.3**
Mercury	0.5	NA	NA	NA	NA	NA
Selenium	2	NA	NA	NA	NA	NA
Silver	2	NA	NA	NA	NA	NA

Notes:

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NR - Not a regulated substance

Prepared By: Tyler Boyles
Checked By: Karyl Harwell

139 BRAMPTON ROAD
SAVANNAH, GEORGIA

TABLE 1B - SUMMARY OF OFF-SITE SOIL TEST RESULTS

Sample ID	Soil Delineation Concentration Criteria	GP-27	GP-28	GP-29	GP-30
Sample Date		3/19/2013	3/19/2013	3/19/2013	3/19/2013
Sample Depth		1	1	1	1
Units		mg/kg	mg/kg	mg/kg	mg/kg
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	20	NA	NA	NA	NA
1,2-Dichlorobenzene	60	NA	NA	NA	NA
1,3-Dichlorobenzene	60	NA	NA	NA	NA
1,4-Dichlorobenzene	7.5	NA	NA	NA	NA
1,4-Dioxane	4.9	NA	NA	NA	NA
2-Butanone	200	NA	NA	NA	NA
Acetone	400	NA	NA	NA	NA
Benzene	0.5	NA	NA	NA	NA
Carbon Disulfide	400	NA	NA	NA	NA
Chlorobenzene	10	NA	NA	NA	NA
cis-1,2-Dichloroethene	7	NA	NA	NA	NA
Cyclohexane	20	NA	NA	NA	NA
Ethylbenzene	70	NA	NA	NA	NA
Isopropylbenzene	21.88	NA	NA	NA	NA
Methylcyclohexane	NR	NA	NA	NA	NA
Tetrachloroethene	0.5	NA	NA	NA	NA
Toluene	100	NA	NA	NA	NA
trans-1,2-Dichloroethene	10	NA	NA	NA	NA
Trichloroethene	0.5	NA	NA	NA	NA
Xylenes, mixture	1,000	NA	NA	NA	NA
Polyaromatic Hydrocarbons (PAHs)					
1-Methylnaphthalene	NR	NA	NA	NA	NA
Metals					
Arsenic	20	NA	NA	NA	NA
Barium	1,000	NA	NA	NA	NA
Cadmium	2	NA	NA	NA	NA
Chromium	100	NA	NA	NA	NA
Lead	75	**17.8**	**71**	**41.6**	<5.23
Mercury	0.5	NA	NA	NA	NA
Selenium	2	NA	NA	NA	NA
Silver	2	NA	NA	NA	NA

Notes:

Bold - Constituent has been detected at or above the reporting limit.

NA - Not Analyzed

NR - Not a regulated substance

Prepared By: Tyler Boyles
Checked By: Karyl Harwell

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SAVANNAH, GEORGIA

TABLE 2 - SUMMARY OF GROUNDWATER TEST RESULTS

Sample ID	**GW-9**		**EW-3**
Sample Date	**10/7/1999**	**3/20/2013**	**3/20/2013**
Units	**µg/L**	**µg/L**	**µg/L**
Volatile Organic Compounds (VOCs)			
1,1 Dichloroethane	**28**	**6.14**	<1.0
1,1 Dichloroethene	**39**	**15**	<1.0
1,1,1-Trichloroethane	<5.0	<1.0	<1.0
1,1,2-Trichloroethane	<5.0	<1.0	<1.0
1,2-Dichlorobenzene	NA	<1.0	<1.0
1,2 Dichloroethane	<5.0	<1.0	<1.0
1,2 Dichloroethene	**9.1**	<1.0	<1.0
Benzene	**8**	**1.22**	<1.0
Chlorobenzene	<5.0	<1.0	<1.0
cis-1,2-Dichloroethene	<5.0	<1.0	<1.0
Ethylbenzene	<5.0	<1.0	<1.0
Methyl tert-butyl ether	<5.0	<2.0	<2.0
Tetrachloroethene	**24**	**5.51**	<1.0
Toluene	<5.0	<1.0	<1.0
trans-1,2-Dichloroethene	<5.0	<1.0	<1.0
Trichloroethene	**12**	**1.65**	<1.0
Xylenes	<10	<2.0	<2.0

Notes:
Results reported in µg/L - micrograms per liter
Bold type denotes above laboratory reporting limits
Non-bold type denotes laboratory detection limits
NA - Not Analyzed

Prepared By: Tyler Boyles
Checked By: Karyl Harwell

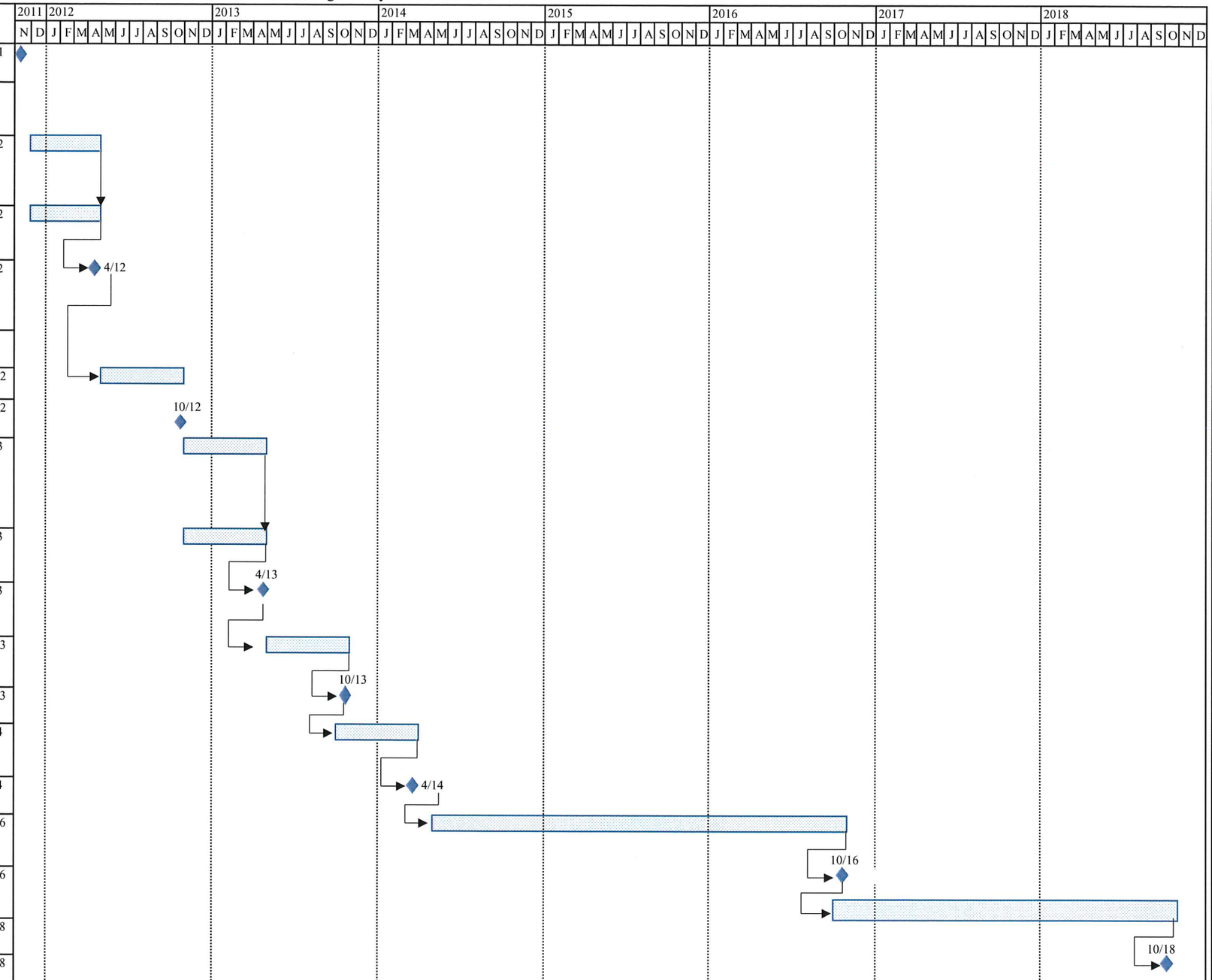
139 BRAMPTON ROAD
SAVANNAH, GA

TABLE 3 - GROUNDWATER ELEVATION

Well ID	Measurement Date	Well Elevation, FT*	Depth of Well, FT	Well Screen Interval, FT	Depth to Water, FT	Groundwater Elevation, FT
Monitoring Wells Located On-Site						
W-5	3/27/1997	14.67	20	15-20	9.34	5.33
	4/1/1998				7.71	6.96
	10/7/1999				9.03	5.64
	3/29/2000				9.55	5.12
	3/8/2012				9.95	4.72
	3/20/2013				9.64	5.03
GW-1	3/27/1999	18.23	20	15-20	11.61	6.62
	4/1/1998				10.03	8.20
	10/7/1999				11.04	7.19
	3/29/2000				11.79	6.44
	3/8/2012				12.72	5.51
	3/20/2013				12.41	5.82
GW-7	10/7/1999	17.52	14	4-14	10.1	7.42
	3/29/2000				10.88	6.64
	3/8/2012				11.02	6.5
	3/20/2013				10.73	6.79
EW-1	3/8/2012	20.55	15	5-15	12.2	8.35
	3/20/2013				11.16	9.39
EW-2	3/8/2012	14.04	15	5-15	8.92	5.12
	3/20/2013				8.65	5.39
Monitoring Wells Located Off-Site						
GW-5	4/1/1998	18.12	19.3	9.3-19.3	10.4	7.72
	10/7/1999				9.82	8.3
	3/29/2000				11.62	6.5
GW-6	4/1/1998	11.38	18.5	8.5-18.5	5.48	5.9
	10/7/1999				5.6	5.78
	3/29/2000				5.7	5.68
GW-9	10/7/1999	6.13	34	24-34	0.94	5.19
	3/29/2000				1.05	5.08
	3/8/2012				1.67	4.46
	3/20/2013				1.54	4.59
GW-10	10/7/1999	14.5	34	24-34	8.6	5.9
	3/29/2000				9.55	4.95
GW-12	3/29/2000	8.24	19	9-19	5.68	2.56
EW-3	3/20/2013	12.0	13	3-13	6.99	5.01

Former Rheem Manufacturing Facility - Gantt Schedule

Item	Task Name	Duration	Start	Finish
1	Prepare milestone schedule and cost estimate for financial assurance	Complete		12/8/2011
2	Execute access agreement with adjacent properties to the north, south and east and include additional qualifying parcels to the VRPA	Started		
	Perform initial groundwater assessment program which will consist of sampling existing on-site wells (3 known), installation and sampling additional on-site wells and hydraulic conductivity tests.	Complete		4/30/2012
	Perform additional soil characterization to further delineate known lead impacts and check for impacts of regulated substances listed in Table 3 of the VRPA.	Complete		4/30/2012
	Prepare First Progress Report which will include fate and transport model, status of existing monitoring well network, revised RRS for all constituents, updated Conceptual Site Model (CSM) and milestone schedule.	Complete		4/30/2012
3	Continue negotiating access agreements with adjacent properties to the north, south and east			
	Perform Vapor Intrusion Risk Evaluation	Complete		10/30/2012
	Prepare Second Progress Report with vapor intrusion into on-site building modeling, updated CSM and milestone schedule.	Complete		10/30/2012
4	Begin off-site groundwater delineation on property to the north which consisted of sampling one existing off-site well, installation and sampling of one additional off-site well.	6 months	10/30/2012	4/30/2013
	Begin off-site soil characterization on property to the north to delineate impacts of regulated substances. Complete horizontal delineation of on-site soil impacts.	6 months	10/30/2012	4/30/2013
	Prepare Third Progress Report with updated CSM and milestone schedule.		4/30/2013	4/30/2013
5	Anticipate off-site soil and groundwater characterization on property to the east and south to delineate impacts of regulated substances.	6 months	4/30/2013	10/30/2013
	Prepare Fourth Progress Report with updated CSM and milestone schedule		10/30/2013	10/30/2013
6	Complete vertical delineation of soil and groundwater, update CSM, finalize VRP and provide preliminary cost estimate for soil remediation activities using soil averaging.	6 months	10/30/2013	4/30/2014
	Prepare Fifth Progress Report with updated CSM and milestone schedule		4/30/2014	4/30/2014
7	Complete soil remediation activities using soil averaging, complete all assessment and modeling efforts, prepare sixth through ninth Progress Reports.	30 Months	4/30/2014	10/30/2016
8	Submit Compliance Status Report to certify soil and vapor compliance and demonstrate no risk of exposure for groundwater impacts		10/30/2016	10/30/2016
9	Assume two years of semi-annual groundwater monitoring and reporting	24 months	10/30/2016	10/30/2018
	Submit Delisting request			10/30/2018



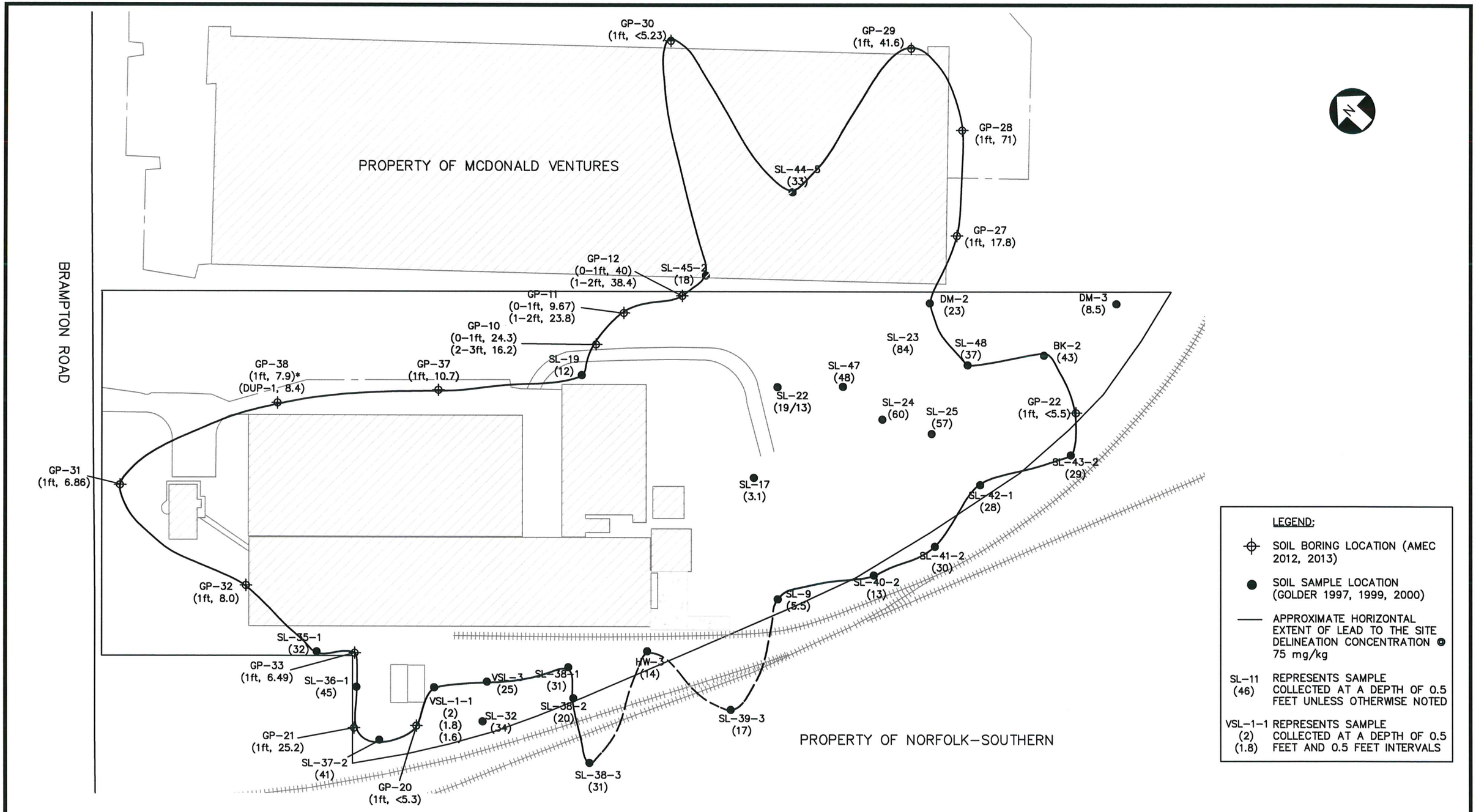
Project: Former Rheem Manufacturing Facility
Date: 4/30/2013
MACTEC Project No. 6121-09-0220

Task

Milestone

FIGURES

M:\oldUdrive\Projects\Former Rheem Manufacturing Facility\Figures\April 2013\Rheem – Lead.dwg – FIG 1 – LEAD DELINEATION 04/30/2013



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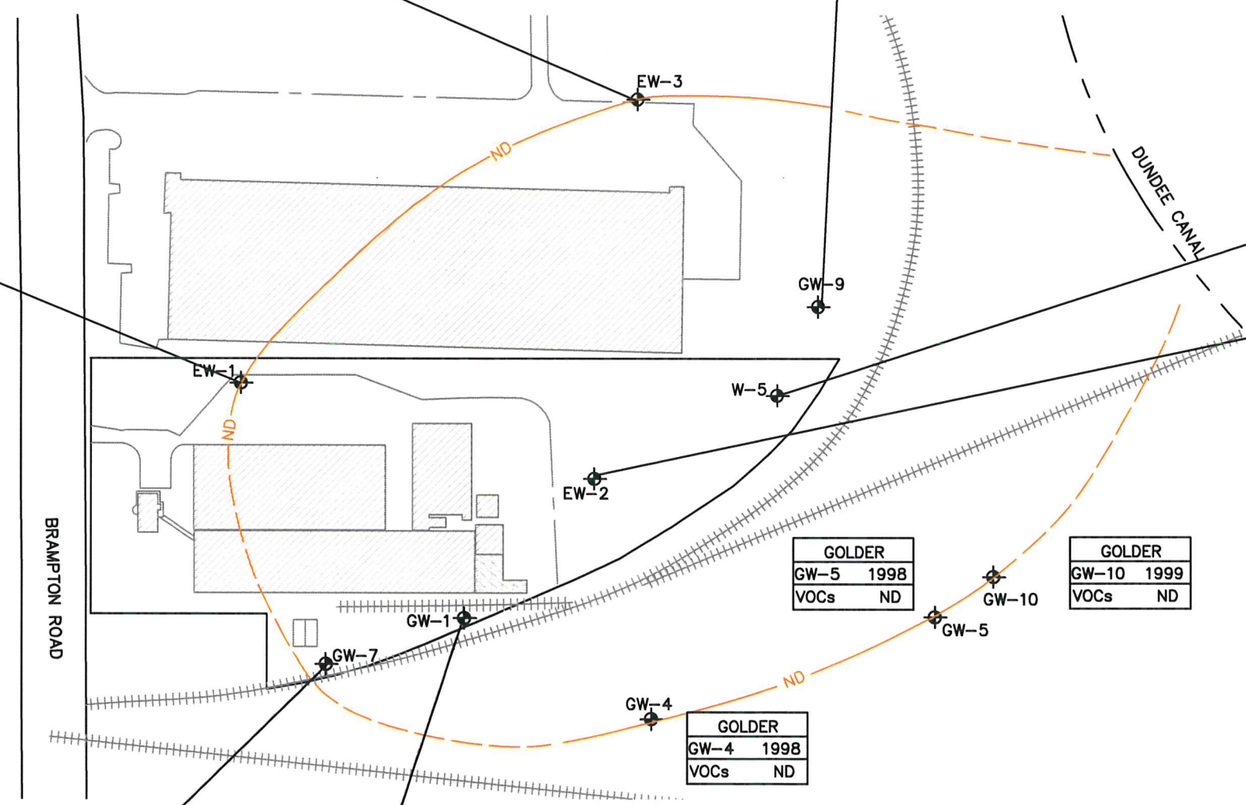
396 PLASTERS AVENUE, N.E.
ATLANTA, GEORGIA 30324 (404)873-4761

139 BRAMPTON ROAD
SAVANNAH, GEORGIA

HORIZONTAL EXTENT OF LEAD IMPACTED SOIL

Job Number	Task	Date	Scale	Drawn By	Reviewed By	Figure
6121–09–0220	01	APR 2013	AS SHWON	TJB	CTF	1B

M:\oldUdrive\Projects\Former Rheem Manufacturing Facility\Figures\April 2013\Rheem – GW-POT.dwg – APRIL 2013 VRP – GW RESULTS 04/30/2013



AMEC	
EW-3	3/20/2013
VOCs	BRL

AMEC	
EW-1	3/8/2012
VOCs	BRL
METALS	
BARIUM, TOTAL	74
BARIUM, DISSOLVED	68.5

	GOLDER	AMEC
GW-9	1999	2013
VOCs		
1,1 DICHLOROETHANE	28	6.14
1,1 DICHLOROETHENE	39	15
1,2 DICHLOROETHENE	9.1	<1.0
BENZENE	8	1.22
TETRACHLOROETHENE	24	5.51
TRICHLOROETHENE	12	1.65

W-5	DAMES & MOORE	EMC	GOLDER	AMEC
	11/6/1987	3/1993	1997	3/8/2012
VOCs				
1,1 DICHLOROETHANE	9.7	127.7	19	28
1,1 DICHLOROETHENE	ND	ND	110	70
1,2 DICHLOROETHANE	ND	ND	12	<5.0
cis 1,2 DICHLOROETHENE	ND	ND	ND	6.3
trans 1,2 DICHLOROETHENE	ND	3.9	ND	<5.0
1,1,2 TRICHLOROETHANE	ND	ND	7	<5.0
BENZENE	ND	ND	8.4	<5.0
TETRACHLOROETHENE	12	26.6	16	120
TRICHLOROETHENE	ND	ND	ND	57
VINYL CHLORIDE	ND	8.5	ND	<2.0
METALS				
BARIUM, TOTAL	200	NT	NT	33.3
BARIUM, DISSOLVED	NT	NT	NT	31.8
NICKEL	30	NT	NT	NT

AMEC	
EW-2	3/8/2012
VOCs	
1,1 DICHLOROETHANE	5.7
1,1 DICHLOROETHENE	7.7
cis 1,2 DICHLOROETHENE	16
METHYL TERT-BUTYL ETHER	5.1
TETRACHLOROETHENE	76
TRICHLOROETHENE	51
METALS	
BARIUM, TOTAL	74.1
BARIUM, DISSOLVED	56.5

GOLDER	
GW-5	1998
VOCs	ND

GOLDER	
GW-10	1999
VOCs	ND

GOLDER	
GW-4	1998
VOCs	ND

	GOLDER	AMEC
GW-7	1999	3/8/2012
VOCs		
XYLENES	ND	230
METALS	NT	BRL

	GOLDER	AMEC
GW-1	1997	3/8/2012
VOCs		
TETRACHLOROETHENE	23	<5.0
TRICHLOROETHENE	11	<5.0
METALS		
BARIUM, TOTAL	NT	34.1
BARIUM, DISSOLVED	NT	26.2

LEGEND:

- MONITORING WELL LOCATION
- VOCS — VOLATILE ORGANIC COMPOUNDS
- SVOCS — SEMI-VOLATILE ORGANIC COMPOUNDS
- ND — NOT DETECTED
- NT — NOT TESTED
- BRL — BELOW LABORATORY REPORTING LIMITS
- APPROXIMATE EXTENT OF TOTAL VOCs IN GROUNDWATER

NOTES:
RESULTS REPORTED IN MICROGRAMS PER LITER

SCALE IN FEET

0 250 500

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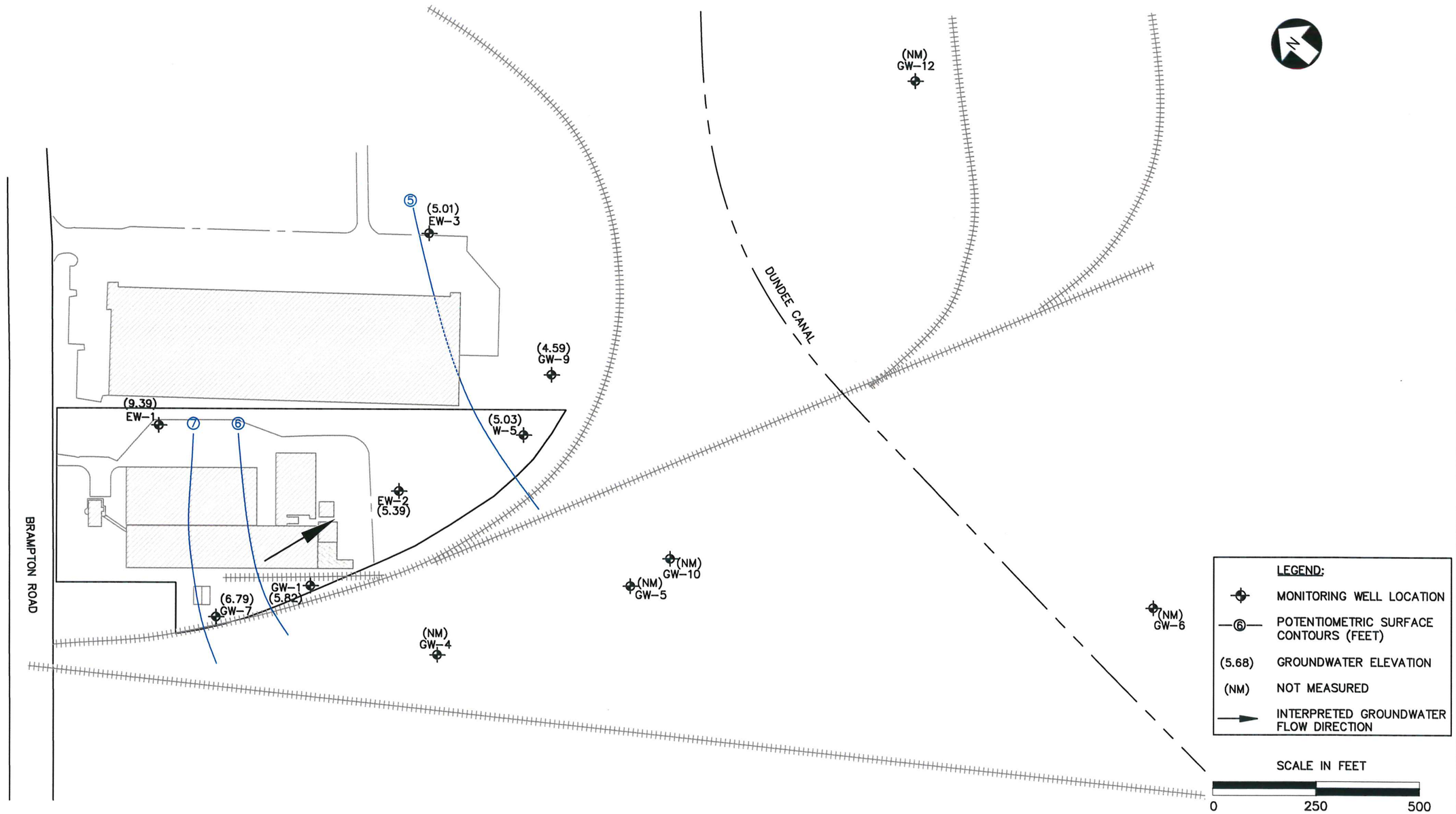
SAVANNAH, GEORGIA

SUMMARY OF GROUNDWATER TEST RESULTS

Job Number	Task	Date	Scale	Drawn By	Reviewed By	Figure
6121-09-0220	01	APR 2013	AS SHWON	RLA	TJB	2

M:\oldUdrive\Projects\Former Rheem Manufacturing Facility\Figures\April 2013\Rheem – GW-POT.dwg – April 2013 VRP – Pot Map 04/30/2013



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POTENTIOMETRIC SURFACE MAP (MARCH 2013)

Job Number	Task	Date	Scale	Drawn By	Reviewed By	Figure
6121-09-0220	01	APRIL 2013	AS SHWON	RLA	TJB	3

APPENDIX A

PROPOSED OFF-SITE SCOPE OF WORK FOR NORFOLK SOUTHERN PROPERY

January 10, 2013

Subject: **Heisey Trust Property (former Rheem Manufacturing Company facility)**
139 Brampton Road
Savannah, Georgia 31408

Voluntary Remediation Program Services
2013 Third Progress Report Period – April 2013
AMEC Project No. 6121-09-0220

THIRD SEMI-ANNUAL REPORTING PERIOD
PROPOSED OFF-SITE WORK PLAN ON NORFOLK SOUTHERN PROPERTY

Off-Site Access

In its October 4, 2011 VRP Approval Letter, GA EPD requested that the adjacent property to the east and south belonging to Norfolk Southern Corporation be included as an additional qualifying property. This was based on historic test results which may not reflect current conditions, so current sampling data is needed. To assist Rheem and Trustee in arranging for off-site access for current sampling, this proposed Work Plan describes the scope of sampling and testing to be performed on the Norfolk Southern property during the second semi-annual reporting period.

Further Soil Characterization on Norfolk Southern Property

In order to assess off-site soil conditions, we plan to install soil borings in the middle of the Norfolk Southern property located south of the 139 Brampton Road site property boundary. Two soil borings will be installed using a hand auger to a depth of approximately 4 feet. Soil samples will be collected at regular intervals and classified visually in the field. Two soil samples from each boring will be collected and transported to the laboratory. The shallow sample will be analyzed for lead. Based on the laboratory results, testing of deeper soil samples may be warranted. AMEC has prepared the attached figure with the location of our recommended placement of the additional soil borings.

The soil samples will be collected in laboratory-supplied containers and maintained on ice and under chain-of-custody control from the time they are collected until they are released to the laboratory. The samples will be submitted to Analytical Environmental Services, Inc. in Atlanta, Georgia and tested for the presence of lead (EPA Method 8270C).

Further Groundwater Characterization on Norfolk Southern Property

In order to further assess off-site groundwater conditions, AMEC plans to install additional monitoring wells at selected locations on the Norfolk Southern property during the second reporting period. The locations of the wells have been determined utilizing the data collected during the initial groundwater characterization effort. We plan to install three additional monitoring wells on the eastern portion of the Norfolk Southern property using a hand auger and one monitoring well on the western portion of the property using a geo-probe drill rig. AMEC has prepared the attached figure with the recommended placement for the additional wells.

In addition, the existing monitoring wells GW-4, GW-5 and GW-10 on the Norfolk Southern property will be sampled during this field event. If we are unable to locate some or all of these existing monitoring wells, then we propose to drill and install up to two new groundwater wells in the area of those previous wells on the Norfolk Southern property in order to collect current groundwater samples.

The groundwater samples will be collected in laboratory-supplied containers and maintained on ice and under chain-of-custody control from the time they are collected until they are released to the laboratory. The samples will be submitted to Analytical Environmental Services, Inc. in Atlanta, Georgia and tested for the presence of volatile organic compounds (VOCs via EPA Method 8260B).

In order to obtain the data necessary for the future calculations associated with a groundwater model, AMEC will also collect water samples from the wells which will be analyzed for parameters relevant to the fate and transport of groundwater contamination. Field parameters will be measured which include temperature, pH, specific conductance, dissolved oxygen and oxidation-reduction potential. Laboratory analyses will be performed which include total organic carbon, alkalinity, chloride, ethene, ethane, ferrous iron, methane, nitrate, nitrite, sulfate and sulfide.

Miscellaneous

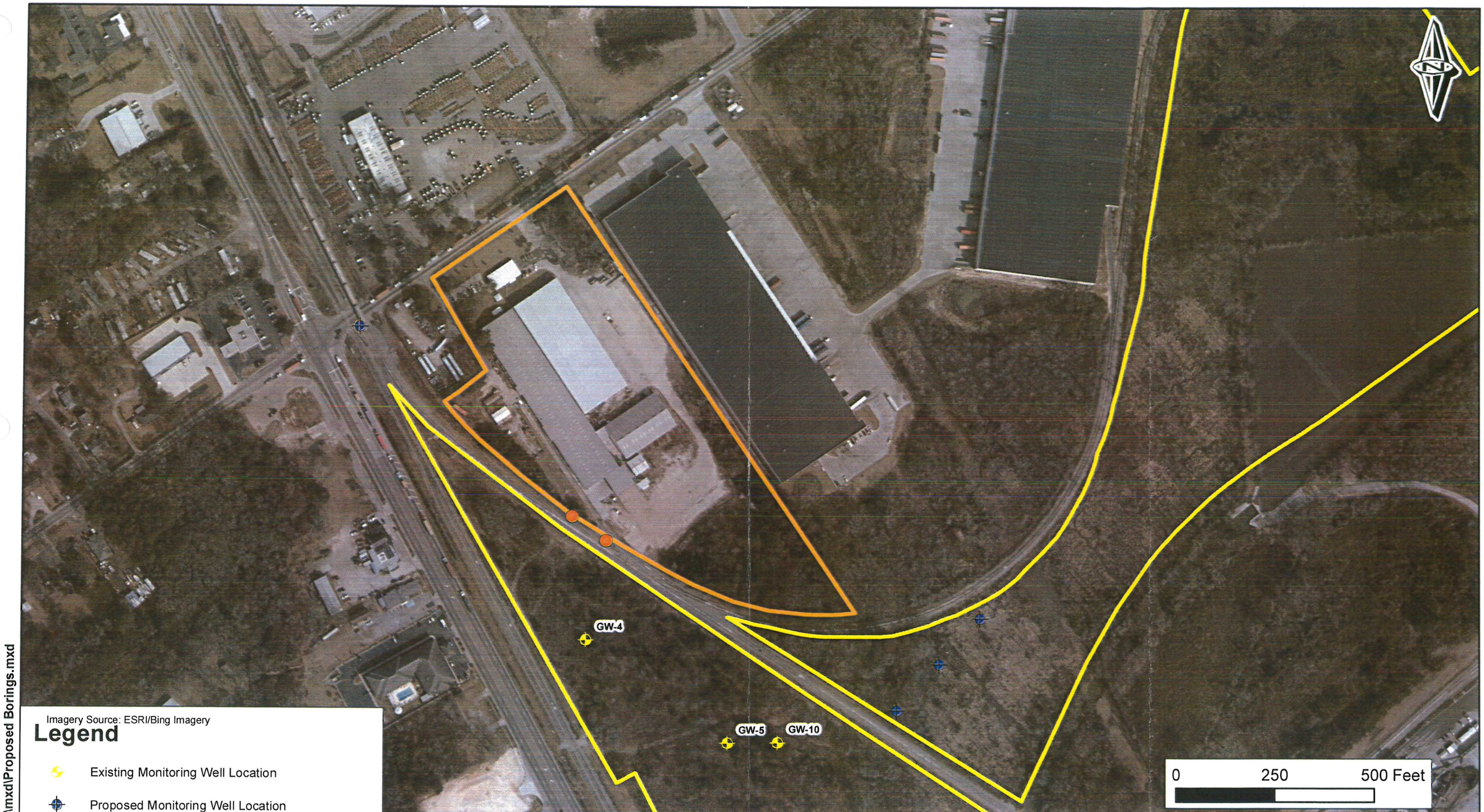
AMEC's activities will be performed in accordance with a site specific job hazard analysis and safety plan.

AMEC will call in a public utility clearance as required by law, and we will also have a private subcontractor clear each boring location prior to drilling.

Soil cuttings, well development water and other wastes will be drummed and the drums will be removed from the Norfolk Southern property upon completion of the field work.

Schedule

We anticipate that this field work will be conducted in March 2013 over a one week time period. AMEC will notify Norfolk Southern in advance of our specific schedule for property access.



Imagery Source: ESRI/Bing Imagery

Legend

- Existing Monitoring Well Location
- Proposed Monitoring Well Location
- Proposed Shallow Soil Boring Location
- Approximate Norfolk Southern Property Boundary
- Approximate Property Boundary

amec

139 Brampton Road
Savannah, Georgia

Norfolk Southern Property
Proposed Locations
For Soil Borings &
Groundwater Sampling

Job Number:	Task:	Date:	Scale:	Prepared By:	Reviewed By:	Figure:
6121-09-0220	01	March 2013	1:2,750	CLS	TJB	

Path: G:\Rhe\m\mxd\Proposed Borings.mxd

APPENDIX B

LABORATORY RESULTS FOR MARCH 2013 SAMPLING EVENT

Analytical Report 459815

for

AMEC E&I, Inc.

Project Manager: Tyler Boyles

139 Brampton Road

6121090220

29-APR-13

Collected By: Client

XENCO Laboratories
Florida Testing Services, LLC

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Lakeland: Florida (E84098)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

XENCO Laboratories
Florida Testing Services, LLC

29-APR-13

Project Manager: **Tyler Boyles**
AMEC E&I, Inc.
396 Plasters Ave
Atlanta, GA 30324

Reference: XENCO Report No(s): **459815**
139 Brampton Road
Project Address: Atlanta, GA

Tyler Boyles:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 459815. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 459815 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Dijana Piljak

Dijana Piljak
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America

Sample Cross Reference 459815

AMEC E&I, Inc., Atlanta, GA

139 Brampton Road

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GP-27-1'	S	03-19-13 10:10		459815-001
GP-28-1'	S	03-19-13 10:40		459815-003
GP-29-1'	S	03-19-13 11:05		459815-005
GP-30-1'	S	03-19-13 12:02		459815-007
GP-31-1'	S	03-19-13 13:55		459815-009
GP-32-1-2'	S	03-19-13 14:33		459815-011
GP-33-1'	S	03-19-13 15:30		459815-013
GP-34-2-3'	S	03-19-13 16:00		459815-015
GP-35-2-3'	S	03-19-13 16:29		459815-017
GP-36-2-3'	S	03-19-13 17:04		459815-019
GP-37-1'	S	03-19-13 17:15		459815-021
GP-38-1'	S	03-19-13 17:45		459815-023
DUP-1	S	03-19-13 17:45		459815-025
DUP-2	S	03-19-13 16:29		459815-026
GW-9	W	03-20-13 10:50		459815-027
EW-3	W	03-20-13 12:06		459815-028
Trip Blank	W	03-20-13 00:00		459815-029
GP-32-1'	S	03-19-13 14:31		459815-030
GP-27-2'	S	03-19-13 10:12		Not Analyzed
GP-28-2'	S	03-19-13 10:42		Not Analyzed
GP-29-2'	S	03-19-13 11:07		Not Analyzed
GP-30-2'	S	03-19-13 12:04		Not Analyzed
GP-31-2'	S	03-19-13 13:57		Not Analyzed
GP-32-3-4'	S	03-19-13 14:35		Not Analyzed
GP-33-2'	S	03-19-13 15:35		Not Analyzed
GP-34-3-5'	S	03-19-13 16:02		Not Analyzed
GP-35-3-5'	S	03-19-13 16:31		Not Analyzed
GP-36-3-5'	S	03-19-13 17:06		Not Analyzed
GP-37-2'	S	03-19-13 17:17		Not Analyzed
GP-38-2'	S	03-19-13 17:47		Not Analyzed

CASE NARRATIVE

Client Name: AMEC E&I, Inc.
Project Name: 139 Brampton Road

Project ID: *6121090220*
Work Order Number(s): *459815*

Report Date: *29-APR-13*
Date Received: *03/21/2013*

Sample receipt non conformances and comments:

Project Manager's Notations:

1. This revised report replaces the original revised report issued April 8, 2013. It has been determined that there was a possible calculation error in the percent moisture content. Percent moisture has been reanalyzed and the new result is reported in this report. No other changes have been made.

2. This revised report replaces the original issued March 29th, 2013. In order to better meet client site data quality objectives, a different VOC list has been reported. No other changes have been made to this report.

Sample receipt non conformances and comments per sample:

None

XENCO Laboratories
Florida Testing Services, LLC

Certificate of Analytical Results 459815

AMEC E&I, Inc., Atlanta, GA

139 Brampton Road

Sample Id: **GP-27-1'** Matrix: Soil Date Received: 03.21.13 13.06
Lab Sample Id: **459815-001** Date Collected: 03.19.13 10.10

Analytical Method: **Metals, Total by SW846 6010C** Prep Method: SW3050B
Tech: ABA % Moisture: 13.13
Analyst: 4150 Date Prep: 03.25.13 09.30 Basis: Dry Weight
Seq Number: 910078

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Lead	7439-92-1	**17.8**	5.19	mg/kg	03.28.13 14.46		1

Analytical Method: **Percent Moisture**
Tech: BLF % Moisture:
Analyst: NIV Basis: Wet Weight
Seq Number: 909917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**13.1**	0.100	%	03.26.13 13.00		1

XENCO Laboratories
Florida Testing Services, LLC

Certificate of Analytical Results 459815

AMEC E&I, Inc., Atlanta, GA

139 Brampton Road

Sample Id: **GP-28-1'** Matrix: Soil Date Received: 03.21.13 13.06
Lab Sample Id: **459815-003** Date Collected: 03.19.13 10.40

Analytical Method: **Metals, Total by SW846 6010C** Prep Method: SW3050B
Tech: ABA % Moisture: 14.84
Analyst: 4150 Date Prep: 03.25.13 09.30 Basis: Dry Weight
Seq Number: 910078

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Lead	7439-92-1	**71.0**	5.54	mg/kg	03.28.13 14.48		1

Analytical Method: **Percent Moisture**
Tech: BLF % Moisture:
Analyst: NIV Basis: Wet Weight
Seq Number: 909917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**14.8**	0.100	%	03.26.13 13.00		1

XENCO Laboratories
Florida Testing Services, LLC

Certificate of Analytical Results 459815

AMEC E&I, Inc., Atlanta, GA

139 Brampton Road

Sample Id: **GP-29-1'** Matrix: Soil Date Received: 03.21.13 13.06
Lab Sample Id: **459815-005** Date Collected: 03.19.13 11.05

Analytical Method: **Metals, Total by SW846 6010C** Prep Method: SW3050B
Tech: ABA % Moisture: 10.59
Analyst: 4150 Date Prep: 03.25.13 09.30 Basis: Dry Weight
Seq Number: 910078

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Lead	7439-92-1	**41.6**	4.95	mg/kg	03.28.13 14.49		1

Analytical Method: **Percent Moisture**
Tech: BLF % Moisture:
Analyst: NIV Basis: Wet Weight
Seq Number: 909917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**10.6**	0.100	%	03.26.13 13.00		1

XENCO Laboratories
Florida Testing Services, LLC

Certificate of Analytical Results 459815

AMEC E&I, Inc., Atlanta, GA

139 Brampton Road

Sample Id: **GP-30-1'** Matrix: Soil Date Received: 03.21.13 13.06
Lab Sample Id: **459815-007** Date Collected: 03.19.13 12.02

Analytical Method: **Metals, Total by SW846 6010C** Prep Method: SW3050B
Tech: ABA % Moisture: 8.99
Analyst: 4150 Date Prep: 03.25.13 09.30 Basis: Dry Weight
Seq Number: 910078

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Lead	7439-92-1	BRL	5.23	mg/kg	03.28.13 14.51	U	1

Analytical Method: **Percent Moisture**
Tech: BLF % Moisture:
Analyst: NIV Basis: Wet Weight
Seq Number: 909917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**8.99**	0.100	%	03.26.13 13.00		1

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Sample Id: **GP-31-1'** Matrix: Soil Date Received: 03.21.13 13.06
Lab Sample Id: **459815-009** Date Collected: 03.19.13 13.55

Analytical Method: **Metals, Total by SW846 6010C** Prep Method: SW3050B
Tech: ABA % Moisture: 15.36
Analyst: 4150 Date Prep: 03.25.13 09.30 Basis: Dry Weight
Seq Number: 910078

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Lead	7439-92-1	**6.86**	5.23	mg/kg	03.28.13 14.53		1

Analytical Method: **Percent Moisture**
Tech: BLF % Moisture:
Analyst: NIV Basis: Wet Weight
Seq Number: 909917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**15.4**	0.100	%	03.26.13 13.00		1

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Sample Id: **GP-32-1-2'** Matrix: Soil Date Received: 03.21.13 13.06
Lab Sample Id: **459815-011** Date Collected: 03.19.13 14.33

Analytical Method: **Percent Moisture**
Tech: BLF % Moisture:
Analyst: NIV Basis: Wet Weight
Seq Number: 909917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**12.7**	0.100	%	03.26.13 13.00		1

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Sample Id: **GP-32-1-2'** Matrix: Soil Date Received: 03.21.13 13.06
Lab Sample Id: **459815-011** Date Collected: 03.19.13 14.33

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035
Tech: MWE % Moisture: 12.67
Analyst: MLA Date Prep: 03.25.13 15.49 Basis: Dry Weight
Seq Number: 909932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
1,1,2-Trichloroethane	79-00-5	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
1,1-Dichloroethane	75-34-3	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
1,1-Dichloroethene	75-35-4	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
1,2-Dichlorobenzene	95-50-1	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
1,2-Dichloroethane	107-06-2	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
1,2-Dichloropropane	78-87-5	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
1,3-Dichlorobenzene	541-73-1	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
1,4-Dichlorobenzene	106-46-7	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
1,4-Dioxane	123-91-1	BRL	0.0984	mg/kg	03.25.13 09.11	U	1
2-Butanone (MEK)	78-93-3	BRL	0.0492	mg/kg	03.25.13 09.11	U	1
2-Hexanone	591-78-6	BRL	0.00984	mg/kg	03.25.13 09.11	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	0.00984	mg/kg	03.25.13 09.11	U	1
Acetone	67-64-1	**0.0107**	0.00984	mg/kg	03.25.13 09.11		1
Benzene	71-43-2	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
Bromodichloromethane	75-27-4	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
Bromoform	75-25-2	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
Bromomethane	74-83-9	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
Carbon disulfide	75-15-0	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
Carbon tetrachloride	56-23-5	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
Chlorobenzene	108-90-7	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
Chloroethane	75-00-3	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
Chloroform	67-66-3	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
Chloromethane	74-87-3	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
Cyclohexane	110-82-7	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
Dibromochloromethane	124-48-1	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
Dichlorodifluoromethane	75-71-8	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
Ethylbenzene	100-41-4	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
Isopropylbenzene	98-82-8	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
m,p-Xylenes	179601-23-1	BRL	0.00984	mg/kg	03.25.13 09.11	U	1
Methyl acetate	79-20-9	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
Methyl tert-butyl ether	1634-04-4	BRL	0.00984	mg/kg	03.25.13 09.11	U	1
Methylcyclohexane	108-87-2	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
Methylene chloride	75-09-2	BRL	0.00492	mg/kg	03.25.13 09.11	U	1

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Sample Id: **GP-32-1-2'** Matrix: Soil Date Received: 03.21.13 13.06
Lab Sample Id: **459815-011** Date Collected: 03.19.13 14.33

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035
Tech: MWE % Moisture: 12.67
Analyst: MLA Date Prep: 03.25.13 15.49 Basis: Dry Weight
Seq Number: 909932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
o-Xylene	95-47-6	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
Styrene	100-42-5	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
Tetrachloroethene	127-18-4	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
Toluene	108-88-3	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
Trichloroethene	79-01-6	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
Trichlorofluoromethane	75-69-4	BRL	0.00492	mg/kg	03.25.13 09.11	U	1
Vinyl chloride	75-01-4	BRL	0.00492	mg/kg	03.25.13 09.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	97	%	50-150	03.25.13 09.11	
4-Bromofluorobenzene	460-00-4	108	%	57-158	03.25.13 09.11	
Toluene-D8	2037-26-5	99	%	50-150	03.25.13 09.11	

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Sample Id: **GP-33-1'** Matrix: Soil Date Received: 03.21.13 13.06
Lab Sample Id: **459815-013** Date Collected: 03.19.13 15.30

Analytical Method: **Metals, Total by SW846 6010C** Prep Method: SW3050B
Tech: ABA % Moisture: 13.44
Analyst: 4150 Date Prep: 03.25.13 09.30 Basis: Dry Weight
Seq Number: 910078

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Lead	7439-92-1	**6.49**	5.72	mg/kg	03.28.13 14.54		1

Analytical Method: **Percent Moisture**
Tech: BLF % Moisture:
Analyst: NIV Basis: Wet Weight
Seq Number: 909917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**13.4**	0.100	%	03.26.13 13.00		1

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Sample Id: **GP-34-2-3'** Matrix: Soil Date Received: 03.21.13 13.06
Lab Sample Id: **459815-015** Date Collected: 03.19.13 16.00

Analytical Method: **Percent Moisture**
Tech: BLF % Moisture:
Analyst: NIV Basis: Wet Weight
Seq Number: 909917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**15.5**	0.100	%	03.26.13 13.00		1

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Sample Id: **GP-34-2-3'** Matrix: Soil Date Received: 03.21.13 13.06
Lab Sample Id: **459815-015** Date Collected: 03.19.13 16.00

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035
Tech: MWE % Moisture: 15.45
Analyst: MLA Date Prep: 03.25.13 15.49 Basis: Dry Weight
Seq Number: 909932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
1,1,2-Trichloroethane	79-00-5	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
1,1-Dichloroethane	75-34-3	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
1,1-Dichloroethene	75-35-4	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
1,2-Dichlorobenzene	95-50-1	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
1,2-Dichloroethane	107-06-2	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
1,2-Dichloropropane	78-87-5	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
1,3-Dichlorobenzene	541-73-1	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
1,4-Dichlorobenzene	106-46-7	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
1,4-Dioxane	123-91-1	BRL	0.102	mg/kg	03.25.13 13.42	U	1
2-Butanone (MEK)	78-93-3	BRL	0.0510	mg/kg	03.25.13 13.42	U	1
2-Hexanone	591-78-6	BRL	0.0102	mg/kg	03.25.13 13.42	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	0.0102	mg/kg	03.25.13 13.42	U	1
Acetone	67-64-1	**0.0113**	0.0102	mg/kg	03.25.13 13.42		1
Benzene	71-43-2	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
Bromodichloromethane	75-27-4	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
Bromoform	75-25-2	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
Bromomethane	74-83-9	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
Carbon disulfide	75-15-0	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
Carbon tetrachloride	56-23-5	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
Chlorobenzene	108-90-7	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
Chloroethane	75-00-3	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
Chloroform	67-66-3	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
Chloromethane	74-87-3	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
Cyclohexane	110-82-7	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
Dibromochloromethane	124-48-1	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
Dichlorodifluoromethane	75-71-8	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
Ethylbenzene	100-41-4	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
Isopropylbenzene	98-82-8	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
m,p-Xylenes	179601-23-1	BRL	0.0102	mg/kg	03.25.13 13.42	U	1
Methyl acetate	79-20-9	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
Methyl tert-butyl ether	1634-04-4	BRL	0.0102	mg/kg	03.25.13 13.42	U	1
Methylcyclohexane	108-87-2	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
Methylene chloride	75-09-2	BRL	0.00510	mg/kg	03.25.13 13.42	U	1

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Sample Id: **GP-34-2-3'** Matrix: Soil Date Received: 03.21.13 13.06
Lab Sample Id: **459815-015** Date Collected: 03.19.13 16.00

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035
Tech: MWE % Moisture: 15.45
Analyst: MLA Date Prep: 03.25.13 15.49 Basis: Dry Weight
Seq Number: 909932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
o-Xylene	95-47-6	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
Styrene	100-42-5	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
Tetrachloroethene	127-18-4	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
Toluene	108-88-3	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
Trichloroethene	79-01-6	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
Trichlorofluoromethane	75-69-4	BRL	0.00510	mg/kg	03.25.13 13.42	U	1
Vinyl chloride	75-01-4	BRL	0.00510	mg/kg	03.25.13 13.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	95	%	50-150	03.25.13 13.42	
4-Bromofluorobenzene	460-00-4	104	%	57-158	03.25.13 13.42	
Toluene-D8	2037-26-5	103	%	50-150	03.25.13 13.42	

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Sample Id: **GP-35-2-3'** Matrix: Soil Date Received: 03.21.13 13.06

Lab Sample Id: **459815-017** Date Collected: 03.19.13 16.29

Analytical Method: **Percent Moisture**

Tech: BLF % Moisture:

Analyst: NIV Basis: Wet Weight

Seq Number: 909917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**19.0**	0.100	%	03.26.13 13.00		1

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Sample Id: **GP-35-2-3'** Matrix: Soil Date Received: 03.21.13 13.06
Lab Sample Id: **459815-017** Date Collected: 03.19.13 16.29

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035
Tech: MWE % Moisture: 18.96
Analyst: MLA Date Prep: 03.25.13 15.49 Basis: Dry Weight
Seq Number: 909932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
1,1,2-Trichloroethane	79-00-5	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
1,1-Dichloroethane	75-34-3	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
1,1-Dichloroethene	75-35-4	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
1,2-Dichlorobenzene	95-50-1	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
1,2-Dichloroethane	107-06-2	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
1,2-Dichloropropane	78-87-5	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
1,3-Dichlorobenzene	541-73-1	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
1,4-Dichlorobenzene	106-46-7	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
1,4-Dioxane	123-91-1	BRL	0.104	mg/kg	03.25.13 10.58	U	1
2-Butanone (MEK)	78-93-3	BRL	0.0519	mg/kg	03.25.13 10.58	U	1
2-Hexanone	591-78-6	BRL	0.0104	mg/kg	03.25.13 10.58	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	0.0104	mg/kg	03.25.13 10.58	U	1
Acetone	67-64-1	**0.0105**	0.0104	mg/kg	03.25.13 10.58		1
Benzene	71-43-2	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
Bromodichloromethane	75-27-4	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
Bromoform	75-25-2	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
Bromomethane	74-83-9	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
Carbon disulfide	75-15-0	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
Carbon tetrachloride	56-23-5	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
Chlorobenzene	108-90-7	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
Chloroethane	75-00-3	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
Chloroform	67-66-3	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
Chloromethane	74-87-3	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
Cyclohexane	110-82-7	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
Dibromochloromethane	124-48-1	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
Dichlorodifluoromethane	75-71-8	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
Ethylbenzene	100-41-4	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
Isopropylbenzene	98-82-8	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
m,p-Xylenes	179601-23-1	BRL	0.0104	mg/kg	03.25.13 10.58	U	1
Methyl acetate	79-20-9	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
Methyl tert-butyl ether	1634-04-4	BRL	0.0104	mg/kg	03.25.13 10.58	U	1
Methylcyclohexane	108-87-2	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
Methylene chloride	75-09-2	BRL	0.00519	mg/kg	03.25.13 10.58	U	1

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Sample Id: **GP-35-2-3'** Matrix: Soil Date Received: 03.21.13 13.06
Lab Sample Id: **459815-017** Date Collected: 03.19.13 16.29

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035
Tech: MWE % Moisture: 18.96
Analyst: MLA Date Prep: 03.25.13 15.49 Basis: Dry Weight
Seq Number: 909932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
o-Xylene	95-47-6	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
Styrene	100-42-5	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
Tetrachloroethene	127-18-4	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
Toluene	108-88-3	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
Trichloroethene	79-01-6	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
Trichlorofluoromethane	75-69-4	BRL	0.00519	mg/kg	03.25.13 10.58	U	1
Vinyl chloride	75-01-4	BRL	0.00519	mg/kg	03.25.13 10.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	105	%	50-150	03.25.13 10.58	
4-Bromofluorobenzene	460-00-4	96	%	57-158	03.25.13 10.58	
Toluene-D8	2037-26-5	93	%	50-150	03.25.13 10.58	

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Sample Id: **GP-36-2-3'** Matrix: Soil Date Received: 03.21.13 13.06

Lab Sample Id: **459815-019** Date Collected: 03.19.13 17.04

Analytical Method: **Percent Moisture**

Tech: BLF % Moisture:

Analyst: NIV Basis: Wet Weight

Seq Number: 909917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**15.9**	0.100	%	03.26.13 13.00		1

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Sample Id: **GP-36-2-3'** Matrix: Soil Date Received: 03.21.13 13.06
Lab Sample Id: **459815-019** Date Collected: 03.19.13 17.04

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035
Tech: MWE % Moisture: 15.91
Analyst: MLA Date Prep: 03.25.13 15.49 Basis: Dry Weight
Seq Number: 909932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
1,1,2-Trichloroethane	79-00-5	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
1,1-Dichloroethane	75-34-3	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
1,1-Dichloroethene	75-35-4	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
1,2-Dichlorobenzene	95-50-1	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
1,2-Dichloroethane	107-06-2	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
1,2-Dichloropropane	78-87-5	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
1,3-Dichlorobenzene	541-73-1	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
1,4-Dichlorobenzene	106-46-7	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
1,4-Dioxane	123-91-1	BRL	0.113	mg/kg	03.25.13 11.56	U	1
2-Butanone (MEK)	78-93-3	BRL	0.0566	mg/kg	03.25.13 11.56	U	1
2-Hexanone	591-78-6	BRL	0.0113	mg/kg	03.25.13 11.56	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	0.0113	mg/kg	03.25.13 11.56	U	1
Acetone	67-64-1	BRL	0.0113	mg/kg	03.25.13 11.56	U	1
Benzene	71-43-2	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
Bromodichloromethane	75-27-4	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
Bromoform	75-25-2	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
Bromomethane	74-83-9	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
Carbon disulfide	75-15-0	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
Carbon tetrachloride	56-23-5	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
Chlorobenzene	108-90-7	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
Chloroethane	75-00-3	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
Chloroform	67-66-3	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
Chloromethane	74-87-3	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
Cyclohexane	110-82-7	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
Dibromochloromethane	124-48-1	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
Dichlorodifluoromethane	75-71-8	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
Ethylbenzene	100-41-4	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
Isopropylbenzene	98-82-8	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
m,p-Xylenes	179601-23-1	BRL	0.0113	mg/kg	03.25.13 11.56	U	1
Methyl acetate	79-20-9	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
Methyl tert-butyl ether	1634-04-4	BRL	0.0113	mg/kg	03.25.13 11.56	U	1
Methylcyclohexane	108-87-2	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
Methylene chloride	75-09-2	BRL	0.00566	mg/kg	03.25.13 11.56	U	1

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Sample Id: **GP-36-2-3'** Matrix: Soil Date Received: 03.21.13 13.06
Lab Sample Id: **459815-019** Date Collected: 03.19.13 17.04

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035
Tech: MWE % Moisture: 15.91
Analyst: MLA Date Prep: 03.25.13 15.49 Basis: Dry Weight
Seq Number: 909932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
o-Xylene	95-47-6	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
Styrene	100-42-5	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
Tetrachloroethene	127-18-4	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
Toluene	108-88-3	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
Trichloroethene	79-01-6	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
Trichlorofluoromethane	75-69-4	BRL	0.00566	mg/kg	03.25.13 11.56	U	1
Vinyl chloride	75-01-4	BRL	0.00566	mg/kg	03.25.13 11.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	100	%	50-150	03.25.13 11.56	
4-Bromofluorobenzene	460-00-4	106	%	57-158	03.25.13 11.56	
Toluene-D8	2037-26-5	98	%	50-150	03.25.13 11.56	

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Sample Id: **GP-37-1'** Matrix: Soil Date Received: 03.21.13 13.06
Lab Sample Id: **459815-021** Date Collected: 03.19.13 17.15

Analytical Method: **Metals, Total by SW846 6010C** Prep Method: SW3050B
Tech: ABA % Moisture: 13.61
Analyst: 4150 Date Prep: 03.25.13 09.30 Basis: Dry Weight
Seq Number: 910078

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Lead	7439-92-1	**10.7**	4.95	mg/kg	03.28.13 15.00		1

Analytical Method: **Percent Moisture**
Tech: BLF % Moisture:
Analyst: NIV Basis: Wet Weight
Seq Number: 909917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**13.6**	0.100	%	03.26.13 13.00		1

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Sample Id: **GP-38-1'** Matrix: Soil Date Received: 03.21.13 13.06
Lab Sample Id: **459815-023** Date Collected: 03.19.13 17.45

Analytical Method: **Metals, Total by SW846 6010C** Prep Method: SW3050B
Tech: ABA % Moisture: 9.59
Analyst: 4150 Date Prep: 03.25.13 09.30 Basis: Dry Weight
Seq Number: 910078

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Lead	7439-92-1	**7.90**	5.48	mg/kg	03.28.13 15.02		1

Analytical Method: **Percent Moisture**
Tech: BLF % Moisture:
Analyst: NIV Basis: Wet Weight
Seq Number: 909917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**9.59**	0.100	%	03.26.13 13.00		1

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Sample Id: **DUP-1** Matrix: Soil Date Received: 03.21.13 13.06
Lab Sample Id: **459815-025** Date Collected: 03.19.13 17.45

Analytical Method: **Metals, Total by SW846 6010C** Prep Method: SW3050B
Tech: ABA % Moisture: 7.24
Analyst: 4150 Date Prep: 03.25.13 09.30 Basis: Dry Weight
Seq Number: 910078

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Lead	7439-92-1	**8.30**	4.65	mg/kg	03.28.13 15.04		1

Analytical Method: **Percent Moisture**
Tech: BLF % Moisture:
Analyst: NIV Basis: Wet Weight
Seq Number: 909919

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**7.24**	0.100	%	03.26.13 13.00		1

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Sample Id: **DUP-2** Matrix: Soil Date Received: 03.21.13 13.06
Lab Sample Id: **459815-026** Date Collected: 03.19.13 16.29

Analytical Method: **Percent Moisture**
Tech: BLF % Moisture:
Analyst: NIV Basis: Wet Weight
Seq Number: 909917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**18.8**	0.100	%	03.26.13 13.00		1

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Sample Id: **DUP-2** Matrix: Soil Date Received: 03.21.13 13.06
Lab Sample Id: **459815-026** Date Collected: 03.19.13 16.29

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035
Tech: MWE % Moisture: 18.81
Analyst: MLA Date Prep: 03.25.13 15.49 Basis: Dry Weight
Seq Number: 909932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
1,1,2-Trichloroethane	79-00-5	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
1,1-Dichloroethane	75-34-3	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
1,1-Dichloroethene	75-35-4	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
1,2-Dichlorobenzene	95-50-1	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
1,2-Dichloroethane	107-06-2	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
1,2-Dichloropropane	78-87-5	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
1,3-Dichlorobenzene	541-73-1	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
1,4-Dichlorobenzene	106-46-7	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
1,4-Dioxane	123-91-1	BRL	0.112	mg/kg	03.25.13 12.47	U	1
2-Butanone (MEK)	78-93-3	BRL	0.0558	mg/kg	03.25.13 12.47	U	1
2-Hexanone	591-78-6	BRL	0.0112	mg/kg	03.25.13 12.47	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	0.0112	mg/kg	03.25.13 12.47	U	1
Acetone	67-64-1	**0.0118**	0.0112	mg/kg	03.25.13 12.47		1
Benzene	71-43-2	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
Bromodichloromethane	75-27-4	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
Bromoform	75-25-2	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
Bromomethane	74-83-9	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
Carbon disulfide	75-15-0	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
Carbon tetrachloride	56-23-5	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
Chlorobenzene	108-90-7	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
Chloroethane	75-00-3	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
Chloroform	67-66-3	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
Chloromethane	74-87-3	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
Cyclohexane	110-82-7	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
Dibromochloromethane	124-48-1	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
Dichlorodifluoromethane	75-71-8	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
Ethylbenzene	100-41-4	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
Isopropylbenzene	98-82-8	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
m,p-Xylenes	179601-23-1	BRL	0.0112	mg/kg	03.25.13 12.47	U	1
Methyl acetate	79-20-9	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
Methyl tert-butyl ether	1634-04-4	BRL	0.0112	mg/kg	03.25.13 12.47	U	1
Methylcyclohexane	108-87-2	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
Methylene chloride	75-09-2	BRL	0.00558	mg/kg	03.25.13 12.47	U	1

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Sample Id: **DUP-2** Matrix: Soil Date Received: 03.21.13 13.06
Lab Sample Id: **459815-026** Date Collected: 03.19.13 16.29

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035
Tech: MWE % Moisture: 18.81
Analyst: MLA Date Prep: 03.25.13 15.49 Basis: Dry Weight
Seq Number: 909932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
o-Xylene	95-47-6	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
Styrene	100-42-5	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
Tetrachloroethene	127-18-4	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
Toluene	108-88-3	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
Trichloroethene	79-01-6	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
Trichlorofluoromethane	75-69-4	BRL	0.00558	mg/kg	03.25.13 12.47	U	1
Vinyl chloride	75-01-4	BRL	0.00558	mg/kg	03.25.13 12.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	103	%	50-150	03.25.13 12.47	
4-Bromofluorobenzene	460-00-4	97	%	57-158	03.25.13 12.47	
Toluene-D8	2037-26-5	97	%	50-150	03.25.13 12.47	

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Sample Id: **GW-9** Matrix: Ground Water Date Received: 03.21.13 13.06
Lab Sample Id: **459815-027** Date Collected: 03.20.13 10.50

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MLA Date Prep: 03.26.13 08.30
Seq Number: 909969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	1.00	ug/L	03.26.13 13.25	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	1.00	ug/L	03.26.13 13.25	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	BRL	1.00	ug/L	03.26.13 13.25	U	1
1,1,2-Trichloroethane	79-00-5	BRL	1.00	ug/L	03.26.13 13.25	U	1
1,1-Dichloroethane	75-34-3	**6.14**	1.00	ug/L	03.26.13 13.25		1
1,1-Dichloroethene	75-35-4	**15.0**	1.00	ug/L	03.26.13 13.25		1
1,2,4-Trichlorobenzene	120-82-1	BRL	1.00	ug/L	03.26.13 13.25	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	1.00	ug/L	03.26.13 13.25	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	1.00	ug/L	03.26.13 13.25	U	1
1,2-Dichlorobenzene	95-50-1	BRL	1.00	ug/L	03.26.13 13.25	U	1
1,2-Dichloroethane	107-06-2	BRL	1.00	ug/L	03.26.13 13.25	U	1
1,2-Dichloropropane	78-87-5	BRL	1.00	ug/L	03.26.13 13.25	U	1
1,3-Dichlorobenzene	541-73-1	BRL	1.00	ug/L	03.26.13 13.25	U	1
1,4-Dichlorobenzene	106-46-7	BRL	1.00	ug/L	03.26.13 13.25	U	1
1,4-Dioxane	123-91-1	BRL	20.0	ug/L	03.26.13 13.25	U	1
2-Butanone (MEK)	78-93-3	BRL	2.00	ug/L	03.26.13 13.25	U	1
2-Hexanone	591-78-6	BRL	2.00	ug/L	03.26.13 13.25	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	2.00	ug/L	03.26.13 13.25	U	1
Acetone	67-64-1	BRL	2.00	ug/L	03.26.13 13.25	U	1
Benzene	71-43-2	**1.22**	1.00	ug/L	03.26.13 13.25		1
Bromodichloromethane	75-27-4	BRL	1.00	ug/L	03.26.13 13.25	U	1
Bromoform	75-25-2	BRL	1.00	ug/L	03.26.13 13.25	U	1
Bromomethane	74-83-9	BRL	1.00	ug/L	03.26.13 13.25	U	1
Carbon disulfide	75-15-0	BRL	1.00	ug/L	03.26.13 13.25	U	1
Carbon tetrachloride	56-23-5	BRL	1.00	ug/L	03.26.13 13.25	U	1
Chlorobenzene	108-90-7	BRL	1.00	ug/L	03.26.13 13.25	U	1
Chloroethane	75-00-3	BRL	1.00	ug/L	03.26.13 13.25	U	1
Chloroform	67-66-3	BRL	1.00	ug/L	03.26.13 13.25	U	1
Chloromethane	74-87-3	BRL	1.00	ug/L	03.26.13 13.25	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	1.00	ug/L	03.26.13 13.25	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	1.00	ug/L	03.26.13 13.25	U	1
Cyclohexane	110-82-7	BRL	1.00	ug/L	03.26.13 13.25	U	1
Dibromochloromethane	124-48-1	BRL	1.00	ug/L	03.26.13 13.25	U	1
Dichlorodifluoromethane	75-71-8	BRL	1.00	ug/L	03.26.13 13.25	U	1
Ethylbenzene	100-41-4	BRL	1.00	ug/L	03.26.13 13.25	U	1
Isopropylbenzene	98-82-8	BRL	1.00	ug/L	03.26.13 13.25	U	1
m,p-Xylenes	179601-23-1	BRL	2.00	ug/L	03.26.13 13.25	U	1
Methyl acetate	79-20-9	BRL	2.00	ug/L	03.26.13 13.25	U	1
Methyl tert-butyl ether	1634-04-4	BRL	2.00	ug/L	03.26.13 13.25	U	1
Methylcyclohexane	108-87-2	BRL	1.00	ug/L	03.26.13 13.25	U	1
Methylene chloride	75-09-2	BRL	1.00	ug/L	03.26.13 13.25	U	1

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AMEC E&I, Inc., Atlanta, GA

139 Brampton Road

Sample Id: **GW-9** Matrix: Ground Water Date Received: 03.21.13 13.06
Lab Sample Id: **459815-027** Date Collected: 03.20.13 10.50

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MLA Date Prep: 03.26.13 08.30
Seq Number: 909969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
o-Xylene	95-47-6	BRL	1.00	ug/L	03.26.13 13.25	U	1
Styrene	100-42-5	BRL	1.00	ug/L	03.26.13 13.25	U	1
Tetrachloroethene	127-18-4	**5.51**	1.00	ug/L	03.26.13 13.25		1
Toluene	108-88-3	BRL	1.00	ug/L	03.26.13 13.25	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	1.00	ug/L	03.26.13 13.25	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	1.00	ug/L	03.26.13 13.25	U	1
Trichloroethene	79-01-6	**1.65**	1.00	ug/L	03.26.13 13.25		1
Trichlorofluoromethane	75-69-4	BRL	1.00	ug/L	03.26.13 13.25	U	1
Vinyl chloride	75-01-4	BRL	1.00	ug/L	03.26.13 13.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	104	%	53-159	03.26.13 13.25	
4-Bromofluorobenzene	460-00-4	106	%	30-186	03.26.13 13.25	
Toluene-D8	2037-26-5	101	%	70-130	03.26.13 13.25	

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AMEC E&I, Inc., Atlanta, GA

139 Brampton Road

Sample Id: **EW-3** Matrix: Ground Water Date Received: 03.21.13 13.06
Lab Sample Id: **459815-028** Date Collected: 03.20.13 12.06

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MLA Date Prep: 03.26.13 08.30
Seq Number: 909969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	1.00	ug/L	03.26.13 13.52	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	1.00	ug/L	03.26.13 13.52	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	BRL	1.00	ug/L	03.26.13 13.52	U	1
1,1,2-Trichloroethane	79-00-5	BRL	1.00	ug/L	03.26.13 13.52	U	1
1,1-Dichloroethane	75-34-3	BRL	1.00	ug/L	03.26.13 13.52	U	1
1,1-Dichloroethene	75-35-4	BRL	1.00	ug/L	03.26.13 13.52	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	1.00	ug/L	03.26.13 13.52	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	1.00	ug/L	03.26.13 13.52	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	1.00	ug/L	03.26.13 13.52	U	1
1,2-Dichlorobenzene	95-50-1	BRL	1.00	ug/L	03.26.13 13.52	U	1
1,2-Dichloroethane	107-06-2	BRL	1.00	ug/L	03.26.13 13.52	U	1
1,2-Dichloropropane	78-87-5	BRL	1.00	ug/L	03.26.13 13.52	U	1
1,3-Dichlorobenzene	541-73-1	BRL	1.00	ug/L	03.26.13 13.52	U	1
1,4-Dichlorobenzene	106-46-7	BRL	1.00	ug/L	03.26.13 13.52	U	1
1,4-Dioxane	123-91-1	BRL	20.0	ug/L	03.26.13 13.52	U	1
2-Butanone (MEK)	78-93-3	BRL	2.00	ug/L	03.26.13 13.52	U	1
2-Hexanone	591-78-6	BRL	2.00	ug/L	03.26.13 13.52	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	2.00	ug/L	03.26.13 13.52	U	1
Acetone	67-64-1	BRL	2.00	ug/L	03.26.13 13.52	U	1
Benzene	71-43-2	BRL	1.00	ug/L	03.26.13 13.52	U	1
Bromodichloromethane	75-27-4	BRL	1.00	ug/L	03.26.13 13.52	U	1
Bromoform	75-25-2	BRL	1.00	ug/L	03.26.13 13.52	U	1
Bromomethane	74-83-9	BRL	1.00	ug/L	03.26.13 13.52	U	1
Carbon disulfide	75-15-0	BRL	1.00	ug/L	03.26.13 13.52	U	1
Carbon tetrachloride	56-23-5	BRL	1.00	ug/L	03.26.13 13.52	U	1
Chlorobenzene	108-90-7	BRL	1.00	ug/L	03.26.13 13.52	U	1
Chloroethane	75-00-3	BRL	1.00	ug/L	03.26.13 13.52	U	1
Chloroform	67-66-3	BRL	1.00	ug/L	03.26.13 13.52	U	1
Chloromethane	74-87-3	BRL	1.00	ug/L	03.26.13 13.52	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	1.00	ug/L	03.26.13 13.52	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	1.00	ug/L	03.26.13 13.52	U	1
Cyclohexane	110-82-7	BRL	1.00	ug/L	03.26.13 13.52	U	1
Dibromochloromethane	124-48-1	BRL	1.00	ug/L	03.26.13 13.52	U	1
Dichlorodifluoromethane	75-71-8	BRL	1.00	ug/L	03.26.13 13.52	U	1
Ethylbenzene	100-41-4	BRL	1.00	ug/L	03.26.13 13.52	U	1
Isopropylbenzene	98-82-8	BRL	1.00	ug/L	03.26.13 13.52	U	1
m,p-Xylenes	179601-23-1	BRL	2.00	ug/L	03.26.13 13.52	U	1
Methyl acetate	79-20-9	BRL	2.00	ug/L	03.26.13 13.52	U	1
Methyl tert-butyl ether	1634-04-4	BRL	2.00	ug/L	03.26.13 13.52	U	1
Methylcyclohexane	108-87-2	BRL	1.00	ug/L	03.26.13 13.52	U	1
Methylene chloride	75-09-2	BRL	1.00	ug/L	03.26.13 13.52	U	1

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AMEC E&I, Inc., Atlanta, GA

139 Brampton Road

Sample Id: **EW-3** Matrix: Ground Water Date Received: 03.21.13 13.06
Lab Sample Id: **459815-028** Date Collected: 03.20.13 12.06

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MLA Date Prep: 03.26.13 08.30
Seq Number: 909969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
o-Xylene	95-47-6	BRL	1.00	ug/L	03.26.13 13.52	U	1
Styrene	100-42-5	BRL	1.00	ug/L	03.26.13 13.52	U	1
Tetrachloroethene	127-18-4	BRL	1.00	ug/L	03.26.13 13.52	U	1
Toluene	108-88-3	BRL	1.00	ug/L	03.26.13 13.52	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	1.00	ug/L	03.26.13 13.52	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	1.00	ug/L	03.26.13 13.52	U	1
Trichloroethene	79-01-6	BRL	1.00	ug/L	03.26.13 13.52	U	1
Trichlorofluoromethane	75-69-4	BRL	1.00	ug/L	03.26.13 13.52	U	1
Vinyl chloride	75-01-4	BRL	1.00	ug/L	03.26.13 13.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	106	%	53-159	03.26.13 13.52	
4-Bromofluorobenzene	460-00-4	103	%	30-186	03.26.13 13.52	
Toluene-D8	2037-26-5	92	%	70-130	03.26.13 13.52	

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Florida Testing Services, LLC

Certificate of Analytical Results 459815

AMEC E&I, Inc., Atlanta, GA

139 Brampton Road

Sample Id: **Trip Blank** Matrix: Water Date Received: 03.21.13 13.06
Lab Sample Id: **459815-029** Date Collected: 03.20.13 00.00

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MLA Date Prep: 03.26.13 08.30
Seq Number: 909969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	1.00	ug/L	03.26.13 12.31	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	1.00	ug/L	03.26.13 12.31	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	BRL	1.00	ug/L	03.26.13 12.31	U	1
1,1,2-Trichloroethane	79-00-5	BRL	1.00	ug/L	03.26.13 12.31	U	1
1,1-Dichloroethane	75-34-3	BRL	1.00	ug/L	03.26.13 12.31	U	1
1,1-Dichloroethene	75-35-4	BRL	1.00	ug/L	03.26.13 12.31	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	1.00	ug/L	03.26.13 12.31	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	1.00	ug/L	03.26.13 12.31	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	1.00	ug/L	03.26.13 12.31	U	1
1,2-Dichlorobenzene	95-50-1	BRL	1.00	ug/L	03.26.13 12.31	U	1
1,2-Dichloroethane	107-06-2	BRL	1.00	ug/L	03.26.13 12.31	U	1
1,2-Dichloropropane	78-87-5	BRL	1.00	ug/L	03.26.13 12.31	U	1
1,3-Dichlorobenzene	541-73-1	BRL	1.00	ug/L	03.26.13 12.31	U	1
1,4-Dichlorobenzene	106-46-7	BRL	1.00	ug/L	03.26.13 12.31	U	1
1,4-Dioxane	123-91-1	BRL	20.0	ug/L	03.26.13 12.31	U	1
2-Butanone (MEK)	78-93-3	BRL	2.00	ug/L	03.26.13 12.31	U	1
2-Hexanone	591-78-6	BRL	2.00	ug/L	03.26.13 12.31	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	2.00	ug/L	03.26.13 12.31	U	1
Acetone	67-64-1	BRL	2.00	ug/L	03.26.13 12.31	U	1
Benzene	71-43-2	BRL	1.00	ug/L	03.26.13 12.31	U	1
Bromodichloromethane	75-27-4	BRL	1.00	ug/L	03.26.13 12.31	U	1
Bromoform	75-25-2	BRL	1.00	ug/L	03.26.13 12.31	U	1
Bromomethane	74-83-9	BRL	1.00	ug/L	03.26.13 12.31	U	1
Carbon disulfide	75-15-0	BRL	1.00	ug/L	03.26.13 12.31	U	1
Carbon tetrachloride	56-23-5	BRL	1.00	ug/L	03.26.13 12.31	U	1
Chlorobenzene	108-90-7	BRL	1.00	ug/L	03.26.13 12.31	U	1
Chloroethane	75-00-3	BRL	1.00	ug/L	03.26.13 12.31	U	1
Chloroform	67-66-3	BRL	1.00	ug/L	03.26.13 12.31	U	1
Chloromethane	74-87-3	BRL	1.00	ug/L	03.26.13 12.31	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	1.00	ug/L	03.26.13 12.31	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	1.00	ug/L	03.26.13 12.31	U	1
Cyclohexane	110-82-7	BRL	1.00	ug/L	03.26.13 12.31	U	1
Dibromochloromethane	124-48-1	BRL	1.00	ug/L	03.26.13 12.31	U	1
Dichlorodifluoromethane	75-71-8	BRL	1.00	ug/L	03.26.13 12.31	U	1
Ethylbenzene	100-41-4	BRL	1.00	ug/L	03.26.13 12.31	U	1
Isopropylbenzene	98-82-8	BRL	1.00	ug/L	03.26.13 12.31	U	1
m,p-Xylenes	179601-23-1	BRL	2.00	ug/L	03.26.13 12.31	U	1
Methyl acetate	79-20-9	BRL	2.00	ug/L	03.26.13 12.31	U	1
Methyl tert-butyl ether	1634-04-4	BRL	2.00	ug/L	03.26.13 12.31	U	1
Methylcyclohexane	108-87-2	BRL	1.00	ug/L	03.26.13 12.31	U	1
Methylene chloride	75-09-2	BRL	1.00	ug/L	03.26.13 12.31	U	1

XENCO Laboratories
Florida Testing Services, LLC

Certificate of Analytical Results 459815

AMEC E&I, Inc., Atlanta, GA

139 Brampton Road

Sample Id: **Trip Blank** Matrix: Water Date Received: 03.21.13 13.06
Lab Sample Id: **459815-029** Date Collected: 03.20.13 00.00

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MLA Date Prep: 03.26.13 08.30
Seq Number: 909969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
o-Xylene	95-47-6	BRL	1.00	ug/L	03.26.13 12.31	U	1
Styrene	100-42-5	BRL	1.00	ug/L	03.26.13 12.31	U	1
Tetrachloroethene	127-18-4	BRL	1.00	ug/L	03.26.13 12.31	U	1
Toluene	108-88-3	BRL	1.00	ug/L	03.26.13 12.31	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	1.00	ug/L	03.26.13 12.31	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	1.00	ug/L	03.26.13 12.31	U	1
Trichloroethene	79-01-6	BRL	1.00	ug/L	03.26.13 12.31	U	1
Trichlorofluoromethane	75-69-4	BRL	1.00	ug/L	03.26.13 12.31	U	1
Vinyl chloride	75-01-4	BRL	1.00	ug/L	03.26.13 12.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	101	%	53-159	03.26.13 12.31	
4-Bromofluorobenzene	460-00-4	102	%	30-186	03.26.13 12.31	
Toluene-D8	2037-26-5	98	%	70-130	03.26.13 12.31	

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AMEC E&I, Inc., Atlanta, GA

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Sample Id: **GP-32-1'** Matrix: Soil Date Received: 03.21.13 13.06
Lab Sample Id: **459815-030** Date Collected: 03.19.13 14.31

Analytical Method: **Metals, Total by SW846 6010C** Prep Method: SW3050B
Tech: ABA % Moisture: 9.75
Analyst: 4150 Date Prep: 03.25.13 09.30 Basis: Dry Weight
Seq Number: 910078

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Lead	7439-92-1	**8.00**	5.33	mg/kg	03.28.13 15.05		1

Analytical Method: **Percent Moisture**
Tech: BLF % Moisture:
Analyst: NIV Basis: Wet Weight
Seq Number: 909917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**9.75**	0.100	%	03.26.13 13.00		1

XENCO Laboratories

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantiation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

\+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

XENCO Laboratories
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QC Summary 459815

AMEC E&I, Inc.

139 Brampton Road

Analytical Method: **Metals, Total by SW846 6010C** Prep Method: SW3050B
Seq Number: 910078 Matrix: Solid Date Prep: 03/25/2013
MB Sample Id: 635552-1-BLK LCS Sample Id: 635552-1-BKS LCSD Sample Id: 635552-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Lead	<0.279	100	105	105	103	103	80-120	2	20	mg/kg	03/28/13 14:19	

Analytical Method: **Metals, Total by SW846 6010C** Prep Method: SW3050B
Seq Number: 910078 Matrix: Sludge Date Prep: 03/25/2013
Parent Sample Id: 459672-001 MD Sample Id: 459672-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Lead	52.4	49.5	6	20	mg/kg	03/28/13 14:24	

Analytical Method: **Metals, Total by SW846 6010C** Prep Method: SW3050B
Seq Number: 910078 Matrix: Sludge Date Prep: 03/25/2013
Parent Sample Id: 459672-001 MS Sample Id: 459672-001 S MSD Sample Id: 459672-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Lead	52.4	660	754	106	764	101	80-120	1	20	mg/kg	03/28/13 14:26	

Analytical Method: **Percent Moisture**
Seq Number: 909917 Matrix: Soil
Parent Sample Id: 459732-001 MD Sample Id: 459732-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	17.1	18.1	6	20	%	03/26/13 13:00	

Analytical Method: **Percent Moisture**
Seq Number: 909917 Matrix: Soil
Parent Sample Id: 459815-001 MD Sample Id: 459815-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	13.1	11.4	14	20	%	03/26/13 13:00	

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QC Summary 459815

AMEC E&I, Inc.

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Analytical Method: **Percent Moisture**

Seq Number: 909919 Matrix: Soil

Parent Sample Id: 459815-025 MD Sample Id: 459815-025 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	7.24	9.16	23	20	%	03/26/13 13:00	F

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Florida Testing Services, LLC

QC Summary 459815

AMEC E&I, Inc.

139 Brampton Road

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 909969 Matrix: Water Date Prep: 03/26/2013
MB Sample Id: 635730-1-BLK LCS Sample Id: 635730-1-BKS LCSD Sample Id: 635730-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.160	50.0	45.4	91	43.5	87	65-130	4	20	ug/L	03/26/13 09:47	
1,1,2,2-Tetrachloroethane	<0.180	50.0	50.3	101	49.6	99	65-130	1	20	ug/L	03/26/13 09:47	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.110	50.0	41.7	83	44.1	88	65-130	6	20	ug/L	03/26/13 09:47	
1,1,2-Trichloroethane	<0.250	50.0	49.1	98	47.2	94	75-125	4	20	ug/L	03/26/13 09:47	
1,1-Dichloroethane	<0.110	50.0	44.8	90	44.9	90	70-135	0	20	ug/L	03/26/13 09:47	
1,1-Dichloroethene	<0.200	50.0	43.1	86	40.8	82	70-130	5	20	ug/L	03/26/13 09:47	
1,2,4-Trichlorobenzene	<0.170	50.0	47.0	94	48.2	96	65-135	3	20	ug/L	03/26/13 09:47	
1,2-Dibromo-3-chloropropane (DBCP)	<0.190	50.0	49.0	98	53.1	106	50-130	8	20	ug/L	03/26/13 09:47	
1,2-Dibromoethane (EDB)	<0.180	50.0	48.8	98	51.5	103	80-120	5	20	ug/L	03/26/13 09:47	
1,2-Dichlorobenzene	<0.140	50.0	46.1	92	48.2	96	70-120	4	20	ug/L	03/26/13 09:47	
1,2-Dichloroethane	<0.180	50.0	45.8	92	44.5	89	70-130	3	20	ug/L	03/26/13 09:47	
1,2-Dichloropropane	<0.150	50.0	46.0	92	47.8	96	75-125	4	20	ug/L	03/26/13 09:47	
1,3-Dichlorobenzene	<0.170	50.0	48.0	96	48.8	98	75-125	2	20	ug/L	03/26/13 09:47	
1,4-Dichlorobenzene	<0.170	50.0	45.4	91	47.3	95	75-125	4	20	ug/L	03/26/13 09:47	
1,4-Dioxane	<8.84	1000	970	97	966	97	30-145	0	20	ug/L	03/26/13 09:47	
2-Butanone (MEK)	<0.280	100	95.8	96	103	103	30-150	7	20	ug/L	03/26/13 09:47	
2-Hexanone	<0.320	100	112	112	110	110	55-130	2	20	ug/L	03/26/13 09:47	
4-Methyl-2-pentanone (MIBK)	<0.260	100	99.7	100	99.4	99	60-135	0	20	ug/L	03/26/13 09:47	
Acetone	<0.350	100	107	107	108	108	40-140	1	20	ug/L	03/26/13 09:47	
Benzene	<0.160	50.0	46.0	92	46.0	92	80-120	0	20	ug/L	03/26/13 09:47	
Bromodichloromethane	<0.250	50.0	50.5	101	50.1	100	75-120	1	20	ug/L	03/26/13 09:47	
Bromoform	<0.170	50.0	45.2	90	44.2	88	70-130	2	20	ug/L	03/26/13 09:47	
Bromomethane	<0.250	50.0	46.8	94	46.8	94	30-145	0	20	ug/L	03/26/13 09:47	
Carbon disulfide	<0.260	50.0	40.6	81	41.7	83	35-160	3	20	ug/L	03/26/13 09:47	
Carbon tetrachloride	<0.330	50.0	48.5	97	48.2	96	65-140	1	20	ug/L	03/26/13 09:47	
Chlorobenzene	<0.150	50.0	45.8	92	47.2	94	80-120	3	20	ug/L	03/26/13 09:47	
Chloroethane	<0.260	50.0	47.2	94	48.7	97	60-135	3	20	ug/L	03/26/13 09:47	
Chloroform	<0.160	50.0	44.9	90	45.1	90	65-135	0	20	ug/L	03/26/13 09:47	
Chloromethane	<0.250	50.0	45.9	92	49.1	98	40-125	7	20	ug/L	03/26/13 09:47	
cis-1,2-Dichloroethene	<0.210	50.0	44.2	88	42.9	86	70-125	3	20	ug/L	03/26/13 09:47	
cis-1,3-Dichloropropene	<0.100	50.0	52.2	104	51.5	103	70-130	1	20	ug/L	03/26/13 09:47	
Cyclohexane	<0.150	50.0	46.2	92	48.1	96	65-135	4	20	ug/L	03/26/13 09:47	
Dibromochloromethane	<0.150	50.0	46.4	93	44.7	89	60-135	4	20	ug/L	03/26/13 09:47	
Dichlorodifluoromethane	<0.220	50.0	44.0	88	42.9	86	30-155	3	20	ug/L	03/26/13 09:47	
Ethylbenzene	<0.190	50.0	48.9	98	48.2	96	75-125	1	20	ug/L	03/26/13 09:47	
Isopropylbenzene	<0.150	50.0	49.7	99	47.6	95	75-125	4	20	ug/L	03/26/13 09:47	
m,p-Xylenes	<0.510	100	95.4	95	94.2	94	75-130	1	20	ug/L	03/26/13 09:47	
Methyl acetate	<0.260	50.0	46.0	92	46.1	92	65-135	0	20	ug/L	03/26/13 09:47	
Methyl tert-butyl ether	<0.180	100	90.2	90	88.6	89	65-125	2	20	ug/L	03/26/13 09:47	
Methylcyclohexane	<0.110	50.0	48.4	97	48.4	97	65-135	0	20	ug/L	03/26/13 09:47	
Methylene chloride	<0.420	50.0	44.9	90	43.6	87	55-140	3	20	ug/L	03/26/13 09:47	
o-Xylene	<0.200	50.0	45.9	92	47.3	95	80-120	3	20	ug/L	03/26/13 09:47	
Styrene	<0.180	50.0	51.2	102	50.1	100	65-135	2	20	ug/L	03/26/13 09:47	
Tetrachloroethene	<0.160	50.0	45.7	91	46.8	94	45-150	2	20	ug/L	03/26/13 09:47	
Toluene	<0.140	50.0	48.0	96	47.4	95	75-120	1	20	ug/L	03/26/13 09:47	
trans-1,2-Dichloroethene	<0.210	50.0	42.0	84	43.3	87	60-140	3	20	ug/L	03/26/13 09:47	
trans-1,3-Dichloropropene	<0.110	50.0	52.1	104	50.9	102	55-140	2	20	ug/L	03/26/13 09:47	
Trichloroethene	<0.190	50.0	45.9	92	45.8	92	70-125	0	20	ug/L	03/26/13 09:47	
Trichlorofluoromethane	<0.530	50.0	51.3	103	49.9	100	60-145	3	20	ug/L	03/26/13 09:47	

XENCO Laboratories
Florida Testing Services, LLC

QC Summary 459815

AMEC E&I, Inc.

139 Brampton Road

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 909969 Matrix: Water Date Prep: 03/26/2013
MB Sample Id: 635730-1-BLK LCS Sample Id: 635730-1-BKS LCSD Sample Id: 635730-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Vinyl chloride	<0.190	50.0	45.6	91	47.2	94	50-145	3	20	ug/L	03/26/13 09:47	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	103		90		91		53-159	%	03/26/13 09:47
4-Bromofluorobenzene	105		100		101		30-186	%	03/26/13 09:47
Toluene-D8	95		100		103		70-130	%	03/26/13 09:47

XENCO Laboratories
Florida Testing Services, LLC

QC Summary 459815

AMEC E&I, Inc.

139 Brampton Road

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 909969 Matrix: Ground Water Date Prep: 03/26/2013
Parent Sample Id: 459741-002 MS Sample Id: 459741-002 S MSD Sample Id: 459741-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.160	50.0	42.6	85	42.0	84	59-138	1	20	ug/L	03/26/13 19:46	
1,1,2,2-Tetrachloroethane	<0.180	50.0	49.2	98	46.9	94	63-126	5	20	ug/L	03/26/13 19:46	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.110	50.0	38.9	78	40.4	81	53-138	4	20	ug/L	03/26/13 19:46	
1,1,2-Trichloroethane	<0.250	50.0	46.3	93	46.8	94	72-115	1	20	ug/L	03/26/13 19:46	
1,1-Dichloroethane	<0.110	50.0	45.1	90	41.1	82	69-132	9	20	ug/L	03/26/13 19:46	
1,1-Dichloroethene	<0.200	50.0	37.4	75	39.1	78	62-131	4	20	ug/L	03/26/13 19:46	
1,2,4-Trichlorobenzene	<0.170	50.0	42.1	84	42.9	86	34-131	2	20	ug/L	03/26/13 19:46	
1,2-Dibromo-3-chloropropane (DBCP)	<0.190	50.0	44.2	88	45.4	91	53-121	3	20	ug/L	03/26/13 19:46	
1,2-Dibromoethane (EDB)	<0.180	50.0	48.5	97	47.1	94	66-125	3	20	ug/L	03/26/13 19:46	
1,2-Dichlorobenzene	<0.140	50.0	45.0	90	43.8	88	58-124	3	20	ug/L	03/26/13 19:46	
1,2-Dichloroethane	<0.180	50.0	44.0	88	42.7	85	55-141	3	20	ug/L	03/26/13 19:46	
1,2-Dichloropropane	<0.150	50.0	45.5	91	45.2	90	78-121	1	20	ug/L	03/26/13 19:46	
1,3-Dichlorobenzene	<0.170	50.0	46.4	93	44.1	88	62-120	5	20	ug/L	03/26/13 19:46	
1,4-Dichlorobenzene	<0.170	50.0	44.3	89	43.0	86	64-114	3	20	ug/L	03/26/13 19:46	
1,4-Dioxane	<8.84	1000	823	82	853	85	11-185	4	20	ug/L	03/26/13 19:46	
2-Butanone (MEK)	<0.280	100	95.4	95	101	101	50-152	6	20	ug/L	03/26/13 19:46	
2-Hexanone	<0.320	100	98.2	98	99.9	100	55-136	2	20	ug/L	03/26/13 19:46	
4-Methyl-2-pentanone (MIBK)	<0.260	100	91.5	92	90.6	91	65-132	1	20	ug/L	03/26/13 19:46	
Acetone	<0.350	100	99.1	99	98.5	99	40-140	1	20	ug/L	03/26/13 19:46	
Benzene	<0.160	50.0	44.3	89	44.3	89	77-118	0	20	ug/L	03/26/13 19:46	
Bromodichloromethane	<0.250	50.0	46.8	94	45.9	92	68-125	2	20	ug/L	03/26/13 19:46	
Bromoform	<0.170	50.0	41.7	83	38.3	77	53-112	9	20	ug/L	03/26/13 19:46	
Bromomethane	<0.250	50.0	40.5	81	40.6	81	63-137	0	20	ug/L	03/26/13 19:46	
Carbon disulfide	<0.260	50.0	38.0	76	37.0	74	26-147	3	20	ug/L	03/26/13 19:46	
Carbon tetrachloride	<0.330	50.0	41.0	82	39.2	78	56-138	4	20	ug/L	03/26/13 19:46	
Chlorobenzene	<0.150	50.0	44.8	90	44.2	88	71-114	1	20	ug/L	03/26/13 19:46	
Chloroethane	<0.260	50.0	41.3	83	42.9	86	60-137	4	20	ug/L	03/26/13 19:46	
Chloroform	<0.160	50.0	43.5	87	43.1	86	65-131	1	20	ug/L	03/26/13 19:46	
Chloromethane	<0.250	50.0	38.8	78	37.9	76	48-151	2	20	ug/L	03/26/13 19:46	
cis-1,2-Dichloroethene	<0.210	50.0	43.0	86	41.2	82	22-185	4	20	ug/L	03/26/13 19:46	
cis-1,3-Dichloropropene	<0.100	50.0	45.1	90	43.8	88	67-113	3	20	ug/L	03/26/13 19:46	
Cyclohexane	<0.150	50.0	41.6	83	43.1	86	61-141	4	20	ug/L	03/26/13 19:46	
Dibromochloromethane	<0.150	50.0	41.9	84	42.9	86	53-125	2	20	ug/L	03/26/13 19:46	
Dichlorodifluoromethane	<0.220	50.0	36.4	73	36.3	73	38-145	0	20	ug/L	03/26/13 19:46	
Ethylbenzene	<0.190	50.0	45.8	92	45.5	91	66-127	1	20	ug/L	03/26/13 19:46	
Isopropylbenzene	<0.150	50.0	48.0	96	46.0	92	58-127	4	20	ug/L	03/26/13 19:46	
m,p-Xylenes	<0.510	100	90.6	91	88.5	89	65-126	2	20	ug/L	03/26/13 19:46	
Methyl acetate	<0.260	50.0	41.8	84	42.2	84	65-135	1	20	ug/L	03/26/13 19:46	
Methyl tert-butyl ether	<0.180	100	86.0	86	87.0	87	58-141	1	20	ug/L	03/26/13 19:46	
Methylcyclohexane	<0.110	50.0	43.6	87	42.8	86	64-128	2	20	ug/L	03/26/13 19:46	
Methylene chloride	<0.420	50.0	41.2	82	42.6	85	63-150	3	20	ug/L	03/26/13 19:46	
o-Xylene	<0.200	50.0	45.5	91	43.7	87	64-123	4	20	ug/L	03/26/13 19:46	
Styrene	<0.180	50.0	47.4	95	46.8	94	50-133	1	20	ug/L	03/26/13 19:46	
Tetrachloroethene	<0.160	50.0	44.6	89	43.9	88	52-125	2	20	ug/L	03/26/13 19:46	
Toluene	<0.140	50.0	45.3	91	45.2	90	65-123	0	20	ug/L	03/26/13 19:46	
trans-1,2-Dichloroethene	<0.210	50.0	44.3	89	40.9	82	65-135	8	20	ug/L	03/26/13 19:46	
trans-1,3-Dichloropropene	<0.110	50.0	45.1	90	44.6	89	50-125	1	20	ug/L	03/26/13 19:46	
Trichloroethene	<0.190	50.0	43.8	88	42.9	86	65-125	2	20	ug/L	03/26/13 19:46	
Trichlorofluoromethane	<0.530	50.0	45.2	90	43.8	88	51-145	3	20	ug/L	03/26/13 19:46	

XENCO Laboratories
Florida Testing Services, LLC

QC Summary 459815

AMEC E&I, Inc.

139 Brampton Road

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 909969 Matrix: Ground Water Date Prep: 03/26/2013
Parent Sample Id: 459741-002 MS Sample Id: 459741-002 S MSD Sample Id: 459741-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Vinyl chloride	<0.190	50.0	35.0	70	37.2	74	52-140	6	20	ug/L	03/26/13 19:46	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	90		89		53-159	%	03/26/13 19:46
4-Bromofluorobenzene	102		100		30-186	%	03/26/13 19:46
Toluene-D8	96		101		70-130	%	03/26/13 19:46

XENCO Laboratories
Florida Testing Services, LLC

QC Summary 459815

AMEC E&I, Inc.

139 Brampton Road

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5035
Seq Number: 909932 Matrix: Solid Date Prep: 03/25/2013
MB Sample Id: 635682-1-BLK LCS Sample Id: 635682-1-BKS LCSD Sample Id: 635682-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.753	50.0	56.0	112	54.2	108	75-145	3	20	ug/kg	03/25/13 06:51	
1,1,2,2-Tetrachloroethane	<1.19	50.0	51.1	102	51.2	102	78-120	0	20	ug/kg	03/25/13 06:51	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<1.11	50.0	63.2	126	54.0	108	54-173	16	20	ug/kg	03/25/13 06:51	
1,1,2-Trichloroethane	<0.670	50.0	52.3	105	51.5	103	81-115	2	20	ug/kg	03/25/13 06:51	
1,1-Dichloroethane	<0.802	50.0	52.9	106	52.1	104	73-131	2	20	ug/kg	03/25/13 06:51	
1,1-Dichloroethene	<1.16	50.0	56.4	113	54.1	108	67-144	4	20	ug/kg	03/25/13 06:51	
1,2,4-Trichlorobenzene	<0.873	50.0	63.3	127	53.1	106	61-170	18	20	ug/kg	03/25/13 06:51	
1,2-Dibromo-3-chloropropane (DBCP)	<1.62	50.0	59.3	119	55.2	110	62-146	7	20	ug/kg	03/25/13 06:51	
1,2-Dibromoethane (EDB)	<0.863	50.0	53.2	106	53.7	107	81-121	1	20	ug/kg	03/25/13 06:51	
1,2-Dichlorobenzene	<1.29	50.0	54.1	108	49.8	100	70-146	8	20	ug/kg	03/25/13 06:51	
1,2-Dichloroethane	<0.597	50.0	53.5	107	55.2	110	63-150	3	20	ug/kg	03/25/13 06:51	
1,2-Dichloropropane	<0.929	50.0	52.9	106	53.5	107	76-121	1	20	ug/kg	03/25/13 06:51	
1,3-Dichlorobenzene	<0.997	50.0	54.5	109	51.1	102	73-145	6	20	ug/kg	03/25/13 06:51	
1,4-Dichlorobenzene	<0.684	50.0	55.0	110	49.9	100	74-143	10	20	ug/kg	03/25/13 06:51	
1,4-Dioxane	<97.7	1000	964	96	852	85	33-138	12	20	ug/kg	03/25/13 06:51	
2-Butanone (MEK)	<9.11	100	109	109	111	111	44-158	2	20	ug/kg	03/25/13 06:51	
2-Hexanone	<1.13	100	113	113	111	111	59-154	2	20	ug/kg	03/25/13 06:51	
4-Methyl-2-pentanone (MIBK)	<3.23	100	108	108	114	114	65-132	5	20	ug/kg	03/25/13 06:51	
Acetone	<6.88	100	108	108	115	115	43-163	6	20	ug/kg	03/25/13 06:51	
Benzene	<0.513	50.0	53.8	108	53.0	106	82-121	1	20	ug/kg	03/25/13 06:51	
Bromodichloromethane	<0.501	50.0	54.2	108	55.1	110	80-135	2	20	ug/kg	03/25/13 06:51	
Bromoform	<0.959	50.0	55.6	111	58.2	116	71-135	5	20	ug/kg	03/25/13 06:51	
Bromomethane	<2.46	50.0	50.0	100	47.5	95	51-149	5	20	ug/kg	03/25/13 06:51	
Carbon disulfide	<1.46	50.0	54.7	109	50.6	101	57-151	8	20	ug/kg	03/25/13 06:51	
Carbon tetrachloride	<0.742	50.0	57.8	116	56.0	112	70-156	3	20	ug/kg	03/25/13 06:51	
Chlorobenzene	<0.579	50.0	54.4	109	50.6	101	76-131	7	20	ug/kg	03/25/13 06:51	
Chloroethane	<2.45	50.0	60.2	120	58.4	117	64-131	3	20	ug/kg	03/25/13 06:51	
Chloroform	<0.741	50.0	53.3	107	52.8	106	78-125	1	20	ug/kg	03/25/13 06:51	
Chloromethane	<2.30	50.0	41.9	84	40.5	81	59-127	3	20	ug/kg	03/25/13 06:51	
cis-1,2-Dichloroethene	<0.662	50.0	55.2	110	53.3	107	80-123	4	20	ug/kg	03/25/13 06:51	
cis-1,3-Dichloropropene	<0.539	50.0	56.1	112	56.2	112	87-123	0	20	ug/kg	03/25/13 06:51	
Cyclohexane	<0.945	50.0	52.6	105	46.7	93	58-164	12	20	ug/kg	03/25/13 06:51	
Dibromochloromethane	<0.994	50.0	54.6	109	53.7	107	81-136	2	20	ug/kg	03/25/13 06:51	
Dichlorodifluoromethane	<1.18	50.0	43.8	88	37.8	76	33-161	15	20	ug/kg	03/25/13 06:51	
Ethylbenzene	<0.565	50.0	55.9	112	51.4	103	84-129	8	20	ug/kg	03/25/13 06:51	
Isopropylbenzene	<0.759	50.0	55.5	111	52.6	105	65-153	5	20	ug/kg	03/25/13 06:51	
m,p-Xylenes	<1.21	100	111	111	103	103	75-141	7	20	ug/kg	03/25/13 06:51	
Methyl acetate	<0.946	50.0	42.4	85	54.3	109	45-155	25	20	ug/kg	03/25/13 06:51	F
Methyl tert-butyl ether	<0.693	100	103	103	105	105	70-131	2	20	ug/kg	03/25/13 06:51	
Methylcyclohexane	<1.09	50.0	61.1	122	56.2	112	39-185	8	20	ug/kg	03/25/13 06:51	
Methylene chloride	<2.17	50.0	56.6	113	56.7	113	65-137	0	20	ug/kg	03/25/13 06:51	
o-Xylene	<0.716	50.0	55.1	110	50.6	101	73-141	9	20	ug/kg	03/25/13 06:51	
Styrene	<0.742	50.0	55.3	111	52.3	105	82-129	6	20	ug/kg	03/25/13 06:51	
Tetrachloroethene	<1.04	50.0	58.8	118	52.8	106	78-144	11	20	ug/kg	03/25/13 06:51	
Toluene	<0.588	50.0	54.3	109	50.9	102	86-121	6	20	ug/kg	03/25/13 06:51	
trans-1,2-Dichloroethene	<0.780	50.0	56.8	114	53.6	107	72-132	6	20	ug/kg	03/25/13 06:51	
trans-1,3-Dichloropropene	<0.670	50.0	54.0	108	52.7	105	82-132	2	20	ug/kg	03/25/13 06:51	
Trichloroethene	<0.707	50.0	57.3	115	54.2	108	80-126	6	20	ug/kg	03/25/13 06:51	
Trichlorofluoromethane	<3.51	50.0	60.4	121	53.6	107	55-155	12	20	ug/kg	03/25/13 06:51	

XENCO Laboratories
Florida Testing Services, LLC

QC Summary 459815

AMEC E&I, Inc.

139 Brampton Road

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035
Seq Number: 909932 Matrix: Solid Date Prep: 03/25/2013
MB Sample Id: 635682-1-BLK LCS Sample Id: 635682-1-BKS LCSD Sample Id: 635682-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Vinyl chloride	<2.01	50.0	53.2	106	47.1	94	70-130	12	20	ug/kg	03/25/13 06:51	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	101		96		100		50-150	%	03/25/13 06:51
4-Bromofluorobenzene	101		97		103		57-158	%	03/25/13 06:51
Toluene-D8	97		98		97		50-150	%	03/25/13 06:51

XENCO Laboratories
Florida Testing Services, LLC

QC Summary 459815

AMEC E&I, Inc.

139 Brampton Road

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035
Seq Number: 909932 Matrix: Soil Date Prep: 03/25/2013
Parent Sample Id: 459815-019 MS Sample Id: 459815-019 S MSD Sample Id: 459815-019 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.000890	0.0591	0.0642	109	0.0685	117	62-137	6	20	mg/kg	03/25/13 16:27	
1,1,2,2-Tetrachloroethane	<0.00140	0.0591	0.0589	100	0.0531	91	64-128	10	20	mg/kg	03/25/13 16:27	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.00131	0.0591	0.0611	103	0.0699	120	33-177	13	20	mg/kg	03/25/13 16:27	
1,1,2-Trichloroethane	<0.000792	0.0591	0.0583	99	0.0545	93	61-130	7	20	mg/kg	03/25/13 16:27	
1,1-Dichloroethane	<0.000948	0.0591	0.0609	103	0.0633	109	65-136	4	20	mg/kg	03/25/13 16:27	
1,1-Dichloroethene	<0.00137	0.0591	0.0688	116	0.0711	122	33-158	3	20	mg/kg	03/25/13 16:27	
1,2,4-Trichlorobenzene	<0.00103	0.0591	0.0603	102	0.0575	99	43-139	5	20	mg/kg	03/25/13 16:27	
1,2-Dibromo-3-chloropropane (DBCP)	<0.00191	0.0591	0.0611	103	0.0562	96	51-130	8	20	mg/kg	03/25/13 16:27	
1,2-Dibromoethane (EDB)	<0.00102	0.0591	0.0587	99	0.0546	94	69-132	7	20	mg/kg	03/25/13 16:27	
1,2-Dichlorobenzene	<0.00152	0.0591	0.0584	99	0.0570	98	71-120	2	20	mg/kg	03/25/13 16:27	
1,2-Dichloroethane	<0.000706	0.0591	0.0588	99	0.0575	99	53-140	2	20	mg/kg	03/25/13 16:27	
1,2-Dichloropropane	<0.00110	0.0591	0.0587	99	0.0589	101	68-126	0	20	mg/kg	03/25/13 16:27	
1,3-Dichlorobenzene	<0.00118	0.0591	0.0618	105	0.0602	103	68-127	3	20	mg/kg	03/25/13 16:27	
1,4-Dichlorobenzene	<0.000809	0.0591	0.0611	103	0.0594	102	72-118	3	20	mg/kg	03/25/13 16:27	
1,4-Dioxane	<0.116	1.18	0.895	76	0.955	82	22-162	6	20	mg/kg	03/25/13 16:27	
2-Butanone (MEK)	<0.0108	0.118	0.117	99	0.110	94	42-147	6	20	mg/kg	03/25/13 16:27	
2-Hexanone	<0.00133	0.118	0.118	100	0.110	94	32-142	7	20	mg/kg	03/25/13 16:27	
4-Methyl-2-pentanone (MIBK)	<0.00382	0.118	0.120	102	0.117	100	34-149	3	20	mg/kg	03/25/13 16:27	
Acetone	<0.00813	0.118	0.102	86	0.102	87	43-163	0	20	mg/kg	03/25/13 16:27	
Benzene	<0.000606	0.0591	0.0608	103	0.0627	108	65-135	3	20	mg/kg	03/25/13 16:27	
Bromodichloromethane	<0.000592	0.0591	0.0601	102	0.0601	103	60-129	0	20	mg/kg	03/25/13 16:27	
Bromoform	<0.00113	0.0591	0.0643	109	0.0591	101	48-147	8	20	mg/kg	03/25/13 16:27	
Bromomethane	<0.00290	0.0591	0.0576	97	0.0591	101	42-170	3	20	mg/kg	03/25/13 16:27	
Carbon disulfide	<0.00172	0.0591	0.0631	107	0.0646	111	40-147	2	20	mg/kg	03/25/13 16:27	
Carbon tetrachloride	<0.000877	0.0591	0.0648	110	0.0700	120	54-148	8	20	mg/kg	03/25/13 16:27	
Chlorobenzene	<0.000684	0.0591	0.0602	102	0.0599	103	71-117	0	20	mg/kg	03/25/13 16:27	
Chloroethane	<0.00289	0.0591	0.0626	106	0.0594	102	44-166	5	20	mg/kg	03/25/13 16:27	
Chloroform	<0.000876	0.0591	0.0604	102	0.0623	107	62-127	3	20	mg/kg	03/25/13 16:27	
Chloromethane	<0.00272	0.0591	0.0493	83	0.0478	82	34-157	3	20	mg/kg	03/25/13 16:27	
cis-1,2-Dichloroethene	<0.000783	0.0591	0.0616	104	0.0637	109	41-155	3	20	mg/kg	03/25/13 16:27	
cis-1,3-Dichloropropene	<0.000637	0.0591	0.0614	104	0.0600	103	63-128	2	20	mg/kg	03/25/13 16:27	
Cyclohexane	<0.00112	0.0591	0.0688	116	0.0723	124	53-145	5	20	mg/kg	03/25/13 16:27	
Dibromochloromethane	<0.00118	0.0591	0.0597	101	0.0570	98	59-135	5	20	mg/kg	03/25/13 16:27	
Dichlorodifluoromethane	<0.00139	0.0591	0.0439	74	0.0442	76	16-171	1	20	mg/kg	03/25/13 16:27	
Ethylbenzene	<0.000668	0.0591	0.0625	106	0.0634	109	65-139	1	20	mg/kg	03/25/13 16:27	
Isopropylbenzene	<0.000897	0.0591	0.0661	112	0.0659	113	62-133	0	20	mg/kg	03/25/13 16:27	
m,p-Xylenes	<0.00143	0.118	0.126	107	0.127	109	69-130	1	20	mg/kg	03/25/13 16:27	
Methyl acetate	<0.00112	0.0591	0.0551	93	0.0684	117	20-170	22	20	mg/kg	03/25/13 16:27	F
Methyl tert-butyl ether	<0.000819	0.118	0.111	94	0.110	94	48-169	1	20	mg/kg	03/25/13 16:27	
Methylcyclohexane	<0.00129	0.0591	0.0670	113	0.0709	122	57-149	6	20	mg/kg	03/25/13 16:27	
Methylene chloride	<0.00256	0.0591	0.0621	105	0.0656	113	17-184	5	20	mg/kg	03/25/13 16:27	
o-Xylene	<0.000846	0.0591	0.0615	104	0.0620	106	71-124	1	20	mg/kg	03/25/13 16:27	
Styrene	<0.000877	0.0591	0.0613	104	0.0605	104	50-143	1	20	mg/kg	03/25/13 16:27	
Tetrachloroethene	<0.00122	0.0591	0.0657	111	0.0676	116	42-156	3	20	mg/kg	03/25/13 16:27	
Toluene	<0.000695	0.0591	0.0612	104	0.0619	106	65-128	1	20	mg/kg	03/25/13 16:27	
trans-1,2-Dichloroethene	<0.000922	0.0591	0.0653	110	0.0683	117	57-143	4	20	mg/kg	03/25/13 16:27	
trans-1,3-Dichloropropene	<0.000792	0.0591	0.0595	101	0.0566	97	55-141	5	20	mg/kg	03/25/13 16:27	
Trichloroethene	<0.000836	0.0591	0.0654	111	0.0670	115	39-150	2	20	mg/kg	03/25/13 16:27	
Trichlorofluoromethane	<0.00415	0.0591	0.0658	111	0.0720	123	34-179	9	20	mg/kg	03/25/13 16:27	

XENCO Laboratories
Florida Testing Services, LLC

QC Summary 459815

AMEC E&I, Inc.

139 Brampton Road

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035

Seq Number: 909932 Matrix: Soil Date Prep: 03/25/2013

Parent Sample Id: 459815-019 MS Sample Id: 459815-019 S MSD Sample Id: 459815-019 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Vinyl chloride	<0.00237	0.0591	0.0550	93	0.0619	106	40-161	12	20	mg/kg	03/25/13 16:27	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	93		93		50-150	%	03/25/13 16:27
4-Bromofluorobenzene	104		101		57-158	%	03/25/13 16:27
Toluene-D8	98		97		50-150	%	03/25/13 16:27

CHAIN OF CUSTODY RECORD

XENCO Laboratories — Environmental Asbestos Radiochemistry — xenco.com

Atlanta: 6017 Financial Dr. Norcross, GA 30071 770-449-8800
Boca Raton: 3231 NW 7th Ave, Boca Raton, FL 33431 561-447-7373
Miami: 14100 Palmetto Frontage Rd. Miami Lakes, FL 33016 305-823-8500
Orlando: 5448 Hoffner Av. Ste 408 Orlando, FL 32812 409-429-8022
Tampa: 2505 North Falkenburg Rd, Tampa, FL 33619 813-620-2000

Page 1 of 3

Lab W.O 459815

Field Billable Hrs:

*** Container Type Codes**

VA	Vial Amber	ES	Encore Sampler
VC	Vial Clear	TS	TerraCore Sampler
VP	Vial Pre-preserved	AC	Air Canister
GA	Glass Amber	TB	Tedlar Bag
GC	Glass Clear	ZB	Zip Lock Bag
PA	Plastic Amber	PC	Plastic Clear

Other _____

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal 40ml, 125 ml, 250 ml, 500 ml, 1L, Other _____
Example: 4ozGC = 4oz Glass Clear
40mlVP = 40ml Vial Pre-preserved

Company: AMEC
Address: 396 Plasters Ave
City: Atlanta State: GA Zip: 30329
PM/Attn: Tyler Boyles Phone: 404 817 0153
email: SAA Fax: 404 817 0153
Project Name: 139 Brampton Road Project ID: 6121 09 0220
Sampler Signature: [signature]
Circle One Event: Daily Weekly Monthly Quarterly Semi-Annual Annual N/A

PO # _____
Quote # _____

TAT Work Days = D Need results by: _____ Time: _____
Std (5-10D) 6Hrs 1D 2D 3D 4D (5D) 7D 10D 14D Other _____

ANALYSES REQUESTED

**** Preservative Type Codes**

A. None	E. HCL	I. Ice
B. HNO_3	F. MeOH	J. MCAA
C. H_2SO_4	G. $Na_2S_2O_3$	K. ZnAc&NaOH
D. NaOH	H. $NaHSO_4$	L Asbc Acid&NaOH

O. _____

^ Matrix Type Codes

GW	Ground Water	S	Soil/Sediment/Solid
WW	Waste Water	W	Wipe
DW	Drinking Water	A	Air
SW	Surface Water	O	Oil
OW	Ocean/Sea Water	T	Tissue
PL	Product-Liquid	U	Urine
PS	Product-Solid	B	Blood
SL	Sludge		

Other _____

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Composite or Grab	Field Filtered	Total # of containers	# Cont	Lab Only:									Hold Sample (CALL ___) Additions:	REMARKS
								Cont Type *	GC										
								Pres Type**	1										
									LEAD										
1	GP-27-1'	3/19/13	1010	SO	G	NA	1		X										
2	GP-27-2'		1012				1		X									X	HOLD
3	GP-28-1'		1040				1		X										
4	GP-28-2'		1042				1		X									X	HOLD
5	GP-29-1'		1105				1		X										
6	GP-29-2'		1107				1		X									X	HOLD
7	GP-30-1'		1202				1		X										
8	GP-30-2'		1204				1		X									X	HOLD
9	GP-31-1'		1355				1		X										
10	GP-31-2'	3/19/13	1357	SO	G	NA	1		X									X	HOLD

Reg. Program / Clean-up Std	STATE for Certs & Regs	QA/QC Level & Certification	EDDs	COC & Labels	Coolers Temp °C
CTLs TRRP DW NPDES LPST DryCln Other:	FL TX GA NC SC NJ PA OK LA AL IL Other:	1 2 3 4 CLP AFCEE QAPP NELAC DoD-ELAP Other:	ADaPT SEDD ERPIMS XLS Other:	Match Incomplete Absent Unclear	1. 2. 3.

	Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1	[signature]	AMEC	3/21/13	1238	[signature]	AMEC	3/21/13	1238
2	[signature]	AMEC	3/21/13	1306	Dano Lagmas		3/21/13	1306
3								
4								

Lab Use Only	YES	NO	N/A
Non-Conformances found?			
Samples intact upon arrival?			
Received on Wet Ice?			
Labeled with proper preservatives?			
Received within holding time?			
Custody seals intact?			
VOCs rec'd w/o headspace?			
Proper containers used?			
pH verified-acceptable, excl VOCs?			
Received on time to meet HTs?			

FTS: Philadelphia 610-955-5649 South Carolina 803-543-8099 B&A Laboratories: Corpus Christi 361-884-0371 Dallas 214-902-0300 Houston 281-240-4200 Odessa 432-563-1800 San Antonio 210-509-3334

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and all past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full.

C.O.C. Serial # 288156

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Lab W.O 459815

Field Billable Hrs:

*** Container Type Codes**

VA	Vial Amber	ES	Encore Sampler
VC	Vial Clear	TS	TerraCore Sampler
VP	Vial Pre-preserved	AC	Air Canister
GA	Glass Amber	TB	Tedlar Bag
GC	Glass Clear	ZB	Zip Lock Bag
PA	Plastic Amber	PC	Plastic Clear

Other _____

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal 40ml, 125 ml, 250 ml, 500 ml, 1L, Other _____
Example: 4ozGC = 4oz Glass Clear
40mlVP = 40ml Vial Pre-preserved

Company: AMEC
Address: 396 Plasters Ave
City: Atlanta State: GA Zip: 30324
PM/Attn: Tyler Boyle
email: SAA
Phone: 404 817 0153
Fax: 404 817 0183
Project Name: 139 Brompton Road
Project ID: 6121 09 0220
Sampler Signature:
Circle One Event: Daily Weekly Monthly Quarterly Semi-Annual Annual N/A

PO #
Quote #

TAT Work Days = D Need results by:_____ Time: _____
Std (5-10D) 6Hrs 1D 2D 3D 4D (5D) 7D 10D 14D Other_____

ANALYSES REQUESTED

**** Preservative Type Codes**

A. None E. HCL I. Ice
B. HNO_3 F. MeOH J. MCAA
C. H_2SO_4 G. $Na_2S_2O_3$ K. ZnAc&NaOH
D. NaOH H. $NaHSO_4$ L Asbc Acid&NaOH
O. _____

^ Matrix Type Codes

GW	Ground Water	S	Soil/Sediment/Solid
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SW	Surface Water	O	Oil
OW	Ocean/Sea Water	T	Tissue
PL	Product-Liquid	U	Urine
PS	Product-Solid	B	Blood
SL	Sludge		

Other _____

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Composite or Grab	Field Filtered	Total # of containers	# Cont	Lab Only:									Hold Sample (CALL) Additions:	REMARKS
								Cont Type *	VP	GC									
								Pres Type**	F, H, I	TB A1									
									VOC	Lead									
1	GP-32-1-2'	3/19/13	1433	SO	G	NA	4		X										
2	GP-32-3-4'		1435				4		X									X	HOLD
3	GP-33-1'		1530				1			X									
4	GP-33-2'		1535				1			X								X	HOLD
5	GP-34-2-3'		1600				4		X										
6	GP-34-3-5'		1602				4		X									X	HOLD
7	GP-35-2-3'		1624				4		X										
8	GP-35-3-5'		1631				4		X									X	HOLD
9	GP-36-2-3'		1704				4		X										
10	GP-36-3-5'	3/19/13	1706	SO	G	NA	4		X									X	HOLD

Reg. Program / Clean-up Std	STATE for Certs & Regs	QA/QC Level & Certification	EDDs	COC & Labels	Coolers Temp °C
CTLs TRRP DW NPDES LPST DryCln Other:	FL TX GA NC SC NJ PA OK LA AL IL Other:	1 2 3 4 CLP AFCEE QAPP NELAC DoD-ELAP Other:	ADaPT SEDD ERPIMS XLS Other:	Match Incomplete Absent Unclear	1. 2. 3.

	Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1		AMEC	3/21/13	1238		AMEC	3/21/13	1238
2		AMEC	3/21/13	1306	Quinio Lagmas		3/21/13	13:06
3								
4								

Lab Use Only	YES	NO	N/A
Non-Conformances found?			
Samples intact upon arrival?			
Received on Wet Ice?			
Labeled with proper preservatives?			
Received within holding time?			
Custody seals intact?			
VOCs rec'd w/o headspace?			
Proper containers used?			
pH verified-acceptable, excl VOCs?			
Received on time to meet HTs?			

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C.O.C. Serial # 288157

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Environmental Asbestos Radiochemistry
xenco.com

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Lab W.O 459815

Field Billable Hrs:

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VA	Vial Amber	ES	Encore Sampler
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VP	Vial Pre-preserved	AC	Air Canister
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PA	Plastic Amber	PC	Plastic Clear

Other _____

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal 40ml, 125 ml, 250 ml, 500 ml, 1L, Other _____
Example: 4ozGC = 4oz Glass Clear
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Company: AMEC
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email: SAA
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Fax: 404 817 0183
Project Name: 139 Brumpton Road
Project ID: 6121 09 0220
Sampler Signature:
Circle One Event: Daily Weekly Monthly Quarterly Semi-Annual Annual N/A

PO #
Quote #

TAT Work Days = D Need results by: _____ Time: _____
Std (5-10D) 6Hrs 1D 2D 3D 4D (5D) 7D 10D 14D Other _____

ANALYSES REQUESTED

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Composite or Grab	Field Filtered	Total # of containers	# Cont	Lab Only:	VOCs	VOCs	Lead									Hold Sample (CALL ___) Additions:	REMARKS
								Cont Type *		VP	VP	GL										
								Pres Type**		F, H, I	E, I	I										
1	GP-37-1'	3/19/13	1715	SO	G	NA	1					X										
2	GP-37-2'		1717				1					X									X	HOLD
3	GP-38-1'		1745				1					X										
4	GP-38-2'		1747				1					X									X	HOLD
5	DUP-1		1745				1					X										
6	DUP-2	3/19/13	1629	SO			4			X												
7	GW-9	3/20/13	1050	GW			2				X											
8	EW-3	3/20/13	1206	GW	G	NA	2				X											
9	TRIP BLANK																					
10	GP-32-1'	3/19/13	1431	SO	G	NA	1					X										

**** Preservative Type Codes**

A. None	E. HCL	I. Ice
B. HNO_3	F. MeOH	J. MCAA
C. H_2SO_4	G. $Na_2S_2O_3$	K. ZnAc&NaOH
D. NaOH	H. $NaHSO_4$	L Asbc Acid&NaOH

O. _____

^ Matrix Type Codes

GW	Ground Water	S	Soil/Sediment/Solid
WW	Waste Water	W	Wipe
DW	Drinking Water	A	Air
SW	Surface Water	O	Oil
OW	Ocean/Sea Water	T	Tissue
PL	Product-Liquid	U	Urine
PS	Product-Solid	B	Blood
SL	Sludge		

Other _____

Reg. Program / Clean-up Std	STATE for Certs & Regs	QA/QC Level & Certification	EDDs	COC & Labels	Coolers Temp °C
CTLs TRRP DW NPDES LPST DryCln Other:	FL TX GA NC SC NJ PA OK LA AL IL Other:	1 2 3 4 CLP AFCEE QAPP NELAC DoD-ELAP Other:	ADaPT SEDD ERPIMS XLS Other:	Match Incomplete Absent Unclear	1. 2. 3.

	Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1	[signature]	AMEC	3/21/13	1238	[signature]	AMEC	3/21/13	1238
2	[signature]	AMEC	3/21/13	1306	Mario Lagmas		3/21/13	13:06
3								
4								

Lab Use Only	YES	NO	N/A
Non-Conformances found?			
Samples intact upon arrival?			
Received on Wet Ice?			
Labeled with proper preservatives?			
Received within holding time?			
Custody seals intact?			
VOCs rec'd w/o headspace?			
Proper containers used?			
pH verified-acceptable, excl VOCs?			
Received on time to meet HTs?			

FTS: Philadelphia 610-955-5649 South Carolina 803-543-8099 B&A Laboratories: Corpus Christi 361-884-0371 Dallas 214-902-0300 Houston 281-240-4200 Odessa 432-563-1800 San Antonio 210-509-3334

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and all past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full.

C.O.C. Serial # 288158

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: AMEC E&I, Inc.

Date/ Time Received: 03/21/2013 01:06:00 PM

Work Order #: 459815

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : #61

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	4	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	N/A	
#5 Custody Seals intact on sample bottles?	N/A	
#6 *Custody Seals Signed and dated?	N/A	
#7 *Chain of Custody present?	Yes	
#8 Sample instructions complete on Chain of Custody?	Yes	
#9 Any missing/extra samples?	No	
#10 Chain of Custody signed when relinquished/ received?	Yes	
#11 Chain of Custody agrees with sample label(s)?	Yes	
#12 Container label(s) legible and intact?	Yes	
#13 Sample matrix/ properties agree with Chain of Custody?	Yes	
#14 Samples in proper container/ bottle?	Yes	
#15 Samples properly preserved?	Yes	
#16 Sample container(s) intact?	Yes	
#17 Sufficient sample amount for indicated test(s)?	Yes	
#18 All samples received within hold time?	Yes	
#19 Subcontract of sample(s)?	No	
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes	
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	N/A	
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	N/A	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:

Checklist completed by: Dijana Piljak — Date: 03/25/2013

Dijana Piljak

Checklist reviewed by: Dijana Piljak — Date: 03/25/2013

Dijana Piljak

APPENDIX C

BORING LOGS AND MONITORING WELL CONSTRUCTION DIAGRAMS

DEPTH (ft)	SOIL CLASSIFICATION AND REMARKS SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.	LEGEND	ELEV (ft)	SAMPLES IDENT	SAMPLES TYPE	SAMPLES N-COUNT 1st 6" 2nd 6" 3rd 6"	PL (%) NM (%) LL (%) ▲ FINES (%) ● SPT (bpf) 10 20 30 40 50 60 70 80 90 100
0	Grass **TOPSOIL**.						
	Brown slightly micaceous fine to medium sandy **SILT**.						
	PID = ND						
	Gray fine to medium sand y **SILT** with clay. PID = ND						
5	PID = ND						
	PID = ND						
	Yellow brown fine to medium sandy **CLAY**.						
10							
	Boring terminated at 13 feet.						
15							
20							
25							
30							
35							
40							
45							

0 10 20 30 40 50 60 70 80 90 100

SOIL TEST BORING 139 BRAMPTON RD PROPERTY - FORMER RHEEM MANUFACTURING.GPJ AMEC.GDT 4/19/13

DRILLER: Geo Lab
EQUIPMENT: Geoprobe 6610
METHOD: HSA
HOLE DIA.: 4 inches
REMARKS:

PREPARED BY: S. Davenport CHECKED BY: C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

SOIL TEST BORING RECORD

BORING NO.: EU-1
PROJECT: 139 Brampton Road Property
LOCATION: Savannah, GA
DRILLED: March 15, 2017
PROJECT NO.: 6121-09-0220

amec

DEPTH (ft)	SOIL CLASSIFICATION AND REMARKS SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.	LEGEND	ELEV (ft)	SAMPLES IDENT	SAMPLES TYPE	SAMPLES N-COUNT 1st 6" 2nd 6" 3rd 6"	PL (%) NM (%) LL (%) ▲ FINES (%) ● SPT (bpf) 10 20 30 40 50 60 70 80 90 100
0	Grass **TOPSOIL.** Brown slightly micaceous fine to medium sandy **SILT** with some clay. PID = ND						
	Gray fine to medium **SAND** with some silt. PID = ND						
5	PID = ND						5
	PID = ND						
10	Boring terminated at 10 feet.						10
15							15
20							20
25							25
30							30
35							35
40							40
45							0 10 20 30 40 50 60 70 80 90 100

SOIL TEST BORING 139 BRAMPTON RD PROPERTY - FORMER RHEEM MANUFACTURING.GPJ AMEC.GDT 4/19/13

DRILLER: Geo Lab
EQUIPMENT: Geoprobe 6610
METHOD: HSA
HOLE DIA.: 4 inches
REMARKS:

PREPARED BY: S. Davenport CHECKED BY: C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

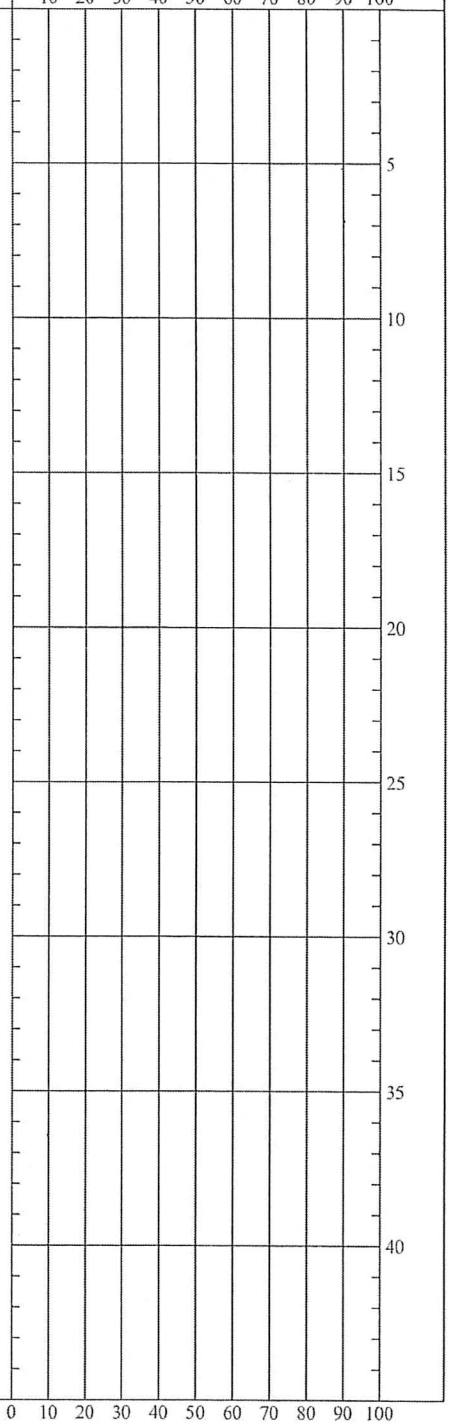
SOIL TEST BORING RECORD

BORING NO.: GP-27
PROJECT: 139 Brampton Road Property
LOCATION: Savannah, GA
DRILLED: March 15, 2017
PROJECT NO.: 6121-09-0220

amec

DEPTH (ft)	SOIL CLASSIFICATION AND REMARKS SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.	LEGEND	ELEV (ft)	SAMPLES IDENT	SAMPLES TYPE	SAMPLES N-COUNT 1st 6" 2nd 6" 3rd 6"
0	Grass **TOPSOIL.**					
	Brown slightly micaceous fine to medium sandy **SILT** with some clay. PID = ND					
	Gray fine to medium sandy **CLAY.** PID = ND					
5	PID = ND					
	Gray fine sandy **SILT.** PID = ND					
10	Boring terminated at 10 feet.					
15						
20						
25						
30						
35						
40						
45						

PL (%) NM (%) LL (%)
▲ FINES (%)
● SPT (bpf)



SOIL TEST BORING 139 BRAMPTON RD PROPERTY - FORMER RHEEM MANUFACTURING.GPJ AMEC.GDT 4/19/13

DRILLER: Geo Lab
EQUIPMENT: Geoprobe 6610
METHOD: HSA
HOLE DIA.: 4 inches
REMARKS:

PREPARED BY: S. Davenport CHECKED BY: C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

SOIL TEST BORING RECORD

BORING NO.: GP-28
PROJECT: 139 Brampton Road Property
LOCATION: Savannah, GA
DRILLED: March 15, 2017
PROJECT NO.: 6121-09-0220

amec

DEPTH (ft)	SOIL CLASSIFICATION AND REMARKS SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.	LEGEND	ELEV (ft)	SAMPLES IDENT	SAMPLES TYPE	SAMPLES N-COUNT 1st 6" 2nd 6" 3rd 6"	PL (%) NM (%) LL (%) ▲ FINES (%) ● SPT (bpf) 10 20 30 40 50 60 70 80 90 100
0	Grass **TOPSOIL.**						
	Brown slightly micaceous fine to medium sandy **SILT.** PID = ND						
	Gray fine to medium sandy **SILT** with clay. PID = ND						
5	PID = ND						
	Gray fine sandy **SILT.** PID = ND						
10	Boring terminated at 10 feet.						
15							
20							
25							
30							
35							
40							
45							

0 10 20 30 40 50 60 70 80 90 100

SOIL TEST BORING 139 BRAMPTON RD PROPERTY - FORMER RHEEM MANUFACTURING.GPJ AMEC.GDT 4/19/13

DRILLER: Geo Lab
EQUIPMENT: Geoprobe 6610
METHOD: HSA
HOLE DIA.: 4 inches
REMARKS:

PREPARED BY: S. Davenport CHECKED BY: C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

SOIL TEST BORING RECORD

BORING NO.: GP-29
PROJECT: 139 Brampton Road Property
LOCATION: Savannah, GA
DRILLED: March 15, 2017
PROJECT NO.: 6121-09-0220

amec

DEPTH (ft)	SOIL CLASSIFICATION AND REMARKS SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.	LEGEND	ELEV (ft)	SAMPLES IDENT	SAMPLES TYPE	SAMPLES N-COUNT 1st 6" 2nd 6" 3rd 6"	PL (%) NM (%) LL (%) ▲ FINES (%) ● SPT (bpf)
0	**CONCRETE**						
	Brown fine coarse **SAND** with some clayey sand. PID = ND						
	Brown fine to medium sandy **SILT** with clay. PID = ND						
5	Brown fine to medium **SAND** with some silt. PID = ND PID = ND						
10	Boring terminated at 10 feet.						
15							
20							
25							
30							
35							
40							
45							

SOIL TEST BORING 139 BRAMPTON RD PROPERTY - FORMER RHEEM MANUFACTURING.GPJ AMEC.GDT 4/19/13

DRILLER: Geo Lab
EQUIPMENT: Geoprobe 6610
METHOD: HSA
HOLE DIA.: 4 inches
REMARKS:

PREPARED BY: S. Davenport CHECKED BY: C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

SOIL TEST BORING RECORD

BORING NO.: GP-30
PROJECT: 139 Brampton Road Property
LOCATION: Savannah, GA
DRILLED: March 15, 2017
PROJECT NO.: 6121-09-0220

amec

DEPTH (ft)	SOIL CLASSIFICATION AND REMARKS SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.	LEGEND	ELEV (ft)	SAMPLES IDENT	SAMPLES TYPE	SAMPLES N-COUNT 1st 6" 2nd 6" 3rd 6"	PL (%) NM (%) LL (%) ▲ FINES (%) ● SPT (bpf) 10 20 30 40 50 60 70 80 90 100
0	Grass **TOPSOIL.**						
	Brown fine to medium sandy **SILT.** PID = ND PID = ND						
5	Gray brown fine to medium sandy **SILT** with clay. PID = ND PID = ND						
10	Boring terminated at 10 feet.						
15							
20							
25							
30							
35							
40							
45							

0 10 20 30 40 50 60 70 80 90 100

SOIL TEST BORING 139 BRAMPTON RD PROPERTY - FORMER RHEEM MANUFACTURING.GPJ AMEC.GDT 4/19/13

DRILLER: Geo Lab
EQUIPMENT: Geoprobe 6610
METHOD: HSA
HOLE DIA.: 4 inches
REMARKS:

PREPARED BY: S. Davenport CHECKED BY: C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

SOIL TEST BORING RECORD

BORING NO.: GP-31
PROJECT: 139 Brampton Road Property
LOCATION: Savannah, GA
DRILLED: March 15, 2017
PROJECT NO.: 6121-09-0220

amec

DEPTH (ft)	SOIL CLASSIFICATION AND REMARKS SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.	LEGEND	ELEV (ft)	SAMPLES IDENT	SAMPLES TYPE	SAMPLES N-COUNT 1st 6" 2nd 6" 3rd 6"	PL (%) NM (%) LL (%) ▲ FINES (%) ● SPT (bpf) 10 20 30 40 50 60 70 80 90 100
0	Grass **TOPSOIL.**						
	Brown fine to medium sandy **SILT.**						
	PID = ND						
	Gray fine to medium sandy **SILT** with clay.						
	PID = ND						
5							
	PID = ND						
	PID = ND						
10	Boring terminated at 10 feet.						
15							
20							
25							
30							
35							
40							
45							

0 10 20 30 40 50 60 70 80 90 100

SOIL TEST BORING 139 BRAMPTON RD PROPERTY - FORMER RHEEM MANUFACTURING.GPJ AMEC.GDT 4/19/13

DRILLER: Geo Lab
EQUIPMENT: Geoprobe 6610
METHOD: HSA
HOLE DIA.: 4 inches
REMARKS:

PREPARED BY: S. Davenport CHECKED BY: C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

SOIL TEST BORING RECORD

BORING NO.: GP-32
PROJECT: 139 Brampton Road Property
LOCATION: Savannah, GA
DRILLED: March 15, 2017
PROJECT NO.: 6121-09-0220

amec

DEPTH (ft)	SOIL CLASSIFICATION AND REMARKS SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.	LEGEND	ELEV (ft)	SAMPLES: IDENT	TYPE	N-COUNT 1st 6" 2nd 6" 3rd 6"	PL (%) NM (%) LL (%) ▲ FINES (%) ● SPT (bpf) 10 20 30 40 50 60 70 80 90 100
0	Grass **TOPSOIL.**						
	Brown fine to medium sandy **SILT**.						
	PID = ND						
	Gray fine to medium sandy **SILT** with clay.						
	PID = ND						
5	PID = ND						
	PID = ND						
10	Boring terminated at 10 feet.						
15							
20							
25							
30							
35							
40							
45							

0 10 20 30 40 50 60 70 80 90 100

SOIL TEST BORING 139 BRAMPTON RD PROPERTY - FORMER RHEEM MANUFACTURING.GPJ AMEC.GDT 4/19/13

DRILLER: Geo Lab
EQUIPMENT: Geoprobe 6610
METHOD: HSA
HOLE DIA.: 4 inches
REMARKS:

PREPARED BY: S. Davenport CHECKED BY: C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

SOIL TEST BORING RECORD

BORING NO.: GP-33
PROJECT: 139 Brampton Road Property
LOCATION: Savannah, GA
DRILLED: March 15, 2017
PROJECT NO.: 6121-09-0220

amec

DEPTH (ft)	SOIL CLASSIFICATION AND REMARKS SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.	LEGEND	ELEV (ft)	SAMPLES: IDENT	TYPE	N-COUNT 1st 6" 2nd 6" 3rd 6"	PL (%) NM (%) LL (%) ▲ FINES (%) ● SPT (bpf)
0	Grass **TOPSOIL.**						
	Brown fine to medium sandy **SILT.** PID = ND						
	Gray fine to medium sandy **SILT** with clay. PID = ND. PID = ND PID = ND						
5							
10							
15							
20							
25							
30							
35							
40							
45							

SOIL TEST BORING 139 BRAMPTON RD PROPERTY - FORMER RHEEM MANUFACTURING.GPJ AMEC.GDT 4/19/13

DRILLER: Geo Lab
EQUIPMENT: Geoprobe 6610
METHOD: HSA
HOLE DIA.: 4 inches
REMARKS:

PREPARED BY: S. Davenport CHECKED BY: C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

SOIL TEST BORING RECORD

BORING NO.: GP-34
PROJECT: 139 Brampton Road Property
LOCATION: Savannah, GA
DRILLED: March 15, 2017
PROJECT NO.: 6121-09-0220

amec

DEPTH (ft)	SOIL CLASSIFICATION AND REMARKS SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.	LEGEND	ELEV (ft)	SAMPLES IDENT	SAMPLES TYPE	SAMPLES N-COUNT 1st 6" 2nd 6" 3rd 6"	PL (%) NM (%) LL (%) ▲ FINES (%) ● SPT (bpf) 10 20 30 40 50 60 70 80 90 100
0	CONCRETE						
	Brown fine to medium sandy **SILT**. PID = ND						
	Gray fine to medium sandy **SILT** with clay. PID = ND						
5							
10	Boring terminated at 10 feet.						
15							
20							
25							
30							
35							
40							
45							

0 10 20 30 40 50 60 70 80 90 100

SOIL TEST BORING 139 BRAMPTON RD PROPERTY - FORMER RHEEM MANUFACTURING.GPJ AMEC.GDT 4/19/13

DRILLER: Geo Lab
EQUIPMENT: Geoprobe 6610
METHOD: HSA
HOLE DIA.: 4 inches
REMARKS:

PREPARED BY: S. Davenport CHECKED BY: C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

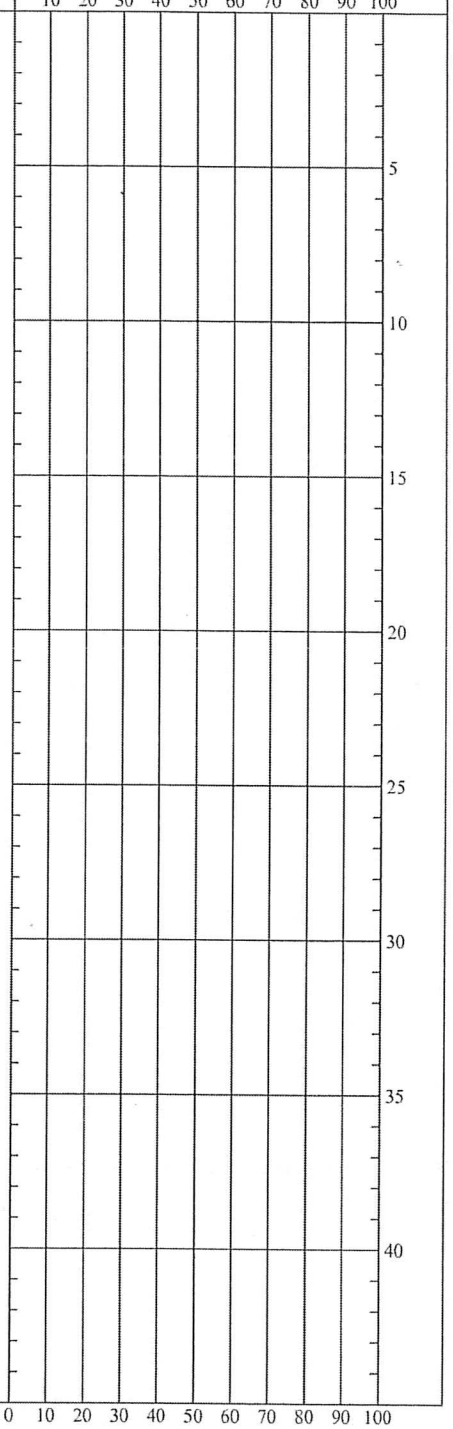
SOIL TEST BORING RECORD

BORING NO.: GP-35
PROJECT: 139 Brampton Road Property
LOCATION: Savannah, GA
DRILLED: March 15, 2017
PROJECT NO.: 6121-09-0220

amec

DEPTH (ft)	SOIL CLASSIFICATION AND REMARKS SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.	LEGEND	ELEV (ft)	SAMPLES IDENT	SAMPLES TYPE	SAMPLES N-COUNT 1st 6" 2nd 6" 3rd 6"
0	Gray **TOPSOIL.**					
	Brown fine to medium **SAND** with some silt. PID = ND					
	Gray fine sandy **CLAY.** PID = ND					
5	PID = ND					
	Brown fine to medium sandy **SILT** with some clay. PID = ND					
10	Boring terminated at 10 feet.					
15						
20						
25						
30						
35						
40						
45						

PL (%) NM (%) LL (%)
▲ FINES (%)
● SPT (bpf)



SOIL TEST BORING 139 BRAMPTON RD PROPERTY - FORMER RHEEM MANUFACTURING.GPJ AMEC.GDT 4/19/13

DRILLER: Geo Lab
EQUIPMENT: Geoprobe 6610
METHOD: HSA
HOLE DIA.: 4 inches
REMARKS:

PREPARED BY: S. Davenport CHECKED BY: C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

SOIL TEST BORING RECORD

BORING NO.: GP-36
PROJECT: 139 Brampton Road Property
LOCATION: Savannah, GA
DRILLED: March 15, 2017
PROJECT NO.: 6121-09-0220

amec

DEPTH (ft)	SOIL CLASSIFICATION AND REMARKS SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.	LEGEND	ELEV (ft)	SAMPLES: IDENT	SAMPLES: TYPE	SAMPLES: N-COUNT 1st 6" 2nd 6" 3rd 6"	PL (%) NM (%) LL (%) ▲ FINES (%) ● SPT (bpf) 10 20 30 40 50 60 70 80 90 100
0	**GRAVEL**						
	Brown fine to medium sandy **SILT**.						
	Red brown fine to medium sandy **SILT** with clay. PID = ND						
	Gray fine to medium sandy **SILT** with clay. PID = ND						
5	PID = ND						
	PID = ND						
10	Boring terminated at 10 feet.						
15							
20							
25							
30							
35							
40							
45							

0 10 20 30 40 50 60 70 80 90 100

SOIL TEST BORING 139 BRAMPTON RD PROPERTY - FORMER RHEEM MANUFACTURING.GPJ AMEC.GDT 4/19/13

DRILLER: Geo Lab
EQUIPMENT: Geoprobe 6610
METHOD: HSA
HOLE DIA.: 4 inches
REMARKS:

PREPARED BY: S. Davenport CHECKED BY: C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

SOIL TEST BORING RECORD

BORING NO.: GP-37
PROJECT: 139 Brampton Road Property
LOCATION: Savannah, GA
DRILLED: March 15, 2017
PROJECT NO.: 6121-09-0220

amec

DEPTH (ft)	SOIL CLASSIFICATION AND REMARKS SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.	LEGEND	ELEV (ft)	SAMPLES IDENT	SAMPLES TYPE	SAMPLES N-COUNT 1st 6" 2nd 6" 3rd 6"	PL (%) NM (%) LL (%) ▲ FINES (%) ● SPT (bpf) 10 20 30 40 50 60 70 80 90 100
0	**GRAVEL**						
	Brown fine to medium sandy **SILT**.						
	Red brown fine to medium sandy SILT with clay. PID = ND						
	Gray fine to medium sandy **SILT** with some clay. PID = ND						
5	PID = ND						
	PID = ND						
10	Boring terminated at 10 feet.						
15							
20							
25							
30							
35							
40							
45							

0 10 20 30 40 50 60 70 80 90 100

SOIL TEST BORING 139 BRAMPTON RD PROPERTY - FORMER RHEEM MANUFACTURING.GPJ AMEC.GDT 4/19/13

DRILLER: Geo Lab
EQUIPMENT: Geoprobe 6610
METHOD: HSA
HOLE DIA.: 4 inches
REMARKS:

PREPARED BY: S. Davenport CHECKED BY: C. Ferry

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

SOIL TEST BORING RECORD

BORING NO.: GP-38
PROJECT: 139 Brampton Road Property
LOCATION: Savannah, GA
DRILLED: March 15, 2017
PROJECT NO.: 6121-09-0220

amec

APPENDIX D

FIELD SAMPLING DATA SHEETS

Attachment 4.4

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM

Location: 139 Brampton Road, Savannah, Georgia

Identify Measuring Point (MP): TOP OF CASING
(e.g. Top of Casing)

Well ID: GW-9
Field Sampling Personnel: T Boyko

Depth to Screen below MP: 23 of screen (Top) 33.85 of screen (Bottom)

Pump Intake at (ft. below MP): 27
Purging Device (Pump Type): Peristaltic
(e.g. Dedicated pump, peristaltic pump, bailer, bladder pump, etc.)

Date	Time 24 hr	Depth to Water Below MP ft	Purge Rate mL/min	pH pH units	Spec Cond. mS/cm	Turbidity NTUs	DO Flow cell mg/L	Temp. °C	Redox Potential mV	Cum. Volume Purged gallons	CHEMetrics DO mg/L (low)	Hach Ferrous Iron mg/L	Comments
3/20/13	840	1.54		3.95	0.225	56	10.33	14.42	107	-			33.85 - 1.54 = 32.31
	845	1.61		3.89	0.213	45.9	3.05	14.86	108	0.5			32.31 × (.16) = 5.17
	855	1.62		3.97	0.205	31.2	1.64	17.42	65	1.5			5.17 × (3) = 15.51
	905	1.62		4.01	0.199	26	1.14	17.41	61	3.0			
	920	1.62		4.20	0.197	12.4	1.15	17.54	24	5.0			
	940	1.63		4.25	0.195	10.7	1.16	17.65	11	7.0			
	1005	1.62		4.31	0.195	9.5	0.75	17.79	1	10			
	1025	1.62		4.31	0.193	8.4	0.74	17.78	1	12			
	1050	1.62		4.30	0.192	8.7	0.74	17.79	1	16			SAMPLE WELL

Notes:
Note when "Stabilization " has occurred. Stabilization Criteria (achieved after a minimum of three successive readings):
±0.1 for pH
±10 mV for redox
±3% for specific cond.
±10% for DO
<20 NTUs for turbidity
NA for temperature

If stabilization does not occur within 2 hours, contact Site Manager for action.
If well goes dry prior to stabilization, stop, allow well to recharge, and collect sample.

Attachment 4.4

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM

Location: 139 Brampton Road, Savannah, Georgia

Identify Measuring Point (MP): TOP OF CASING
(e.g. Top of Casing)

Well ID: EW-3

Field Sampling Personnel: T. BOYLES

Depth to Screen below MP: 3 of screen (Top) 13 of screen (Bottom)

Pump Intake at (ft. below MP): 6

Purging Device (Pump Type): Peristaltic
(e.g. Dedicated pump, peristaltic pump, bailer, bladder pump, etc.)

Date	Time 24 hr	Depth to Water Below MP ft	Purge Rate mL/min	pH pH units	Spec Cond. mS/cm	Turbidity NTUs	DO Flow cell mg/L	Temp. °C	Redox Potential mV	Cum. Volume Purged gallons	CHEMetrics DO mg/L (low)	Hach Ferrous Iron mg/L	Comments
3/20/13	1100	6.99		4.12	0.384	412	4.40	17.17	16	-			13-6.99 = 6.01
	1107	7.59		4.09	0.373	364	4.34	17.31	10	0.5			6.01 * (.16) = 0.96
	1114	7.66		4.08	0.372	153	3.14	17.56	4	1			0.96 * (3) = 2.88 ~ 3 Well Volumes
	1124	7.74		4.09	0.371	26.1	1.98	18.40	0	2			0.96 * (5) = 4.8 ~ 5 Well Volumes
	1140	7.82		4.08	0.369	19.9	1.38	19.19	-9	3.5			
	1152	7.90		4.10	0.364	15.7	1.34	19.69	-15	4			
	1159	7.95		4.10	0.358	10.6	1.30	20.35	-16	4.5			
	1206	7.97		4.10	0.357	9.6	1.29	20.38	-16	5.0			SAMPLE WELL

Notes:
Note when "Stabilization " has occurred. Stabilization Criteria (achieved after a minimum of three successive readings):

±0.1 for pH
±10 mV for redox
±3% for specific cond.
±10% for DO
<20 NTUs for turbidity
NA for temperature

If stabilization does not occur within 2 hours, contact Site Manager for action.
If well goes dry prior to stabilization, stop, allow well to recharge, and collect sample.

APPENDIX E

PE SUPPORTING DOCUMENTATION

Charles T. Ferry, P.E.
Summary of Hours and Services During the 3rd Semi-Annual Progress Period
139 Brampton Road
Savannah, Georgia
HSI Site No. 10832

Summary of Hours for Voluntary Remediation Program Activities

(1) Project oversight and evluation of March 2013 soil and groundwater data
1 hour invoiced between 3/4/13 and 3/8/13

(2) Prepare April 2013 Semi-Annual VRP Progress Report
5 hours invoiced between 4/15/13 and 4/30/13