

October 5, 2017

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Ms. Jan Trent  
 Hydrogeologist  
 State Remediation Section  
 Site Assessment, Remediation &  
 Revitalization Division  
 Bureau of Land and Waste Management  
 South Carolina Department of Health and  
 Environmental Control  
 2600 Bull Street  
 Columbia, South Carolina 29201

**RECEIVED**

OCT 08 2017

SITE ASSESSMENT,  
 REMEDIATION &  
 REVITALIZATION

**Re: Supplemental Soil Assessment Report Former TCE AST  
 Honea Path Plant (BLWM ID# 400238)  
 415 Brick Mill Road, Honea Path, South Carolina  
 AEM Project No. 1320-1702**

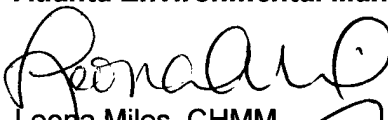
Dear Ms. Trent:

On behalf of Ingersoll Rand, please find enclosed one electronic copy (on computer disc) and one hardcopy of the Supplemental Soil Assessment Report—Former TCE AST located at the Ingersoll Rand facility in Honea Path, South Carolina.

If you need anything else or have any questions, please call us at 404-329-9006.

Sincerely,

**Atlanta Environmental Management, Inc.**



Leona Miles, CHMM  
 Senior Project Manager



Michael Brock  
 Vice President

/krf

cc: Michael Goldstein (via e-mail)  
 Janet Hart (AEM)

Enclosures

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# Supplemental Source Area Assessment Report For the Former TCE AST Tank Pad

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For

OCT 05 2017

**Honea Path Plant  
415 Brick Mill Road  
Honea Path, South Carolina 29654**

SITE ASSESSMENT,  
REMEDICATION &  
REVITALIZATION

Site ID No. 400238

AEM Project No. 1320-1702-3

October 5, 2017

*Prepared For:*

**Ingersoll Rand  
800-E Beaty Street  
Davidson, North Carolina 28036**

*Prepared By:*



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## LIST OF ATTACHMENTS

### ATTACHMENT

- A DHEC Additional Assessment Request, Correspondence Dated March 21, 2017, and DHEC Work Plan Approval Dated June 30, 2017
- B Soil Boring Lithologic Logs
- C Laboratory Analytical Packages

## SECTION 1.0 INTRODUCTION

This *Supplemental Soil Assessment Report—Former TCE AST* has been prepared in response to the South Carolina Department of Health and Environmental Control (DHEC) request for additional soil assessment to further define the extent of impacted soil near a former trichloroethene (TCE) aboveground storage tank (AST) located at the Honea Path Plant (see Attachment A). This soil assessment was performed in accordance with the *Soil Assessment Work Plan Addendum—TCE AST Pad*, dated May 30, 2017. The work plan addendum was approved by DHEC in correspondence dated June 30, 2017 (see Attachment A).

Soil sampling activities were performed on behalf of Ingersoll Rand Company by Atlanta Environmental Management, Inc. (AEM) on July 27, 2017. Soil boring and sampling procedures, sample handling and chain-of-custody procedures, laboratory analytical and quality control procedures, data documentation procedures, waste management procedures, decontamination procedures, and borehole abandonment procedures are discussed in this report.

### 1.1 SITE DESCRIPTION

The Honea Path Plant is located on approximately 466 acres in a semi-rural area typically composed of woods and farm land at 415 Brick Mill Road, Honea Path, South Carolina (see Figure 1). The facility consists of a main manufacturing building, a smaller storage building to the rear of the plant, and a small wastewater treatment plant located northeast of the main plant building. Topographic features include the gullies and intermittent drainage features located on the northeastern, northern, and northwestern property boundaries (see Figure 2).

Two former TCE ASTs have been used at the facility. The original TCE AST was located near the northern corner of the main plant building adjacent to a former methanol AST along the back-fence line within an unpaved area (see Figure 2). The TCE and methanol ASTs were removed in 1989. The TCE AST was then moved to the current AST tank farm until TCE was no longer used at the plant in 1992.

### 1.2 BACKGROUND

TCE was historically used in vapor degreasers at the plant until 1992 when company policy mandated that volatile organic compounds (VOCs) no longer be used at the plant. Raw TCE was received in bulk and stored in an AST. The material was then pumped from the AST to the degreasers via an underground pipeline. The degreasers were equipped with solvent recovery stills, which required periodic cleaning. The still contents were drummed and shipped off site for disposal. Waste TCE was collected in an underground storage tank (UST), which was removed in 1985 (Advent, 1995). The underground waste pipe tested tight during the UST closure and soil samples collected from the UST excavation did not contain detectable TCE.

As noted above, TCE has historically been stored in two ASTs at the plant. The original TCE AST was located adjacent to a former methanol AST along the back-fence line and was not equipped with secondary containment (see Figure 2). No TCE spills were reported or known near the original TCE AST. The underground piping for the original TCE AST was not tested when the AST was moved to the current tank farm in 1989. A methanol release was reported in October 1989 near the former TCE and Methanol ASTs and impacted soil was excavated in this area for on-site treatment using a mobile thermal unit.

TCE and other hazardous constituents were identified in groundwater and surface water at the facility in 1990. The focus of the initial work conducted at the facility was groundwater plume delineation and control as opposed to delineation of potential source areas. This strategy was effective and has resulted in a robust remediation system that was designed to contain known release areas onsite.

Three phases of soil investigation have previously been conducted at the plant. Advent collected soil samples in 1993, Sanborn, Head & Associates (SHA) collected soil samples in 2006, and AEM collected soil samples in 2016. These investigations are briefly summarized below.

Advent investigated nine potential source areas in 1993. Soil boring locations from this investigation (A1SB1, A1SB2, A2SB1, A2SB2, A3SB1, A3SB2, A4SB1, A5SB1, A5SB2, A6SB1, A7SB1, A7SB2, A8SB1, and A9SB1) are shown on Figure 3. One boring soil sample from each of the 9 potential source areas was submitted for laboratory analyses by Advent (Advent, 1995). Most of the samples were collected from a depth of two to three feet below land surface (bls). The only VOC reported in the soil samples was methylene chloride, which is a common laboratory sample contaminant.

As part of the Advent investigation, soil boring sample A4SB1 was collected near the former TCE and Methanol ASTs. Methylene chloride was the only VOC present in this soil sample. As noted above, soil impacted by a methanol release in this area was excavated and treated on-site using a mobile thermal unit in 1989.

In 2006, SHA collected additional soil samples as part of a Phase I/II assessment (SHA, 2006). Soil boring locations from this investigation (SH-01, -02, -03, -04, and SB-01 through SB-09) are shown on Figure 3. Three soil borings (SB-04, -05, and -06) were completed near the current AST tank farm. TCE was reported at 93 milligrams per kilogram (mg/kg) in the 10- to 12-foot (ft) sample collected from soil boring SB-05. This concentration exceeds both the U.S. Environmental Protection Agency (EPA) Industrial Soil Screening Level (SSL), which is 6,000 µg/kg, and the Maximum Contaminant Level (MCL) risk-based SSL, which is 0.0018 mg/kg. No VOCs were reported in soil samples collected from SB-04 and SB-06 (see Figure 3).

In October 2016, AEM collected additional soil samples to better assess soil in the upgradient plume areas near the plant (AEM, 2016). Soil boring locations from this investigation (B-01, through B-06) are shown on Figure 3. TCE was reported at concentrations ranging up to

57 mg/kg in the 10-ft sample collected from boring B-01 located 15 ft southwest of SHA boring SB-05 (see Figures 3 and 4).

Based on the results of the October 2016 soil sampling effort, DHEC requested that additional soil assessment be conducted in correspondence dated March 21, 2017 (see Attachment A). In response, Ingersoll Rand submitted a *Soil Assessment Work Plan Addendum—TCE AST Pad* (dated May 30, 2017) for DHEC's approval. DHEC approved the Work Plan on June 30, 2017 (see Attachment A). The results of this soil assessment, performed in July 2017, are presented in the following sections.

## SECTION 2.0 WORK PERFORMED

Field activities were performed under the supervision of an AEM South Carolina–Licensed Professional Geologist. A GeoLab, Inc. South Carolina–Licensed Driller installed the borings and Analytical Environmental Services (AES), a South Carolina–Certified Laboratory, analyzed the soil samples.

The soil borings were installed and sampled in accordance with current U.S. EPA Region 4 Science and Ecosystem Support Division (SESD) Guidance and Operating Procedures (EPA, 2014b). Per DHEC regulations, an application to complete the soil borings was submitted to DHEC prior to implementing the field effort. The South Carolina utilities protection center (SC 811) was notified within 72 hours of scheduled drilling activities to obtain a work permit and a private utility locate company cleared the proposed drilling locations. Proposed drilling locations were repositioned, as necessary, due to the proximity to identified underground utilities. Field sampling personnel were trained geologists with extensive soil sampling experience.

On July 27, 2017, AEM collected 41 direct push technology (DPT) soil samples from seven soil borings (B-07 through B-13) completed to a depth of approximately 25 ft bls near the former TCE ASTs (see Figure 4). Each soil sample was field screened for the presence of VOC vapors using a photoionization detector (PID) as described in Section 2.1.3 and select soil samples were submitted for laboratory analyses. The rationale for selecting soil boring locations is outlined in Table 1 and is based on historical soil sample data (see Figure 3).

### 2.1 BORING INSTALLATION PROCEDURES

The soil borings were installed in accordance with SESD Operating Procedure SESDPROC-300-R3, *Soil Sampling*, dated August 21, 2014 (EPA, 2014b). Soil borings were advanced using a Geoprobe® track DPT rig. Soil lithologic boring logs are provided in Attachment B. Lithologic cross-sections were produced for the area. The generally east-west and north-south trending cross-section traverses are depicted in Figure 5 while individual cross sections are provided as Figures 6 and 7 (perpendicular to groundwater flow) and Figures 8 and 9 (parallel to groundwater flow).

#### 2.1.1 Boring Installation

The DPT track rig, in conjunction with a Macro-Core® soil sampler, was used to advance each borehole and to collect subsurface soil samples. Dedicated cellulose acetate butyrate (CAB) liners were used inside the Macro-Core sample-spoons to extract soil core samples. CAB liners are typically 1-inch diameter and 5-ft long. The Macro-Core soil sampler allows discrete (grab) soil samples to be collected as required by SESD Operating Procedure guidelines (EPA, 2014a). For safety purposes, the upper 5 ft of each of the seven soil borings were hand augered using pre-cleaned stainless steel augers. A different decontaminated auger



bucket was used to collect the 1 foot soil sample from each boring. The remaining sample intervals: 5 ft, 10 ft, 15 ft, 20 ft, and 25 ft were extracted from the CAB liners.

### 2.1.2 Concrete Coring

The pavement (asphalt/concrete) was pre-drilled using a 4-inch-diameter Geoprobe carbide-tipped drill bit at B-07, B-09, and B-10 to access the residuum beneath the pavement. Where encountered, the surface paving was less than 0.5-ft thick. The surface paving was patched using similar materials (concrete/asphalt) to the original paving when the borings were abandoned (see Section 2.8).

### 2.1.3 Field Soil Screening

Soil recovered from each CAB liner was field screened for VOC vapors using a MiniRAE<sup>®</sup> portable Model 3000 PID. A portion of each soil sample was placed in a sealed plastic sample bag and the head-space within the bag was tested for organic vapors within 15 to 20 minutes of the sample collection. Organic vapor concentrations were measured by puncturing the sample bag with the tip of the PID probe as the PID probe was inserted into the bag. The highest PID measurement in parts per million (ppm) was recorded as the soil vapor concentration. The PID readings are summarized in the soil boring logs for each sample point (see Attachment B). The PID was field calibrated prior to being used on July 27, 2017 in accordance with the manufacturer's specifications. As reported in the soil boring logs, no notable VOC concentrations were measured.

## 2.2 SOIL SAMPLING PROCEDURES

Soil samples were collected in accordance with SESD Operating Procedure SESDPROC-300-R3, *Soil Sampling*, dated August 21, 2014 (EPA, 2014b). Each soil boring was initially advanced from land surface to a depth of approximately 5 ft bls using stainless steel hand augers. The 1 ft sample from each boring was collected with hand augers. A CAB-lined Macro-Core sampler was then used to collect discrete DPT soil samples at a starting interval of 5-ft bls. Each borehole was advanced to approximately 25 ft bls.

Soil samples were collected at the following intervals: 0–1 ft bls, 5–6 ft bls, 10-11 ft bls, 15-16 ft bls, 20–21 ft bls, and 24–25 ft bls. Some variation in sample intervals occurred due to poor sample recovery or the presence of groundwater. Soil samples collected from below the water table were not submitted for laboratory analysis. The following soil samples were initially submitted for laboratory analysis while others were held for possible analysis upon receiving the initial sample results:

- **B-8:** 5- and 10-ft samples to define the lateral extent of VOC impacted soil east of soil borings SB-5 and B-01, which previously contained TCE concentrations at 10–12 ft bls.
- **B-9:** 5-, 10-, and 15-ft samples to define the lateral and vertical extent of VOC impacted soil north of borings SB-5 and B-01 near the former TCE AST.

- **B-10:** 5- and 10-ft samples to define the lateral extent of VOC impacted soil southwest of borings SB-5 and B-01.
- **B-11:** 5-, 10-, and 15-ft samples to define the lateral and vertical extent of VOC impacted soil within the former spent TCE drum storage area and west of borings SB-5 and B-01.
- **B-12:** 5- and 10-foot samples to define the lateral extent of VOC impacted soil south of borings SB-5 and B-01.
- **B-13:** 5- and 10-foot samples to define the lateral extent of VOC impacted soil north-northeast of borings SB-5 and B-01.

Boring B-12 defined the lateral extent of VOCs south of SB-5 and B-01 because no VOCs were reported in soil samples collected from boring B-12. Therefore, no soil samples were submitted for analysis from boring B-7.

Soil samples (Drum #1 and Drum #2) were collected from the drummed soil cuttings, investigation derived waste (IDW). Drums were labeled as non-hazardous pending the laboratory characterization.

Soil samples were collected in pre-labeled, laboratory-supplied glass containers (preserved 40 milliliter [mL] septum-capped vials and unpreserved 4-ounce jars). A dedicated syringe was used to transfer 3 milliliters (ml) of soil to each sample vial. Sample preservatives included sodium bisulfate (in two vials) and methanol (in one vial). The 4-ounce glass jar in each sample set was unpreserved and used to determine the sample percent moisture. The samples were stored in iced coolers pending transport, under chain-of custody (CoC), for delivery to the laboratory.

### 2.3 QUALITY ASSURANCE/QUALITY CONTROL

Quality Control (QC) procedures were conducted in accordance with U.S. EPA SESD Operating Procedure SESDPROC-011-R5, *Field Sampling Quality Control*, dated April 16, 2017 (EPA, 2013a). The QC samples included: trip blanks, a duplicate sample, laboratory method blanks, method blank spikes and method blank duplicates, and surrogates. The reported QC analyses were included with the individual laboratory data packages (see Attachment C).

The duplicate sample collected from the 5-ft sample interval of soil boring B-12, designated with the abbreviation “DUP,” contained no variations in VOC concentrations between the original and duplicate samples, thereby indicating laboratory sample result reproducibility.

The laboratory-supplied trip blanks, which accompanied the VOC samples, contained no reportable VOCs; thus, there is no indication of cross-contamination. Laboratory QC sample (method blank duplicates, and surrogates) results were within acceptable control limits.

Laboratory analyses were conducted in a manner that ensures that all data and resulting decisions were technically sound, reliable, statistically valid, and properly documented. The laboratory quality assurance (QA)/QC program includes analysis for precision, accuracy,

completeness, and comparability as specified by EPA. The laboratory abides by a comprehensive QA program based on the program outlined in the U.S. EPA's *Handbook for Analytical Quality Control in Water and Wastewater Laboratories* (EPA, 1979). A copy of the complete QA/QC program is available through the laboratory.

## **2.4 SAMPLE ANALYTICAL PROCEDURES**

Soil and QC samples were hand-delivered under appropriate chain-of-custody to Analytical Environmental Services (AES) of Atlanta, Georgia. Sample analyses were performed by AES in accordance with current U.S. EPA SW846 laboratory protocols. Soil boring and QC samples will be submitted for VOC analyses by method SW846-8260B. Drummed soil cutting samples were analyzed for VOCs using the toxicity characteristic leaching procedure (TCLP) by Method SW846-1311/8260B.

## **2.5 EQUIPMENT DECONTAMINATION PROCEDURES**

Stainless steel, non-dedicated DPT soil sampling equipment was decontaminated in the field in accordance with SESD Operating Procedure SESDPROC-205-R3, *Field Equipment Cleaning and Decontamination*, dated December 18, 2015 (EPA, 2015). Sample rods, spoons, and drive-points were scrubbed with Liqui-Nox<sup>®</sup> and rinsed with distilled water. The remaining dedicated sampling equipment (CAB liners, soil-core catchers, tubing, etc.) did not require cleaning. Likewise, clean stainless steel hand augers were brought to the site. The hand augers were pre-cleaned by scrubbing with Liqui-Nox and rinsing with distilled water and laboratory grade deionized (DI) water. Once dry, the auger buckets were wrapped in aluminum foil for storage and transport to the site.

## **2.6 SAMPLE HANDLING AND FIELD DOCUMENTATION PROCEDURES**

Information obtained in the field was recorded in bound, non-perforated field notebooks in accordance with SESD Operating Procedure, SESDPROC-010-R5, *Logbooks*, dated May 30, 2013 (EPA, 2013). Field documentation included the following: date, time, and location of activity; equipment used; personnel present; and weather conditions. Recorded sampling data included the following: sample locations, sample depths, sample recovery, sample PID results, and sample containers and preservatives. Soil lithologic descriptions were also documented in the field logbooks.

Samples were collected in appropriate laboratory glass containers, which in turn were placed in small plastic bags to prevent cross-contamination and stored in iced coolers for hand delivery to the laboratory. CoC documentation accompanied the sample coolers to the laboratory.

## **2.7 INVESTIGATION-DERIVED WASTE MANAGEMENT**

The storage and handling of IDW was conducted in accordance with SESD Operating Procedure, SESDPROC-202-R3, *Management of Investigation Derived Waste*, dated July 3,

2014 (EPA, 2014a). DPT drill cuttings (soil), generated as part of this field investigation, were contained in 55-gallon drums (Drum #1 and Drum #2) and sampled for TCLP VOC analysis (see Sections 2.2 and 2.4) for later disposal in accordance with U.S. EPA regulatory guidelines. No VOCs were reported in the IDW and the soil was spread on the ground.

General waste (CAB liners, latex gloves, plastic sheeting, etc.) was collected, bagged, and placed in dumpsters at the facility for disposal.

## **2.8 BOREHOLE ABANDONMENT PROCEDURES**

Soil boring abandonment procedures were completed in accordance with U.S. EPA–approved guidance documents. Soil borings were grouted with a neat Portland Type I cement slurry. The core holes within the concrete and asphalt paving were patched with similar material found at the surface.

## SECTION 3.0 FINDINGS

### 3.1 SOIL ANALYTICAL RESULTS

Soil sample results from the July 27, 2017 are included in Attachment C and summarized in Table 2 and Figure 4. Historical VOC soil sample concentrations from 1993, 2006, and 2016 collected in the area are presented in map view (see Figure 4) and on cross sections (see Figures 6, 7, 8, and 9).

In summary, VOC concentrations were below laboratory reporting limits in the soil samples collected on July 27, 2017 (see Table 2). TCLP VOC concentrations were also below laboratory reporting limits in the IDW soil samples; thus, the soil cuttings are non-hazardous and were spread on the ground.

### 3.2 VOC ASSESSMENT

Borings -07 through -13 were installed to assess the extent of VOCs previously identified in borings B-01 and SB-05 located 14 to 30 ft northeast of the AST farm. A TCE AST was operated in the tank farm from 1989 to 1993. Prior to 1989, a TCE and a methanol AST were located approximately 60 ft northeast of the AST farm. TCE was pumped in underground pipelines from the TCE ASTs to the facility building.

VOC concentrations were below laboratory reporting limits in the soil samples collected on July 27, 2017 (see Table 2). The lateral extent of VOCs identified in B-01 and SB-05 were defined by borings installed in July 2017 and by previously installed borings (see Table 2 and Figures 4 and 8). Soil samples collected from these borings (B-8, -9, -10, -11, 12, -13, and SB-06) did not contain VOCs above laboratory reporting limits. VOCs were not reported in soil boring B-9 installed near the original TCE AST (see Figure 4).

The soil sample data collected to date has not identified a TCE source area near the original TCE AST. Any historical releases near the original AST were likely remediated as part of the methanol remediation when methanol impacted soil was excavated and treated with a thermal unit on site in October 1989. Soil sample data indicate that TCE identified in soil samples collected from B-01 and SB-05 likely came from the original TCE AST underground piping or possibly later from the TCE AST located in the tank farm.

Thus, fifteen soil samples collected from six soil borings were analyzed for VOCs in July 2017. These sample results confirm that one source area with elevated VOC concentrations (57 and 93 mg/kg) has been identified by borings B-01 and SB-05 northeast of the AST tank farm and that the lateral and vertical extent of soil impacts has been identified by these soil samples. Groundwater from this source area migrates to the northwest towards recovery well MW-19A.

## SECTION 4.0 CONCLUSIONS

The following conclusions are based on the findings of this limited source area soil sampling effort:

- Fifteen soil samples collected from six soil borings were analyzed for VOCs in July 2017 to assess the lateral and vertical extent of VOCs previously identified in soil borings B-01 and SB-05. No VOCs were identified in these soil samples above laboratory reporting limits.
- These sample results confirm that one source area with elevated VOC concentrations (57 and 93 mg/kg) has been identified by borings B-01 and SB-05 northeast of the AST tank farm and that the lateral and vertical extent of soil impacts has been identified by these soil samples. Groundwater from this source area migrates to the northwest towards recovery well MW-19A.
- DHEC requested that a remedial alternatives evaluation/feasibility study be conducted in correspondence dated February 24, 2016. Sufficient data was not available at that time to complete a feasibility study. Now that a source area has been identified and the lateral and vertical extent of the source area defined, a remedial alternatives evaluation/feasibility study can be conducted. Upon DHEC approval, Ingersoll Rand and AEM will prepare this study.

## SECTION 5.0 REFERENCES

- Advent. 1995. *Site Assessment Report. The Torrington Company, Honea Path, South Carolina*. May 15, 1995.
- Atlanta Environmental Management, Inc. 2016. *Limited Source Area Assessment-Honea Path Plant*. Honea Path, South Carolina. November 22, 2016.
- . 2017. *Site Assessment Work Plan Addendum TCE AST Pad*. Honea Path Plant, Honea Path, South Carolina. Ingersoll Rand. May 30, 2017.
- Sanborn, Head & Associates. 2006. *Phase II Environmental Site Assessment*. Timken US Corporation, Honea Path, South Carolina. August 4, 2006.
- U.S. EPA Region 4. 1979. *U.S. EPA Handbook for Analytical Quality Control in Water and Wastewater Laboratories*. March 1979.
- . 2013. *U.S. EPA Region 4 SESD Field Branch Quality System and Technical Procedures — Logbooks* (SESDPROC-010-R5), dated May 30, 2013.
- . 2014a. *U.S. EPA Region 4 SESD Field Branch Quality System and Technical Procedures —Management of Investigation Derived Waste* (SESDPROC-202-R3), dated July 3, 2014.
- . 2014b. *U.S. EPA Region 4 SESD Field Branch Quality System and Technical Procedures —Soil Sampling* (SESDPROC-300-R3), dated August 21, 2014.
- . 2015. *U.S. EPA Region 4 SESD Field Branch Quality System and Technical Procedures—Field Equipment Cleaning and Decontamination* (SESDPROC-205-R3), dated December 18, 2015.
- . 2017. *U.S. EPA Region 4 SESD Field Branch Quality System and Technical Procedures—Field Sampling Quality Control* (SESDPROC-011-R5), dated April 16, 2017.

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# TABLES



Table 1. Soil Boring Investigation Summary, July 2017  
Honea Path Plant, Honea Path, South Carolina

Investigation Area Boring	July 2017 Sample Rationale	Soil Samples for Laboratory Analysis
B-7; located south of SB-05 and B-01 and south of proposed boring B-12	To define the lateral extent of VOCs to the south if boring B-7 contains VOCs	Optional 0-1 and 5 foot
B-8; located east of SB-05 and B-01	To define the lateral extent of VOCs to the east	5 and 10 foot
B-9; located north of SB-05 and B-01	To define the lateral extent of VOCs to the north	5, 10, and 15 foot
B-10; located southwest of SB-05 and B-01 and north of SH-01	To define the lateral and vertical extent of VOCs to the southwest. Historical sample SH-01 located to the south did not contain VOCs at 10-11 feet	5 and 10 foot
B-11; located west of SB-05 and B-01 and north of B-10	To define the lateral extent to the west	5, 10, and 15 foot
B-12; south of Tank pit and SB-05 and B-01	To define the lateral and vertical extent of VOCs to the south. Historical sample SB-06 to the east of the former tank pit did not contain VOCs at 11.3-13 feet and defines the lateral extent of VOCs	5 and 10 foot
B-13; located northeast of SB-05 and B-01 and west of the transformer station	Sidegradient to potential source area	Optional 0-1 and 5 foot

Table 2. Summary of Volatile Organic Compounds in Soil, July 2017  
Honea Path Plant, 415 Brick Mill Road, Honea Path, South Carolina

VOCs (mg/kg)	Region IX RSLs <sup>1</sup>	B-8		B-9		
		5'	10'	5'	10'	15'
<b>Chlorinated VOCs</b>						
Tetrachloroethene	100	<0.0055	<0.0053	<0.0056	<0.0056	<0.0059
Trichloroethene	6	<0.0055	<0.0053	<0.0056	<0.0056	<0.0059
cis-1,2-Dichloroethene	2,300	<0.0055	<0.0053	<0.0056	<0.0056	<0.0059
<b>Nonchlorinated VOCs</b>						
Naphthalene	17	<0.0055	<0.0053	<0.0056	<0.0056	<0.0059
n-Butylbenzene	5,800	<0.0055	<0.0053	<0.0056	<0.0056	<0.0059
sec-Butylbenzene	12,000	<0.0055	<0.0053	<0.0056	<0.0056	<0.0059
Hexachlorobutadiene	5.3	<0.0055	<0.0053	<0.0056	<0.0056	<0.0059
1,2,3-Trichlorobenzene	930	<0.0055	<0.0053	<0.0056	<0.0056	<0.0059
1,2,4-Trichlorobenzene	110	<0.0055	<0.0053	<0.0056	<0.0056	<0.0059
<b>Date</b>		<b>7/27/2017</b>		<b>7/27/2017</b>		

Notes:

mg/kg- milligrams per kilogram

<sup>1</sup>Region IX RSLs-EPA Region IX Industrial  
Regional Screening Levels, dated May 2016

Table 2. Summary of Volatile Organic Compounds in Soil, July 2017  
Honea Path Plant, 415 Brick Mill Road, Honea Path, South Carolina

VOCs (mg/kg)	Region IX RSLs <sup>1</sup>	B-10		B-11		
		5'	10'	5'	10'	15'
<b>Chlorinated VOCs</b>						
Tetrachloroethene	100	<0.0056	<0.0063	<0.0053	<0.0070	<0.0060
Trichloroethene	6	<0.0056	<0.0063	<0.0053	<0.0070	<0.0060
cis-1,2-Dichloroethene	2,300	<0.0056	<0.0063	<0.0053	<0.0070	<0.0060
<b>Nonchlorinated VOCs</b>						
Naphthalene	17	<0.0056	<0.0063	<0.0053	<0.0070	<0.0060
n-Butylbenzene	5,800	<0.0056	<0.0063	<0.0053	<0.0070	<0.0060
sec-Butylbenzene	12,000	<0.0056	<0.0063	<0.0053	<0.0070	<0.0060
Hexachlorobutadiene	5.3	<0.0056	<0.0063	<0.0053	<0.0070	<0.0060
1,2,3-Trichlorobenzene	930	<0.0056	<0.0063	<0.0053	<0.0070	<0.0060
1,2,4-Trichlorobenzene	110	<0.0056	<0.0063	<0.0053	<0.0070	<0.0060
<b>Date</b>		<b>7/27/2017</b>		<b>7/27/2017</b>		

Notes:

mg/kg- milligrams per kilogram

<sup>1</sup>Region IX RSLs-EPA Region IX Industrial  
Regional Screening Levels, dated May 2016

Table 2. Summary of Volatile Organic Compounds in Soil, July 2017  
Honea Path Plant, 415 Brick Mill Road, Honea Path, South Carolina

VOCs (mg/kg)	Region IX RSLs <sup>1</sup>	B-12			B-13		
		5'	5' (DUP)	10'	5'	10'	15'
<b>Chlorinated VOCs</b>							
Tetrachloroethene	100	<0.0060	<0.0053	<0.0057	<0.0052	<0.0061	<0.0048
Trichloroethene	6	<0.0060	<0.0053	<0.0057	<0.0052	<0.0061	<0.0048
cis-1,2-Dichloroethene	2,300	<0.0060	<0.0053	<0.0057	<0.0052	<0.0061	<0.0048
<b>Nonchlorinated VOCs</b>							
Naphthalene	17	<0.0060	<0.0053	<0.0057	<0.0052	<0.0061	<0.0048
n-Butylbenzene	5,800	<0.0060	<0.0053	<0.0057	<0.0052	<0.0061	<0.0048
sec-Butylbenzene	12,000	<0.0060	<0.0053	<0.0057	<0.0052	<0.0061	<0.0048
Hexachlorobutadiene	5.3	<0.0060	<0.0053	<0.0057	<0.0052	<0.0061	<0.0048
1,2,3-Trichlorobenzene	930	<0.0060	<0.0053	<0.0057	<0.0052	<0.0061	<0.0048
1,2,4-Trichlorobenzene	110	<0.0060	<0.0053	<0.0057	<0.0052	<0.0061	<0.0048
<b>Date</b>		<b>7/27/2017</b>			<b>7/27/2017</b>		

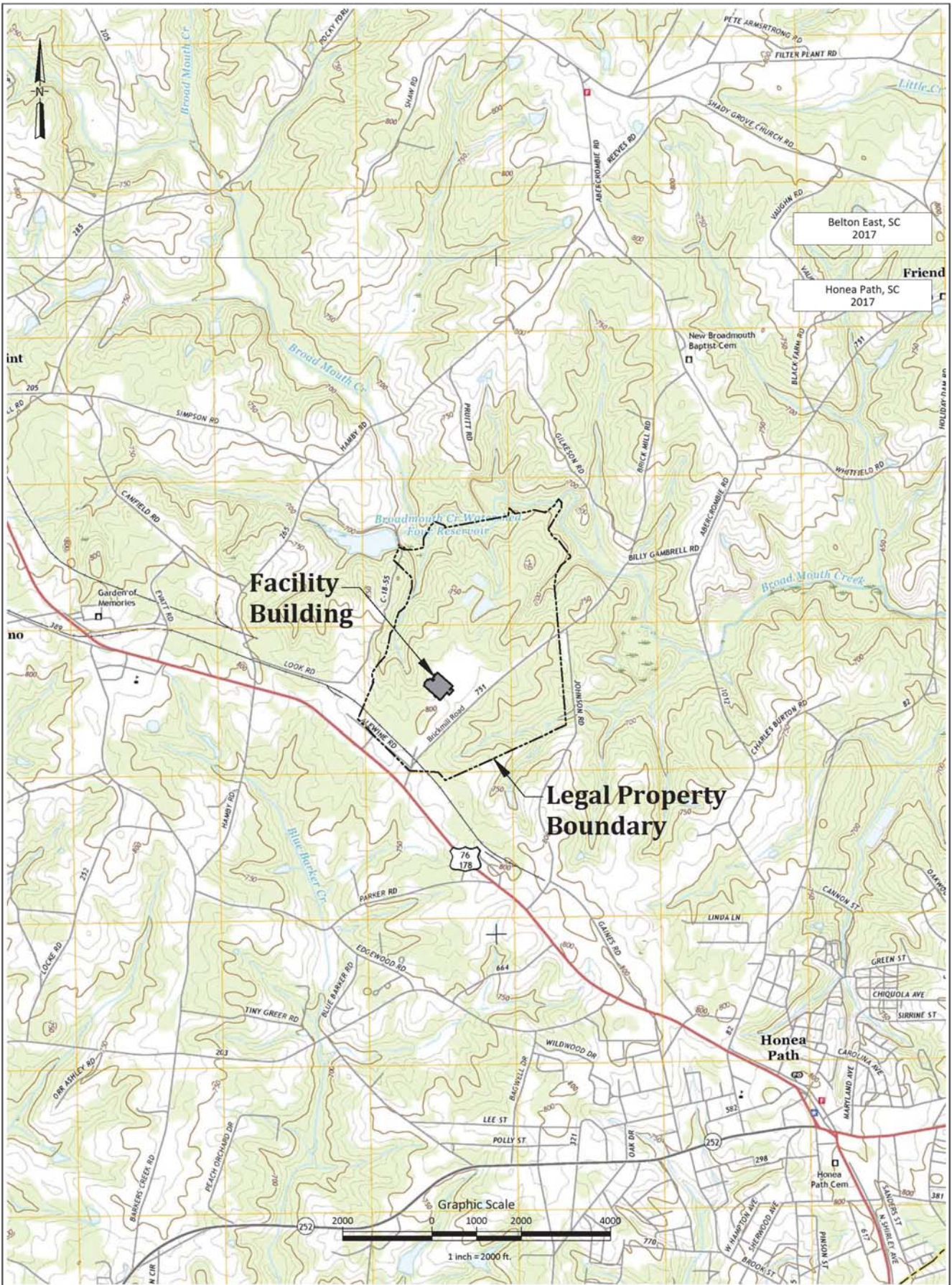
Notes:

mg/kg- milligrams per kilogram

<sup>1</sup>Region IX RSLs-EPA Region IX Industrial  
Regional Screening Levels, dated May 2016

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# FIGURES



**AEM**  
**Atlanta Environmental Management, Inc.**  
 Environmental Consulting, Engineering, Hydrogeologic Services  
 2580 Northeast Expressway • Atlanta, Georgia 30345  
 Phone: 404.329.9006 • Fax: 404.329.2057

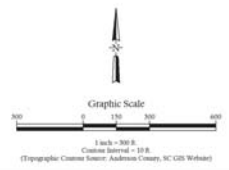
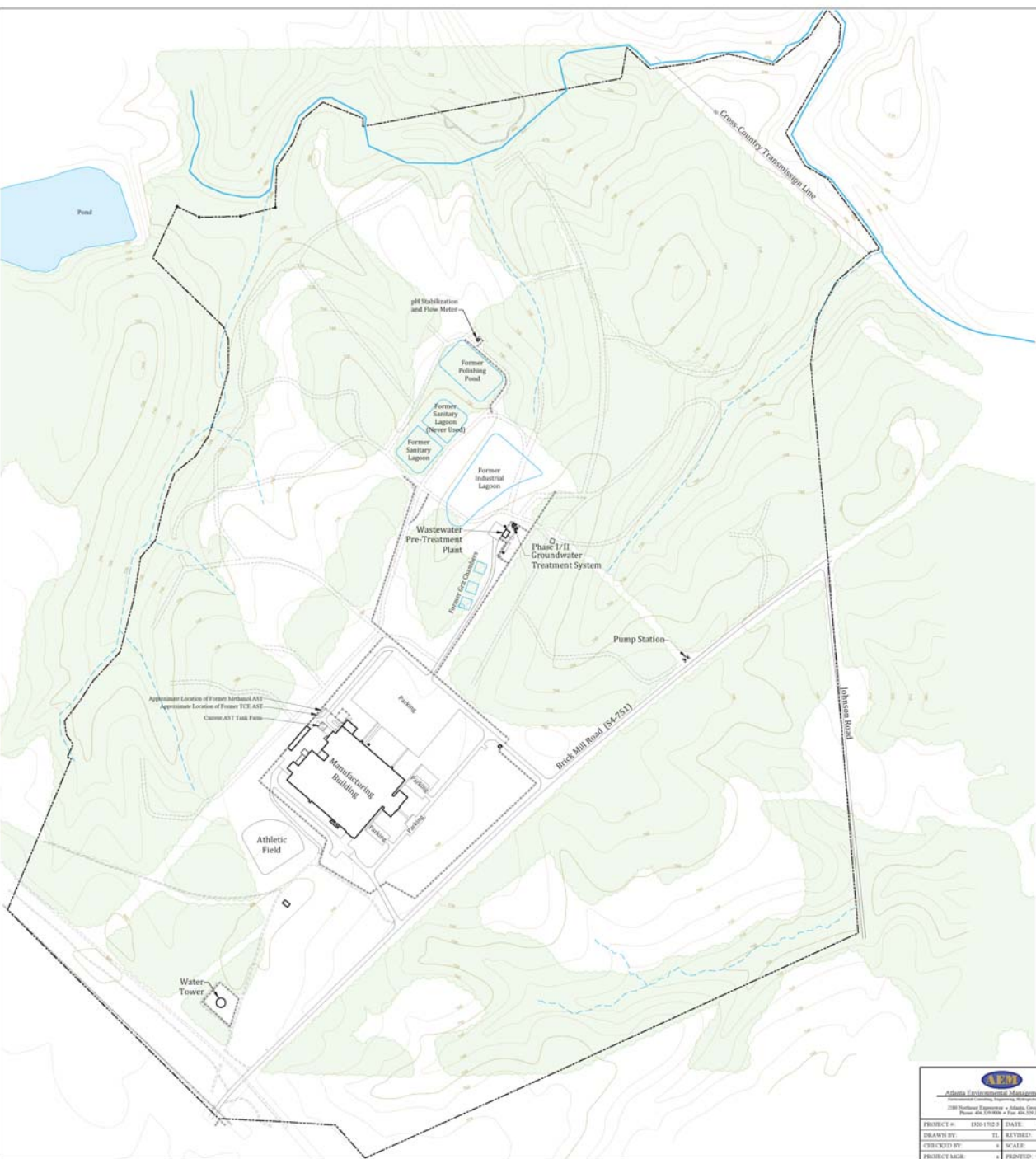
Honea Path Plant  
 415 Brick Mill Road  
 Honea Path, South Carolina

PROJECT #:	1320-1702-03	DATE:	August 23, 2017
DRAWN BY:	TL	REVISED:	----
CHECKED BY:	LM	SCALE:	1" = 2000'
PROJECT MGR:	TG	PRINTED:	9/1/2017 1:40 PM

Facility Location

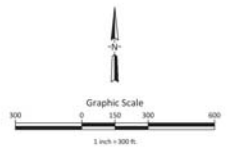
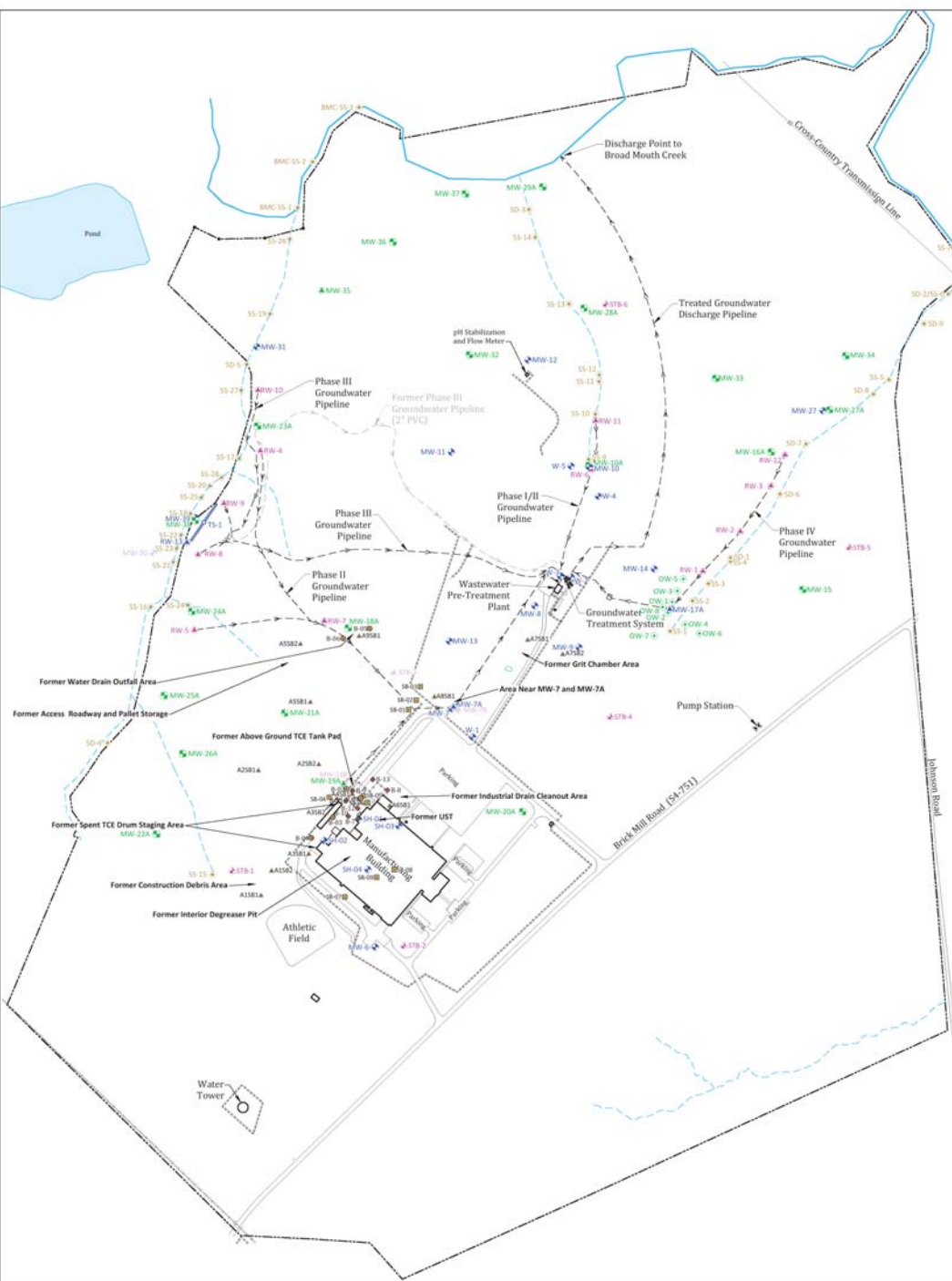
Figure  
**1**

- Legend**
- - - Site Boundary
  - Topographic Contour (ft. AMSL)  
Contour Interval = 50 ft.
  - Topographic Contour (ft. AMSL)  
Contour Interval = 10 ft.
  - - - Fenceline
  - - - - - Creek
  - - - - - Intermittent Stream
  - - - - - Railroad
  - - - - - Trail



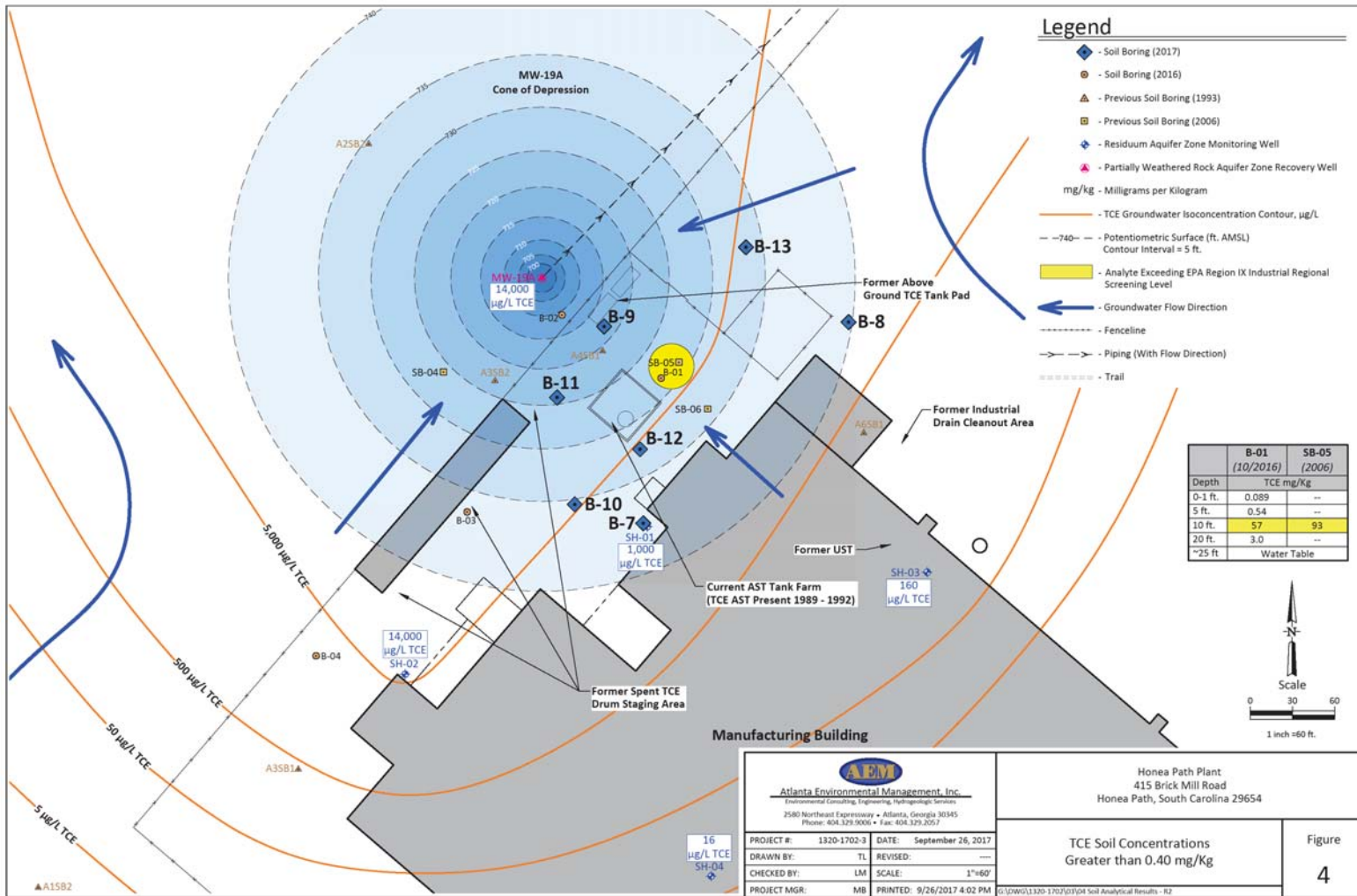
 <b>Atlanta Environmental Planning, Inc.</b> <small>Environmental Planning, Consulting, and Engineering Services          2300 Northlake Expressway • Atlanta, Georgia 30328          Phone: 404.251.9999 • Fax: 404.251.2020</small>		Homea Path Plant 415 Brick Mill Road Homea Path, South Carolina	
PROJECT #	1220-110-2	DATE	September 1, 2017
DRAWN BY	TL	REVISED	---
CHECKED BY	J	SCALE	1"=500'
PROJECT NO.	4	PRINTED	9/1/2017 1:40 PM
Site Plan		Figure <b>2</b>	

- Legend**
- ◆ Soil Boring (2017)
  - Previous Soil Boring (2016)
  - ▲ Previous Soil Boring (1993)
  - Previous Soil Boring (2006)
  - ◆ Residuum Aquifer Zone Monitoring Well
  - Residuum Aquifer Zone Monitoring Well (Abandoned) (MW-30 Abandoned on February 28, 2012)
  - ▲ Residuum Aquifer Zone Recovery Well
  - ◆ Partially Weathered Rock Aquifer Zone Monitoring Well
  - Partially Weathered Rock Aquifer Zone Observation Well
  - ▲ Partially Weathered Rock Aquifer Zone Recovery Well
  - ◆ Bedrock Aquifer Zone Monitoring Well (Former Soil Test Boring)
  - ▲ Recovery Well (Screened Across Three Zones)
  - ◆ Surface Water Sample Location
  - Site Boundary
  - - - Fenceline
  - Creek
  - - - Intermittent Stream
  - Piping (With Flow Direction)
  - Railroad

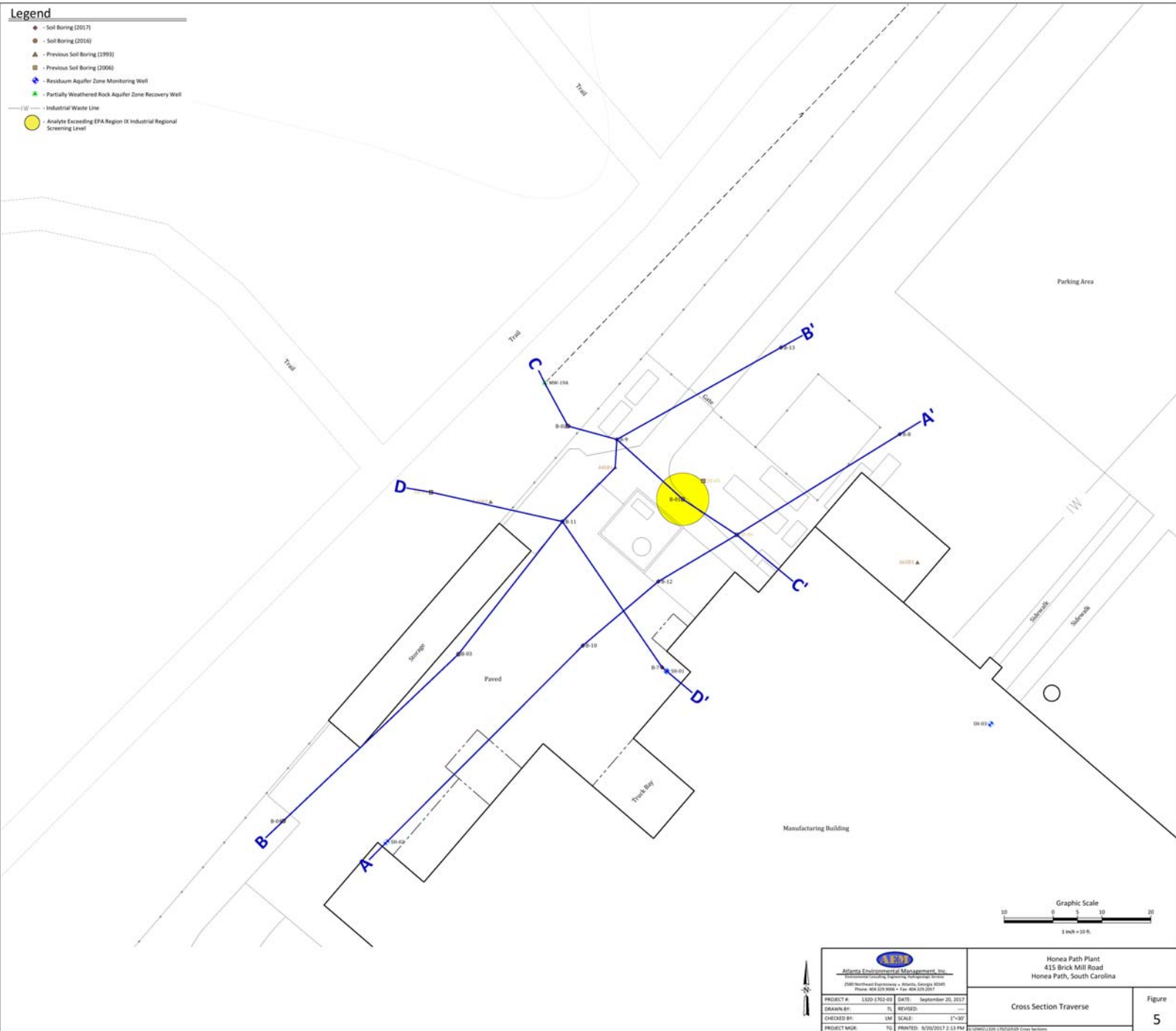


<p>Atlanta Environmental Management, Inc.  <small>Environmental Consulting, Engineering, and Construction</small>        2080 Northchase Expressway • Atlanta, Georgia 30328        Phone: 404.251.9000 • Fax: 404.251.9001</p>		Honea Path Plant 415 Brick Mill Road Honea Path, South Carolina	
PROJECT #	ES20-1762-3	DATE	August 25, 2017
DRAWN BY	TS	REVISED	---
CHECKED BY	LM	SCALE	1"=300'
PROJECT MGR	LM	PRINTED	8/12/2017 1:38 PM
Historical Soil Boring Locations		Figure <b>3</b>	

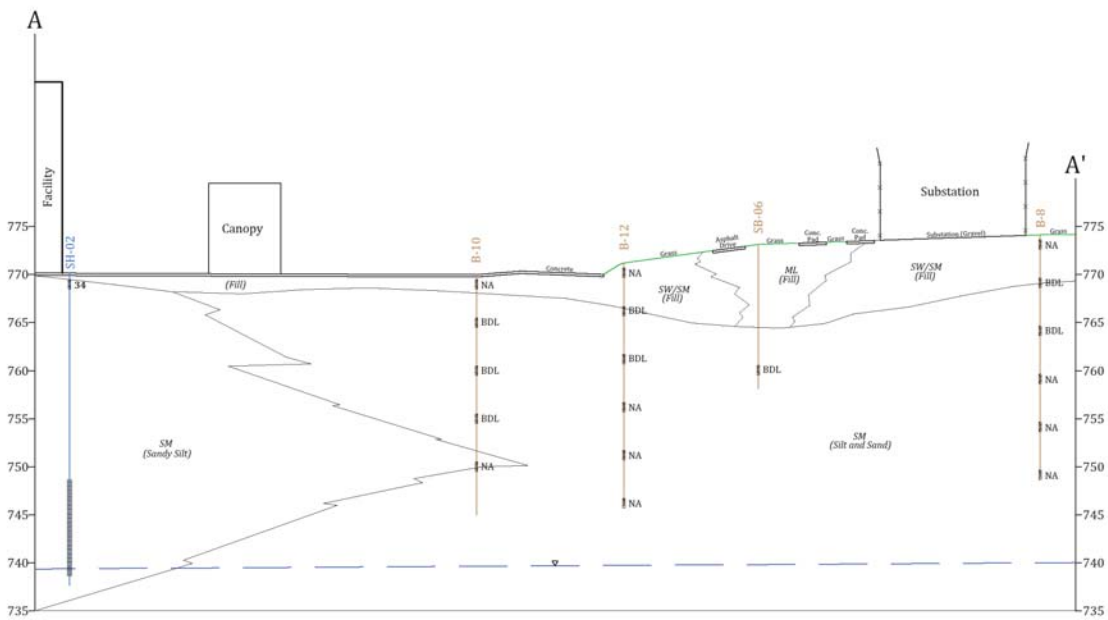




- Legend**
- - Soil Boring (2017)
  - - Soil Boring (2016)
  - ▲ - Previous Soil Boring (1993)
  - - Previous Soil Boring (2006)
  - ◆ - Residual Aquifer Zone Monitoring Well
  - ◆ - Partially Weathered Rock Aquifer Zone Recovery Well
  - - Industrial Waste Line
  - - Analyte Exceeding EPA Region IX Industrial Regional Screening Level



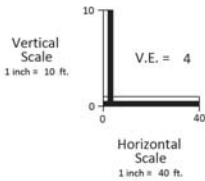
<p>Atlanta Environmental Management, Inc.          Environmental Consulting, Engineering, and Remediation Services          2080 Northwest Expressway • Atlanta, Georgia 30341          Phone: 404.252.8000 • Fax: 404.252.2007</p>		Honea Path Plant 415 Brick Mill Road Honea Path, South Carolina	
		Cross Section Traverse	
PROJECT # 1302-1702-03 DRAWN BY: TS CHECKED BY: DM PROJECT MGR: TS	DATE: September 20, 2017 REVISED: --- SCALE: 1"=30' PRINTED: 8/20/2017 2:13 PM	Figure <b>5</b>	




**LEGEND**

- µg/Kg - Micrograms per Kilogram
- 0.034 - Trichloroethene Concentration, µg/Kg
- BDL - Below Detection Limit
- NA - Not Analyzed
- CL - Silty Sandy CLAY
- ML - Clayey SILT to Silt with trace Sand
- SM - Silty SAND to very Sandy SILT
- SW - Fine-Coarse SAND, with trace Silt
- Estimated Water Table

- Soil Boring
- Soil Sample Interval
- Groundwater Monitoring Well
- Screened Interval



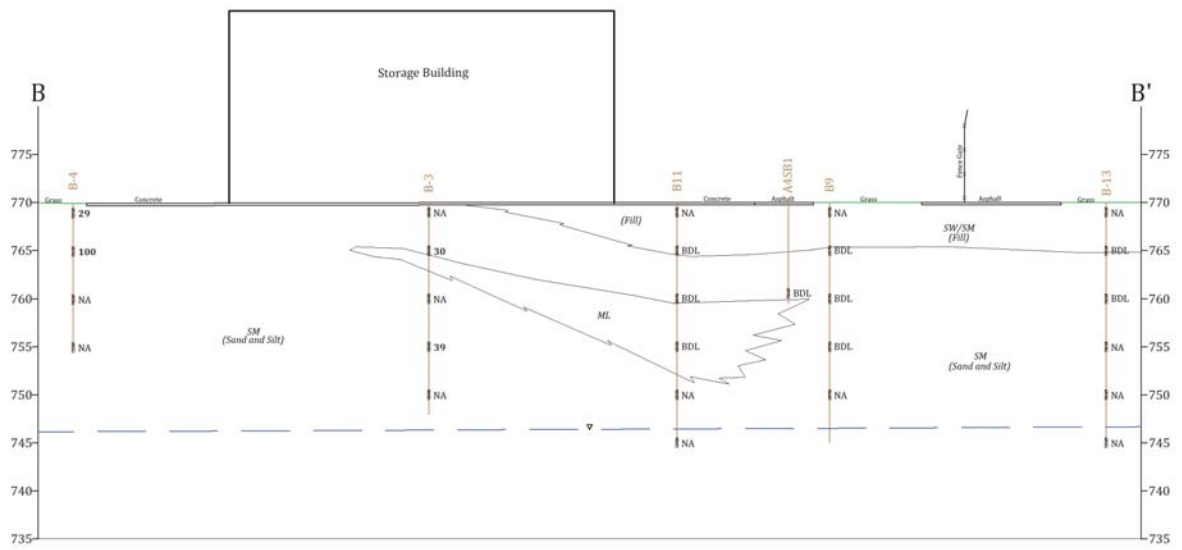
 <b>Atlanta Environmental Management, Inc.</b> <small>Environmental Consulting, Engineering, Hydrogeologic Services</small> 2580 Northeast Expressway • Atlanta, Georgia 30345 Phone: 404.329.9000 • Fax: 404.329.2557			
PROJECT #:	1320-1702-03	DATE:	August 25, 2017
DRAWN BY:	TL	REVISED:	----
CHECKED BY:	LM	SCALE:	As Shown
PROJECT MGR:	TG	PRINTED:	9/1/2017 1:28 PM

Honea Path Plant  
 415 Brick Mill Road  
 Honea Path, South Carolina

**Cross Section A - A'**  
 Approximately Perpendicular  
 to Groundwater Flow Direction

Figure  
**6**

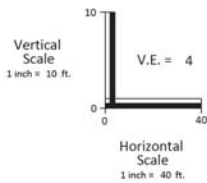
G:\10\W\1320-1702\03\G6 Cross Sections




**LEGEND**

- µg/Kg - Micrograms per Kilogram
- 100 - Trichloroethene Concentration, µg/Kg
- BDL - Below Detection Limit
- NA - Not Analyzed
- CL - Silty Sandy CLAY
- ML - Clayey SILT to Silt with trace Sand
- SM - Silty SAND to very Sandy SILT
- SW - Fine-Coarse SAND, with trace Silt
- Estimated Water Table

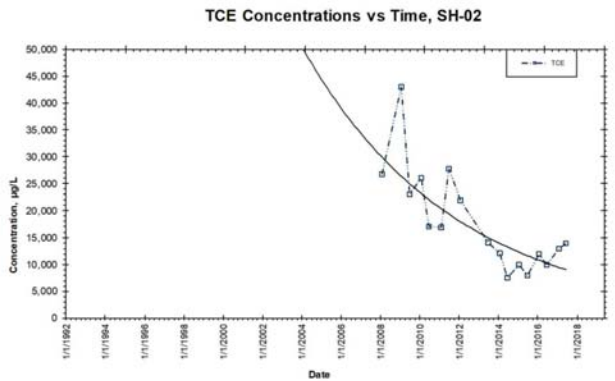
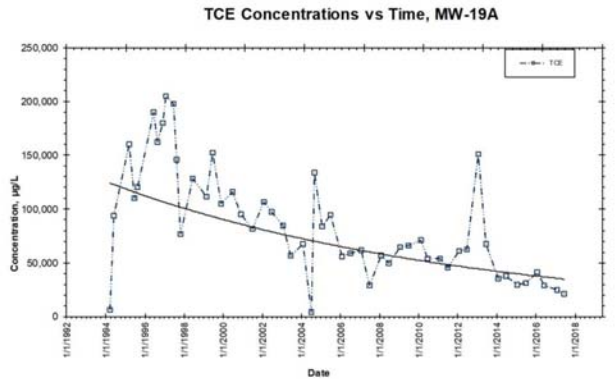
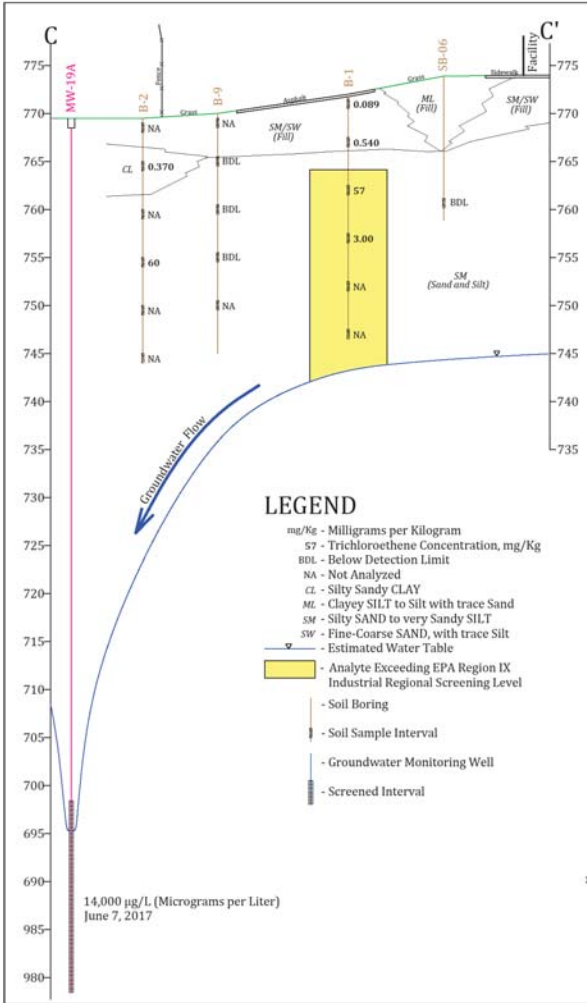
- Soil Boring
- Soil Sample Interval
- Groundwater Monitoring Well
- Screened Interval




 <b>Atlanta Environmental Management, Inc.</b> <small>Environmental Consulting, Engineering, Hydrogeologic Services</small> 2580 Northeast Expressway • Atlanta, Georgia 30345 Phone: 404.329.9000 • Fax: 404.329.2557			
PROJECT #:	1320-1702-03	DATE:	August 25, 2017
DRAWN BY:	TL	REVISED:	----
CHECKED BY:	LM	SCALE:	As Shown
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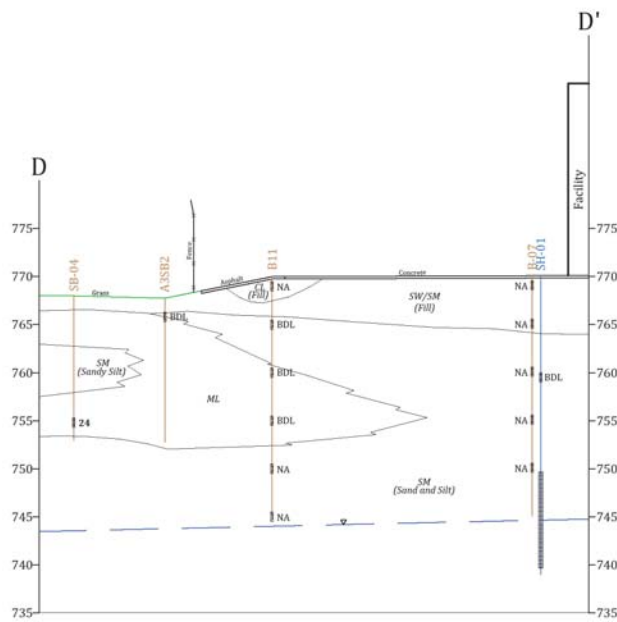
Honea Path Plant 415 Brick Mill Road Honea Path, South Carolina	
<b>Cross Section B - B'</b> Approximately Perpendicular to Groundwater Flow	
Figure	<b>7</b>

G:\10\WQ\1320-1702\03\GIS Cross Sections



 <b>Atlanta Environmental Management, Inc.</b> <small>Environmental Consulting, Engineering, Hydrogeologic Services          2580 Northeast Expressway • Atlanta, Georgia 30345          Phone: 404.329.3000 • Fax: 404.329.2517</small>		<b>Honea Path Plant</b> 415 Brick Mill Road Honea Path, South Carolina	
PROJECT #:	1320-1702-03	DATE:	September 26, 2017
DRAWN BY:	TL	REVISED:	---
CHECKED BY:	LM	SCALE:	As Shown
PROJECT MGR:	TG	PRINTED:	9/26/2017 4:01 PM
<b>Cross Section C - C'</b> Approximately Parallel to Groundwater Flow			Figure <b>8</b>

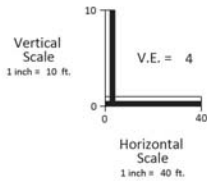
G:\10W\1320-1702\03\05 Cross Sections



**LEGEND**

- µg/Kg - Micrograms per Kilogram
- 24 - Trichloroethene Concentration, µg/Kg
- BDL - Below Detection Limit
- NA - Not Analyzed
- CL - Silty Sandy CLAY
- ML - Clayey SILT to Silt with trace Sand
- SM - Silty SAND to very Sandy SILT
- SW - Fine-Coarse SAND, with trace Silt
- Estimated Water Table

- Soil Boring
- Soil Sample Interval
- Groundwater Monitoring Well
- Screened Interval



 <b>Atlanta Environmental Management, Inc.</b> <small>Environmental Consulting, Engineering, Hydrogeologic Services</small> <small>2580 Northeast Expressway • Atlanta, Georgia 30345</small> <small>Phone: 404.329.9000 • Fax: 404.329.2557</small>			
PROJECT #:	1320-1702-03	DATE:	August 25, 2017
DRAWN BY:	TL	REVISED:	----
CHECKED BY:	LM	SCALE:	As Shown
PROJECT MGR:	TG	PRINTED:	9/1/2017 1:28 PM

<b>Honea Path Plant</b> 415 Brick Mill Road Honea Path, South Carolina	
<b>Cross Section D - D'</b> Approximately Parallel to Groundwater Flow	
Figure <b>9</b>	

G:\10\W\1320-1702\03\GIS Cross Sections

---

**ATTACHMENT A**

**DHEC Additional Assessment Request,  
Correspondence Dated March 21, 2017, and  
DHEC Work Plan Approval Letter  
Dated June 30, 2017**

MAR 29 2017

March 21, 2017

Mr. Mike Goldstein  
Ingersoll Rand  
800-E. Beaty St.  
Davidson, NC 28036

Re: Limited Source Area Assessment (AEM; November 22, 2016)  
Ingersoll Rand- Honea Path Plant  
Anderson County  
Consent Agreement 01-045-W  
BLWM File # 400238

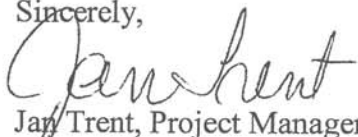
Dear Mr. Goldstein:

The South Carolina Department of Health and Environmental Control (the Department) has reviewed and approved the Limited Source Area Assessment report submitted by AEM. The following comments were generated by this review.

- 1: The EPA Risk-based SSL (soil screening levels) for protection of groundwater or the MCL (maximum contaminant level)-based SSL should be used, if available to define the extent of the soil contamination.
- 2: The Department concurs that additional sampling and data collection is warranted prior to submittal of a Feasibility Study (FS). Please note, a FS should include all media impacted i.e. soil, groundwater, and surface water.

Please submit the proposed work plan for additional source area investigation to my attention on or before May 30, 2017. On all correspondence regarding this site, please reference BLWM File # 400238. If you have questions concerning this correspondence, or would like to submit additional information, contact Jan Trent, the project manager, at (803) 898-0723 or email me at trentjc@dhec.sc.gov.

Sincerely,



Jan Trent, Project Manager  
State Voluntary Cleanup Program  
Site Assessment, Remediation & Revitalization Division  
Bureau of Land and Waste Management

cc: Lucas Berresford, Manager, BLWM  
Chris McClusky, Area Director, Upstate BEHS- Anderson  
Leona Mile, AEM, 2580 Northeast Expressway; Atlanta, GA 30345  
Technical File #400238





Honea Path

June 30, 2017

Mr. Mike Goldstein  
Ingersoll Rand  
800-E. Beaty St.  
Davidson, NC 28036

Re: Ingersoll Rand- Honea Path Plant  
Soil Assessment Work Plan Addendum TCE AST Pad (AEM; May 30, 2017)  
Anderson County  
Consent Agreement 01-045-W  
BLWM File # 400238

Dear Mr. Goldstein:

The South Carolina Department of Health and Environmental Control (the Department) has reviewed and approved the Soil Assessment Work Plan Addendum TCE AST Pad submitted by AEM.

The report should include soil profile cross sections of the TCE AST Pad area. The *Soil Assessment Addendum Report* should be submitted to my attention on or before September 28, 2017. On all correspondence regarding this site, please reference BLWM File # 400238. If you have questions concerning this correspondence, or would like to submit additional information, contact Jan Trent, the project manager, at (803) 898-0723 or email me at trentjc@dhec.sc.gov.

Sincerely,

Jan Trent, Project Manager  
State Voluntary Cleanup Program  
Site Assessment, Remediation & Revitalization Division  
Bureau of Land and Waste Management

cc: Lucas Berresford, Manager, BLWM  
Chris McClusky, Area Director, Upstate BEHS- Anderson  
Leona Mile, AEM, 2580 Northeast Expressway; Atlanta, GA 30345  
Technical File #400238

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**ATTACHMENT B**  
**Soil Boring Lithologic Logs**

# Atlanta Environmental Management, Inc.

## Soil Boring Log

*Client:* Ingersoll Rand  
*Site:* Honea Path Plant  
*Address:* 415 Brick Mill Road  
*City:* Honea Path  
*State:* South Carolina  
*Zip:* 29654

*Boring Name:* B-7  
*Date:* 7/27/2017  
*Driller:* GeoLab, Inc.  
*Geologist:* Tony L Gordon  
*Drilling Method:* DPT (3.5-inch Diameter)  
*Water Level:* Not Detected

Depth (feet bls)		Lithologic Description	USCS Classification	Remarks
From	To			
0	0.5	Concrete Surface Payment		
0.5	0.8	Gravel Base		
0.8	2.5	Red-brown, fine-coarse Sand, trace-little silt, moist (Fill)	SM/SW	Hand Auger Sample 1 Ft. <u>PID: 0.8 PPM</u> (No odor)
2.5	5	Red-brown, fine-coarse Sand, little-some, gravel, trace-little silty, moist (Fill)	SM/SW	
5	6	Red-brown, fine-coarse Sand, trace silt, non-plastic, moist (Fill)	SW/SM	DPT 5 Ft. <u>PID: 0.8 PPM</u> (No odor)
6	10	No Recovery		
10	12	Orange-brown, brown, white, mottled, fine-coarse Sand, trace silt, trace gravel, non-plastic, dry-moist, no odor (Saprolite)	SW/SM	DPT 10 Ft. <u>PID: 0.5 PPM</u> (No odor)
12	15	No Recovery		
15	17	Orange-brown, brown, white, mottled, Silt and fine-medium Sand, trace clay, trace gravel/rock fragments, trace mica, non-plastic, moist (saprolite)	SM	DPT 15 Ft. <u>PID: 0.4 PPM</u> (No odor)
17	20	No Recovery		
20	23.5	Brown, orange-brown, gray, white, mottled, fine-coarse Sand, trace-little silt, non-plastic, moist (Saprolite)	SM	DPT 20 Ft. <u>PID: 2.0 PPM</u> (No odor)
23.5	25	No Recovery		
	25	Terminate Soil Boring		

# Atlanta Environmental Management, Inc.

## Soil Boring Log

*Client:* Ingersoll Rand  
*Site:* Honea Path Plant  
*Address:* 415 Brick Mill Road  
*City:* Honea Path  
*State:* South Carolina  
*Zip:* 29654

*Boring Name:* B-7  
*Date:* 7/27/2017  
*Driller:* GeoLab, Inc.  
*Geologist:* Tony L Gordon  
*Drilling Method:* DPT (3.5-inch Diameter)  
*Water Level:* Not Detected


# Atlanta Environmental Management, Inc.

## Soil Boring Log

Client: Ingersoll Rand  
 Site: Honea Path Plant  
 Address: 415 Brick Mill Road  
 City: Honea Path  
 State: South Carolina  
 Zip: 29654

Boring Name: B-8  
 Date: 7/27/2017  
 Driller: GeoLab, Inc.  
 Geologist: Tony L Gordon  
 Drilling Method: DPT (3.5-inch Diameter)  
 Water Level: Not Detected

Depth (feet bls)		Lithologic Description	USCS Classification	Remarks
From	To			
0	2.5	Red-brown, orange-brown, fine-coarse Sand, trace-little silt, trace mica, non-plastic, dry/low moisture (Fill)	SM/SW	Hand Auger Sample 1 Ft. <u>PID: 0.0 PPM (No odor)</u>
2.5	5	Tan, white, orange-brown, mottled, fine-coarse Sand, trace silt, trace clay, trace mica, moist (Fill)	SW/SM	Hand Auger Sample 5 Ft. <u>PID: 0.0 PPM (No odor)</u>
5	10	Orange-brown, brown, white, light-gray, Silt and fine-medium sand, trace mica, non-plastic, moist,	SM	
10	15	Brown, orange-brown, tan, white, mottled, Silt, little-some fine-medium sand, trace clay, trace mica, non-plastic, moist	SM	DPT 10 Ft. <u>PID: 0.0 PPM (No odor)</u>
15	20	Brown, orange-brown, light-gray, mottled, silty, fine-coarse Sand, trace mica, non-plastic, moist	SM	DPT 15 Ft. <u>PID: 0.0 PPM (No odor)</u>
20	25	Gray, brown, white, orange-brown, mottled, Silt and fine-coarse Sand, trace clay, trace mica, non-plastic, moist/very moist	SM	DPT 20 Ft. <u>PID: 0.0 PPM (No odor)</u>
				DPT 25 Ft. <u>PID: 0.0 PPM (No odor)</u>
	25	Terminate Soil Boring		

# Atlanta Environmental Management, Inc.

## Soil Boring Log

Client: Ingersoll Rand  
 Site: Honea Path Plant  
 Address: 415 Brick Mill Road  
 City: Honea Path  
 State: South Carolina  
 Zip: 29654

Boring Name: B-9  
 Date: 7/27/2017  
 Driller: GeoLab, Inc.  
 Geologist: Tony L Gordon  
 Drilling Method: DPT (3.5-inch Diameter)  
 Water Level: 22-23 feet from surface

Depth (feet bls)		Lithologic Description	USCS Classification	Remarks
From	To			
0	2	Red-brown, silty, fine-coarse Sand, non-plastic, dry (Fill)	SM	Hand Auger Sample 1 Ft. PID: <u>1.1 PPM</u> (No odor)
2	5	Red-brown, fine-coarse Sand, trace silt, trace clay, very low-non plastic, moist (Fill)	SW/SM	
5	6	Red-brown, orange-brown, brown, Silt, little fine sand, non-plastic, moist,	ML/SM	Hand Auger Sample 5 Ft. PID: <u>1.2 PPM</u> (No odor)
6	12	Red-brown, orange-brown, white, mottled, Silt and fine-coarse Sand, trace mica, non-plastic, moist (Saprolite)	SM	DPT 10 Ft. PID: <u>0.7 PPM</u> (No odor)
12	18	Brown, white, light-gray, mottled and banded, very silty, fine-coarse Sand, trace small quartz gravels, trace mica, non-plastic, moist (Saprolite)	SM	DPT 15 Ft. PID: <u>0.1 PPM</u> (No odor)
18	25	Gray, brown, white, orange-brown, mottled, Silt, little-some fine-coarse sand, trace clay, trace mica, non-plastic, moist/wet (Saprolite)	SM	DPT 20 Ft. PID: <u>0.8 PPM</u> (No odor)
	25	Terminate Soil Boring		

# Atlanta Environmental Management, Inc.

## Soil Boring Log

Client: Ingersoll Rand  
 Site: Honea Path Plant  
 Address: 415 Brick Mill Road  
 City: Honea Path  
 State: South Carolina  
 Zip: 29654

Boring Name: B-10  
 Date: 7/27/2017  
 Driller: GeoLab, Inc.  
 Geologist: Tony L Gordon  
 Drilling Method: DPT (3.5-inch Diameter)  
 Water Level: Not Detected

Depth (feet bls)		Lithologic Description	USCS Classification	Remarks
From	To			
0	0.5	Concrete Surface Payment		
0.5	0.8	Gravel Base		
0.8	2	Orange-brown, red-brown, fine-coarse Sand, trace silt, trace-little gravel, dry (Fill)	SM/SW	Hand Auger Sample 1 Ft. <u>PID: 0.4 PPM (No odor)</u>
2	5	Orange-brown, tan, brown, Silt and fine-Sand, trace mica, non-plastic, dry	SM	Hand Auger Sample 5 Ft. <u>PID: 0.2 PPM (No odor)</u>
5	10	Red-brown, orange-brown, brown, white, Silt & fine Sand, trace clay, non-plastic, moist	SM	DPT 10 Ft. <u>PID: 0.1 PPM (No odor)</u>
10	18	Brown, tan, white, mottled, Silt & fine-medium Sand, trace mica, non-plastic, moist	SM	DPT 15 Ft. <u>PID: 0.3 PPM (No odor)</u>
18	20	Brown, tan-brown, white, mottled, Silt, trace-little fine sand, trace mica, non-plastic, moist	ML/SM	DPT 20 Ft. <u>PID: 0.5 PPM (No odor)</u>
20	25	Brown, white, tan, mottled, Silt & fine-medium Sand, trace clay, non-plastic, moist	SM	
	25	Terminate Soil Boring		

# Atlanta Environmental Management, Inc.

## Soil Boring Log

Client: Ingersoll Rand  
 Site: Honea Path Plant  
 Address: 415 Brick Mill Road  
 City: Honea Path  
 State: South Carolina  
 Zip: 29654

Boring Name: B-11  
 Date: 7/27/2017  
 Driller: GeoLab, Inc.  
 Geologist: Tony L Gordon  
 Drilling Method: DPT (3.5-inch Diameter)  
 Water Level: Not Detected

Depth (feet bls)		Lithologic Description	USCS Classification	Remarks
From	To			
0	0.4	Asphalt Surface Payment		
0.4	0.8	Gravel Base		
0.8	2	Red-brown, stiff, silty Clay, trace-little gravel, moist (Fill)	CL	Hand Auger Sample 1 Ft. <u>PID: 6.2 PPM</u> (No odor)
2	4	Red-brown, Silt & fine Sand, trace clay, trace mica, moist (Fill)	SM	
4	6	Orange-brown, fine-coarse Sand, trace-little silt, non-plastic, moist,	SM/SW	Hand Auger Sample 5 Ft. <u>PID: 1.3 PPM</u> (No odor)
6	10	Red-brown, orange-brown, brown, Silt, little fine sand, trace-little clay, non-plastic, moist	SM	DPT 10 Ft. <u>PID: 0.4 PPM</u> (No odor)
10	18	Red-brown, brown, Silt, trace-little fine sand, trace clay, trace mica, non-plastic, moist	ML	DPT 15 Ft. <u>PID: 0.5 PPM</u> (No odor)
18	25	Brown, gray, white, pink, mottled, very silty, fine-coarse Sand, trace quartz gravel, trace mica, non-plastic, moist (Saprolite)	SM	DPT 20 Ft. <u>PID: 1.1 PPM</u> (No odor) DPT 25 Ft. <u>PID: 6.1 PPM</u> (No odor)
	25	Terminate Soil Boring		



# Atlanta Environmental Management, Inc.

## Soil Boring Log

Client: Ingersoll Rand  
 Site: Honea Path Plant  
 Address: 415 Brick Mill Road  
 City: Honea Path  
 State: South Carolina  
 Zip: 29654

Boring Name: B-12  
 Date: 7/27/2017  
 Driller: GeoLab, Inc.  
 Geologist: Tony L Gordon  
 Drilling Method: DPT (3.5-inch Diameter)  
 Water Level: Not Detected

Depth (feet bls)		Lithologic Description	USCS Classification	Remarks
From	To			
0	5	Red-brown, brown, very stiff, silty, fine-coarse Sand, trace clay, trace-little gravel, dry (Fill)	SM/SW	Hand Auger Sample 1 Ft. <u>PID: 0.0 PPM</u> (No odor)
5	6	Red-brown, orange-brown, Silt and fine-Sand, trace clay, trace mica, non-plastic, moist	SM	Hand Auger Sample 5 Ft. <u>PID: 0.0 PPM</u> (No odor)
6	15	Brown, orange-brown, tan, white, light gray, mottled, very silty, fine-coarse Sand, trace clay, micaceous, non-plastic, moist	SM	DPT 10 Ft. <u>PID: 0.0 PPM</u> (No odor)
				DPT 15 Ft. <u>PID: 0.0 PPM</u> (No odor)
15	25	Brown, tan, mottled, very silty, fine-medium Sand, trace clay, trace mica, non-plastic, moist	SM	DPT 20 Ft. <u>PID: 0.8 PPM</u> (No odor)
				DPT 25 Ft. <u>PID: 0.8 PPM</u> (No odor)
	25	Terminate Soil Boring		

# Atlanta Environmental Management, Inc.

## Soil Boring Log

Client: Ingersoll Rand  
 Site: Honea Path Plant  
 Address: 415 Brick Mill Road  
 City: Honea Path  
 State: South Carolina  
 Zip: 29654

Boring Name: B-13  
 Date: 7/27/2017  
 Driller: GeoLab, Inc.  
 Geologist: Tony L Gordon  
 Drilling Method: DPT (3.5-inch Diameter)  
 Water Level: Not Detected

Depth (feet bls)		Lithologic Description	USCS Classification	Remarks
From	To			
0	2.5	Red-brown, orange-brown, fine-coarse Sand, trace-little silt, trace mica, non-plastic, dry/low moisture (Fill)	SM/SW	Hand Auger Sample 1 Ft. <u>PID: 0.0 PPM</u> (No odor)
2.5	5	Tan, white, orange-brown, mottled, fine-coarse Sand, trace silt, trace clay, trace mica, moist (Fill)	SW/SM	
5	6.5	Tan, orange-brown, silty, fine Sand, trace clay, trace mica, non-plastic, moist,	SM	Hand Auger Sample 5 Ft. <u>PID: 0.0 PPM</u> (No odor)
6.5	10	Brown, orange-brown, mottled, silty, fine-coarse Sand, trace mica, non-plastic, moist	SM	DPT 10 Ft. <u>PID: 0.0 PPM</u> (No odor)
10	15	Brown, orange-brown, tan, white, mottled, very silty, little-some fine-coarse Sand, trace clay, trace mica, non-plastic, moist	SM	DPT 15 Ft. <u>PID: 0.0 PPM</u> (No odor)
15	20	Brown, orange-brown, white, tan, mottled, very silty, fine-coarse Sand, non-plastic, moist	SM	DPT 20 Ft. <u>PID: 0.0 PPM</u> (No odor)
20	25	Gray, brown, white, mottled, silty, fine-coarse Sand, trace clay, trace mica, non-plastic, moist/very moist	SM	DPT 25 Ft. <u>PID: 0.0 PPM</u> (No odor)
	25	Terminate Soil Boring		

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**ATTACHMENT C**  
**Laboratory Analytical Packages**



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 03, 2017

Leona Miles  
Atlanta Environmental Mgmt  
2580 NE Expressway  
Atlanta GA 30345

RE: Honea Path

Dear Leona Miles:

Order No: 1707N71

Analytical Environmental Services, Inc. received 6 samples on 7/27/2017 6:20:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES' certifications are as follows:

-South Carolina Certification number 98016003 for Clean Water Act and for Solid and Hazardous Waste, effective until 6/30/18.

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

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

Sincerely,

Ioana Pacurar  
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC.  
 3080 Presidential Drive Atlanta, GA 30340-3704  
 Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 107071

Date: 7/28/17 Page 1 of 2

COMPANY: ATLANTA ENVIRONMENTAL MANAGEMENT, Inc (AEM)		ADDRESS: 2580 NE EXPRESSWAY Atlanta GA 30345		ANALYSIS REQUESTED						Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AES Access account.		Number of Containers																				
PHONE: 404-329-9806		EMAIL: leona-miles@aem-net.com		<table border="1"> <tr> <td>VOC's (02008)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>SE</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>						VOC's (02008)												SE										
VOC's (02008)																																
SE																																
SAMPLED BY: Tony L Gordon		SIGNATURE: Tony J Gordon		PRESERVATION (see codes)																												
#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)	S/M																									
1	B-10 (1')	7/27/17	0725	X		SO										HOLD																
2	B-10 (5')	7/27/17	0740	X		SO	X																									
3	B-10 (10')	7/27/17	0750	X		SO	X																									
4	B-10 (15')	7/27/17	0755	X		SO										HOLD																
5	B-10 (25')	7/27/17	0759	X		SO										HOLD																
6	B-7 (1')	7/27/17	0810	X		SO										HOLD																
7	B-7 (5')	7/27/17	0815	X		SO										HOLD																
8	B-7 (10')	7/27/17	0845	X		SO										HOLD																
9	B-7 (15')	7/27/17	0855	X		SO										HOLD																
10	B-7 (20')	7/27/17	0905	X		SO										HOLD																
11	B-7 (23')	7/27/17	0910	X		SO										HOLD																
12	B-11 (1')	7/27/17	1010	X		SO										HOLD																
13	B-11 (5')	7/27/17	1015	X		SO	X																									
14	B-11 (10')	7/27/17	1020	X		SO	X																									
RELINQUISHED BY: Tony J Gordon		DATE/TIME: 1525 7/27/17	RECEIVED BY: [Signature]		DATE/TIME: 1525 7/27/17	PROJECT INFORMATION						RECEIPT																				
PROJECT NAME: Honey Path		PROJECT #: 1320-1701		SITE ADDRESS: 445 Brick Mill Rd Honey Path, SC 29654						Total # of Containers: 56																						
SEND REPORT TO: Leona Miles		INVOICE TO: Leona-miles@aem-net.com		(IF DIFFERENT FROM ABOVE)						Turnaround Time (TAT) Request																						
SHIPMENT METHOD		OUT: / /		VIA: / /		IN: / /						<input checked="" type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other																				
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		OUT: / /		VIA: / /		IN: / /						STATE PROGRAM (if any):																		
		client		FedEx		UPS		US mail						courier		Greyhound																
		other:												E-mail? <input checked="" type="checkbox"/>		Fax? <input type="checkbox"/>																
														DATA PACKAGE: I <input checked="" type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>																		
Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.																																



ANALYTICAL ENVIRONMENTAL SERVICES, INC.  
 3080 Presidential Drive Atlanta, GA 30340-3704  
 Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1707N71

Date: 7/28/17 Page 2 of 2

COMPANY: <b>ATLANTA ENVIRONMENTAL MANAGEMENT, Inc. (AEM)</b>		ADDRESS: <b>2580 NE Expressway Atlanta, Georgia, 30345</b>		ANALYSIS REQUESTED				Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> for downloadable COCs and to log in to your AESAccess account.	Number of Containers
PHONE: <b>(404) 329-9006</b>		EMAIL: <b>Leona-miles@aem-net.com</b>		PRESERVATION (see codes)					
SAMPLED BY: <b>Tony L Gordon</b>		SIGNATURE: <i>Tony L Gordon</i>							
#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)	REMARKS		
1	B-11 (15')	7/27/17	1025	X		SO		4	
2	B-11 (20')	7/27/17	1027	X		SO	HOLD	4	
3	B-11 (25')	7/27/17	1030	X		SO	HOLD	4	
4									
5	Trip Blank			X		W	QA/QC Sample	2	
6									
7									
8									
9									
10									
11									
12									
13									
14									
RELINQUISHED BY: <i>Tony L Gordon</i> 1502 7/27/17		RECEIVED BY: <i>Alisa</i> 1522 7/27/17		PROJECT INFORMATION				RECEIPT	
2. <i>Alisa</i> 1820 7/27/17		3. <i>Alisa</i> 1820 7/27/17		PROJECT NAME: <b>HONECA PATH</b>				Total # of Containers: <b>14</b>	
3.		3.		PROJECT #: <b>1320-1701</b>				Turnaround Time (TAT) Request	
				SITE ADDRESS: <b>415 Brick Mill Rd Honeca Path, SC 29654</b>				<input checked="" type="checkbox"/> Standard 5 Business Days	
				SEND REPORT TO: <b>Leona Miles</b>				<input type="checkbox"/> 2 Business Day Rush	
				INVOICE TO: <b>Leona Miles @ aem-net.com</b>				<input type="checkbox"/> Next Business Day Rush	
				(IF DIFFERENT FROM ABOVE)				<input type="checkbox"/> Same-Day Rush (auth req.)	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		QUOTE #:				STATE PROGRAM (if any):	
		OUT: / / VIA: / /		PO#:				E-mail? <input checked="" type="checkbox"/> Fax? <input type="checkbox"/>	
		IN: <u>client</u> FedEx UPS US mail courier Greyhound						DATA PACKAGE: <input type="checkbox"/> I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV	
		other: _____							

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)  
 Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Page 3 of 33 White Copy - Original; Yellow Copy - Client

**Client:** Atlanta Environmental Mgmt  
**Project:** Honea Path  
**Lab ID:** 1707N71

**Case Narrative**

Sample Receiving Non-conformance:

The date listed on the Chain of Custody in the top right corner is 7/28/17; however, per Leona Miles with Atlanta Environmental Management via e-mail on 7/28/17 at 7:48 AM, the date was supposed to be 7/27/17. The laboratory proceeded as instructed. Furthermore, sample B-10 (20') was received, but it was not listed on the Chain of Custody, at the request of Leona Miles with Atlanta Environmental Management via e-mail on 7/28/17 at 8:08 AM, the sampled was logged in and placed on hold until further notice.

**Analytical Environmental Services, Inc**

Date: 3-Aug-17

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-10 (5')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 7:40:00 AM
<b>Lab ID:</b> 1707N71-002	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B</b>				<b>(SW5035)</b>				
Dichlorodifluoromethane	BRL	11		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Chloromethane	BRL	11		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Vinyl chloride	BRL	11		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Bromomethane	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Chloroethane	BRL	11		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Trichlorofluoromethane	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Acrolein	BRL	56		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
1,1-Dichloroethene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Acetone	BRL	110		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Carbon disulfide	BRL	11		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Vinyl acetate	BRL	11		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Methylene chloride	BRL	23		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Acrylonitrile	BRL	56		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
trans-1,2-Dichloroethene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
1,1-Dichloroethane	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
2,2-Dichloropropane	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
cis-1,2-Dichloroethene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
2-Butanone	BRL	56		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Bromochloromethane	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Chloroform	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
1,1,1-Trichloroethane	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
1,1-Dichloropropene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Carbon tetrachloride	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Benzene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
1,2-Dichloroethane	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Trichloroethene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
1,2-Dichloropropane	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Dibromomethane	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Bromodichloromethane	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
cis-1,3-Dichloropropene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
4-Methyl-2-pentanone	BRL	11		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Toluene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
trans-1,3-Dichloropropene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
1,1,2-Trichloroethane	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
2-Hexanone	BRL	11		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Tetrachloroethene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
1,3-Dichloropropane	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Dibromochloromethane	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
1,2-Dibromoethane	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Chlorobenzene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
1,1,1,2-Tetrachloroethane	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-10 (5')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 7:40:00 AM
<b>Lab ID:</b> 1707N71-002	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Ethylbenzene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
m,p-Xylene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
o-Xylene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Styrene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Bromoform	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Bromobenzene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
1,1,2,2-Tetrachloroethane	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
1,2,3-Trichloropropane	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Isopropylbenzene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Naphthalene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
2-Chlorotoluene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
4-Chlorotoluene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
1,3,5-Trimethylbenzene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
tert-Butylbenzene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
1,2,4-Trimethylbenzene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
sec-Butylbenzene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
1,3-Dichlorobenzene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
4-Isopropyltoluene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
1,4-Dichlorobenzene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
1,2-Dichlorobenzene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
n-Propylbenzene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
1,2-Dibromo-3-chloropropane	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
1,2,4-Trichlorobenzene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Hexachlorobutadiene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
n-Butylbenzene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
1,2,3-Trichlorobenzene	BRL	5.6		ug/Kg-dry	246266	1	08/01/2017 12:08	CJ
Surr: 4-Bromofluorobenzene	93.7	70-130		%REC	246266	1	08/01/2017 12:08	CJ
Surr: Dibromofluoromethane	95.4	70-130		%REC	246266	1	08/01/2017 12:08	CJ
Surr: Toluene-d8	96.8	70-130		%REC	246266	1	08/01/2017 12:08	CJ

**PERCENT MOISTURE D2216**

Percent Moisture	11.5	0		wt%	R348893	1	08/02/2017 16:43	VH
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<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 3-Aug-17

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-10 (10')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 7:50:00 AM
<b>Lab ID:</b> 1707N71-003	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Dichlorodifluoromethane	BRL	13		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Chloromethane	BRL	13		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Vinyl chloride	BRL	13		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Bromomethane	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Chloroethane	BRL	13		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Trichlorofluoromethane	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Acrolein	BRL	63		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
1,1-Dichloroethene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Acetone	BRL	130		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Carbon disulfide	BRL	13		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Vinyl acetate	BRL	13		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Methylene chloride	BRL	25		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Acrylonitrile	BRL	63		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
trans-1,2-Dichloroethene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
1,1-Dichloroethane	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
2,2-Dichloropropane	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
cis-1,2-Dichloroethene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
2-Butanone	BRL	63		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Bromochloromethane	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Chloroform	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
1,1,1-Trichloroethane	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
1,1-Dichloropropene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Carbon tetrachloride	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Benzene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
1,2-Dichloroethane	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Trichloroethene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
1,2-Dichloropropane	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Dibromomethane	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Bromodichloromethane	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
cis-1,3-Dichloropropene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
4-Methyl-2-pentanone	BRL	13		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Toluene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
trans-1,3-Dichloropropene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
1,1,2-Trichloroethane	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
2-Hexanone	BRL	13		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Tetrachloroethene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
1,3-Dichloropropane	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Dibromochloromethane	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
1,2-Dibromoethane	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Chlorobenzene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
1,1,1,2-Tetrachloroethane	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-10 (10')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 7:50:00 AM
<b>Lab ID:</b> 1707N71-003	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Ethylbenzene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
m,p-Xylene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
o-Xylene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Styrene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Bromoform	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Bromobenzene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
1,1,2,2-Tetrachloroethane	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
1,2,3-Trichloropropane	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Isopropylbenzene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Naphthalene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
2-Chlorotoluene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
4-Chlorotoluene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
1,3,5-Trimethylbenzene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
tert-Butylbenzene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
1,2,4-Trimethylbenzene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
sec-Butylbenzene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
1,3-Dichlorobenzene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
4-Isopropyltoluene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
1,4-Dichlorobenzene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
1,2-Dichlorobenzene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
n-Propylbenzene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
1,2-Dibromo-3-chloropropane	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
1,2,4-Trichlorobenzene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Hexachlorobutadiene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
n-Butylbenzene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
1,2,3-Trichlorobenzene	BRL	6.3		ug/Kg-dry	246266	1	07/31/2017 16:59	MD
Surr: 4-Bromofluorobenzene	90.1	70-130		%REC	246266	1	07/31/2017 16:59	MD
Surr: Dibromofluoromethane	92.2	70-130		%REC	246266	1	07/31/2017 16:59	MD
Surr: Toluene-d8	98.7	70-130		%REC	246266	1	07/31/2017 16:59	MD

**PERCENT MOISTURE D2216**

Percent Moisture	16.1	0		wt%	R348804	1	08/01/2017 13:00	VH
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<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 3-Aug-17

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-11 (5')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 10:15:00 AM
<b>Lab ID:</b> 1707N71-013	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Dichlorodifluoromethane	BRL	11		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Chloromethane	BRL	11		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Vinyl chloride	BRL	11		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Bromomethane	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Chloroethane	BRL	11		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Trichlorofluoromethane	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Acrolein	BRL	53		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
1,1-Dichloroethene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Acetone	BRL	110		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Carbon disulfide	BRL	11		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Vinyl acetate	BRL	11		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Methylene chloride	BRL	21		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Acrylonitrile	BRL	53		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
trans-1,2-Dichloroethene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
1,1-Dichloroethane	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
2,2-Dichloropropane	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
cis-1,2-Dichloroethene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
2-Butanone	BRL	53		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Bromochloromethane	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Chloroform	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
1,1,1-Trichloroethane	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
1,1-Dichloropropene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Carbon tetrachloride	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Benzene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
1,2-Dichloroethane	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Trichloroethene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
1,2-Dichloropropane	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Dibromomethane	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Bromodichloromethane	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
cis-1,3-Dichloropropene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
4-Methyl-2-pentanone	BRL	11		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Toluene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
trans-1,3-Dichloropropene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
1,1,2-Trichloroethane	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
2-Hexanone	BRL	11		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Tetrachloroethene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
1,3-Dichloropropane	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Dibromochloromethane	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
1,2-Dibromoethane	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Chlorobenzene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
1,1,1,2-Tetrachloroethane	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD

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

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-11 (5')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 10:15:00 AM
<b>Lab ID:</b> 1707N71-013	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Ethylbenzene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
m,p-Xylene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
o-Xylene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Styrene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Bromoform	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Bromobenzene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
1,1,2,2-Tetrachloroethane	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
1,2,3-Trichloropropane	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Isopropylbenzene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Naphthalene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
2-Chlorotoluene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
4-Chlorotoluene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
1,3,5-Trimethylbenzene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
tert-Butylbenzene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
1,2,4-Trimethylbenzene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
sec-Butylbenzene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
1,3-Dichlorobenzene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
4-Isopropyltoluene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
1,4-Dichlorobenzene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
1,2-Dichlorobenzene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
n-Propylbenzene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
1,2-Dibromo-3-chloropropane	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
1,2,4-Trichlorobenzene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Hexachlorobutadiene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
n-Butylbenzene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
1,2,3-Trichlorobenzene	BRL	5.3		ug/Kg-dry	246266	1	07/31/2017 15:47	MD
Surr: 4-Bromofluorobenzene	88.9	70-130		%REC	246266	1	07/31/2017 15:47	MD
Surr: Dibromofluoromethane	93.6	70-130		%REC	246266	1	07/31/2017 15:47	MD
Surr: Toluene-d8	98.8	70-130		%REC	246266	1	07/31/2017 15:47	MD

**PERCENT MOISTURE D2216**

Percent Moisture	9.19	0		wt%	R348804	1	08/01/2017 13:00	VH
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<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 3-Aug-17

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-11 (10')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 10:20:00 AM
<b>Lab ID:</b> 1707N71-014	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Dichlorodifluoromethane	BRL	14		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Chloromethane	BRL	14		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Vinyl chloride	BRL	14		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Bromomethane	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Chloroethane	BRL	14		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Trichlorofluoromethane	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Acrolein	BRL	70		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
1,1-Dichloroethene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Acetone	BRL	140		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Carbon disulfide	BRL	14		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Vinyl acetate	BRL	14		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Methylene chloride	BRL	28		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Acrylonitrile	BRL	70		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
trans-1,2-Dichloroethene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
1,1-Dichloroethane	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
2,2-Dichloropropane	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
cis-1,2-Dichloroethene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
2-Butanone	BRL	70		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Bromochloromethane	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Chloroform	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
1,1,1-Trichloroethane	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
1,1-Dichloropropene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Carbon tetrachloride	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Benzene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
1,2-Dichloroethane	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Trichloroethene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
1,2-Dichloropropane	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Dibromomethane	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Bromodichloromethane	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
cis-1,3-Dichloropropene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
4-Methyl-2-pentanone	BRL	14		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Toluene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
trans-1,3-Dichloropropene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
1,1,2-Trichloroethane	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
2-Hexanone	BRL	14		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Tetrachloroethene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
1,3-Dichloropropane	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Dibromochloromethane	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
1,2-Dibromoethane	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Chlorobenzene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
1,1,1,2-Tetrachloroethane	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-11 (10')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 10:20:00 AM
<b>Lab ID:</b> 1707N71-014	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Ethylbenzene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
m,p-Xylene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
o-Xylene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Styrene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Bromoform	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Bromobenzene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
1,1,2,2-Tetrachloroethane	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
1,2,3-Trichloropropane	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Isopropylbenzene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Naphthalene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
2-Chlorotoluene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
4-Chlorotoluene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
1,3,5-Trimethylbenzene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
tert-Butylbenzene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
1,2,4-Trimethylbenzene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
sec-Butylbenzene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
1,3-Dichlorobenzene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
4-Isopropyltoluene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
1,4-Dichlorobenzene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
1,2-Dichlorobenzene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
n-Propylbenzene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
1,2-Dibromo-3-chloropropane	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
1,2,4-Trichlorobenzene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Hexachlorobutadiene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
n-Butylbenzene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
1,2,3-Trichlorobenzene	BRL	7.0		ug/Kg-dry	246266	1	07/31/2017 16:35	MD
Surr: 4-Bromofluorobenzene	89.3	70-130		%REC	246266	1	07/31/2017 16:35	MD
Surr: Dibromofluoromethane	91.9	70-130		%REC	246266	1	07/31/2017 16:35	MD
Surr: Toluene-d8	97.5	70-130		%REC	246266	1	07/31/2017 16:35	MD

**PERCENT MOISTURE D2216**

Percent Moisture	13.0	0		wt%	R348804	1	08/01/2017 13:00	VH
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**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-11 (15')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 10:25:00 AM
<b>Lab ID:</b> 1707N71-015	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B</b>				<b>(SW5035)</b>				
Dichlorodifluoromethane	BRL	12		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Chloromethane	BRL	12		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Vinyl chloride	BRL	12		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Bromomethane	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Chloroethane	BRL	12		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Trichlorofluoromethane	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Acrolein	BRL	60		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
1,1-Dichloroethene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Acetone	BRL	120		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Carbon disulfide	BRL	12		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Vinyl acetate	BRL	12		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Methylene chloride	BRL	24		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Acrylonitrile	BRL	60		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
trans-1,2-Dichloroethene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
1,1-Dichloroethane	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
2,2-Dichloropropane	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
cis-1,2-Dichloroethene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
2-Butanone	BRL	60		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Bromochloromethane	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Chloroform	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
1,1,1-Trichloroethane	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
1,1-Dichloropropene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Carbon tetrachloride	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Benzene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
1,2-Dichloroethane	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Trichloroethene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
1,2-Dichloropropane	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Dibromomethane	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Bromodichloromethane	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
cis-1,3-Dichloropropene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
4-Methyl-2-pentanone	BRL	12		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Toluene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
trans-1,3-Dichloropropene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
1,1,2-Trichloroethane	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
2-Hexanone	BRL	12		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Tetrachloroethene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
1,3-Dichloropropane	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Dibromochloromethane	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
1,2-Dibromoethane	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Chlorobenzene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
1,1,1,2-Tetrachloroethane	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-11 (15')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 10:25:00 AM
<b>Lab ID:</b> 1707N71-015	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Ethylbenzene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
m,p-Xylene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
o-Xylene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Styrene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Bromoform	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Bromobenzene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
1,1,2,2-Tetrachloroethane	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
1,2,3-Trichloropropane	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Isopropylbenzene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Naphthalene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
2-Chlorotoluene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
4-Chlorotoluene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
1,3,5-Trimethylbenzene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
tert-Butylbenzene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
1,2,4-Trimethylbenzene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
sec-Butylbenzene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
1,3-Dichlorobenzene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
4-Isopropyltoluene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
1,4-Dichlorobenzene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
1,2-Dichlorobenzene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
n-Propylbenzene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
1,2-Dibromo-3-chloropropane	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
1,2,4-Trichlorobenzene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Hexachlorobutadiene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
n-Butylbenzene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
1,2,3-Trichlorobenzene	BRL	6.0		ug/Kg-dry	246266	1	07/31/2017 16:11	MD
Surr: 4-Bromofluorobenzene	94.1	70-130		%REC	246266	1	07/31/2017 16:11	MD
Surr: Dibromofluoromethane	99.4	70-130		%REC	246266	1	07/31/2017 16:11	MD
Surr: Toluene-d8	98.6	70-130		%REC	246266	1	07/31/2017 16:11	MD

**PERCENT MOISTURE D2216**

Percent Moisture	16.6	0		wt%	R348804	1	08/01/2017 13:00	VH
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<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017
<b>Lab ID:</b> 1707N71-018	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5030B)</b>								
1,1,1,2-Tetrachloroethane	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
1,1,1-Trichloroethane	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
1,1,2-Trichloroethane	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
1,1-Dichloroethane	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
1,1-Dichloroethene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
1,1-Dichloropropene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
1,2,3-Trichlorobenzene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
1,2,3-Trichloropropane	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
1,2,4-Trimethylbenzene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
1,2-Dibromoethane	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
1,2-Dichlorobenzene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
1,2-Dichloroethane	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
1,2-Dichloropropane	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
1,3,5-Trimethylbenzene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
1,3-Dichlorobenzene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
1,3-Dichloropropane	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
1,4-Dichlorobenzene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
2,2-Dichloropropane	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
2-Butanone	BRL	10		ug/L	246303	1	08/01/2017 17:45	NP
2-Chlorotoluene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
2-Hexanone	BRL	5.0		ug/L	246303	1	08/01/2017 17:45	NP
4-Chlorotoluene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
4-Isopropyltoluene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
4-Methyl-2-pentanone	BRL	5.0		ug/L	246303	1	08/01/2017 17:45	NP
Acetone	BRL	10		ug/L	246303	1	08/01/2017 17:45	NP
Acrolein	BRL	5.0		ug/L	246303	1	08/01/2017 17:45	NP
Acrylonitrile	BRL	5.0		ug/L	246303	1	08/01/2017 17:45	NP
Benzene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
Bromobenzene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
Bromochloromethane	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
Bromodichloromethane	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
Bromoform	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
Bromomethane	BRL	2.0		ug/L	246303	1	08/01/2017 17:45	NP
Carbon disulfide	BRL	2.0		ug/L	246303	1	08/01/2017 17:45	NP
Carbon tetrachloride	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
Chlorobenzene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
Chloroethane	BRL	2.0		ug/L	246303	1	08/01/2017 17:45	NP
Chloroform	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017
<b>Lab ID:</b> 1707N71-018	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5030B)</b>								
Chloromethane	BRL	2.0		ug/L	246303	1	08/01/2017 17:45	NP
cis-1,2-Dichloroethene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
cis-1,3-Dichloropropene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
Dibromochloromethane	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
Dibromomethane	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
Dichlorodifluoromethane	BRL	2.0		ug/L	246303	1	08/01/2017 17:45	NP
Ethylbenzene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
Hexachlorobutadiene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
Isopropylbenzene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
m,p-Xylene	BRL	2.0		ug/L	246303	1	08/01/2017 17:45	NP
Methylene chloride	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
n-Butylbenzene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
n-Propylbenzene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
Naphthalene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
o-Xylene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
sec-Butylbenzene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
Styrene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
tert-Butylbenzene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
Tetrachloroethene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
Toluene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
trans-1,2-Dichloroethene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
trans-1,3-Dichloropropene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
Trichloroethene	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
Trichlorofluoromethane	BRL	1.0		ug/L	246303	1	08/01/2017 17:45	NP
Vinyl acetate	BRL	5.0		ug/L	246303	1	08/01/2017 17:45	NP
Vinyl chloride	BRL	2.0		ug/L	246303	1	08/01/2017 17:45	NP
Surr: 4-Bromofluorobenzene	86.2	66.1-129		%REC	246303	1	08/01/2017 17:45	NP
Surr: 4-Bromofluorobenzene	86.2	70-130		%REC	246303	1	08/01/2017 17:45	NP
Surr: Dibromofluoromethane	106	70-130		%REC	246303	1	08/01/2017 17:45	NP
Surr: Dibromofluoromethane	106	83.6-123		%REC	246303	1	08/01/2017 17:45	NP
Surr: Toluene-d8	95.8	70-130		%REC	246303	1	08/01/2017 17:45	NP
Surr: Toluene-d8	95.8	81.8-118		%REC	246303	1	08/01/2017 17:45	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



SAMPLE/COOLER RECEIPT CHECKLIST

Clear

Save as

1. Client Name: Atlanta Environmental Mgmt

AES Work Order Number: 1707N71

2. Carrier: FedEx [ ] UPS [ ] USPS [ ] Client [x] Courier [ ] Other [ ]

Table with 4 columns: Question, Yes, No, N/A, Details, Comments. Rows 3-12 covering shipping container condition, seals, temperature blanks, COC, and TAT.

13. Cooler 1 Temperature 1.2 °C Cooler 2 Temperature °C Cooler 3 Temperature °C Cooler 4 Temperature °C
14. Cooler 5 Temperature °C Cooler 6 Temperature °C Cooler 7 Temperature °C Cooler 8 Temperature °C

15. Comments: I certify that I have completed sections 1-15 (dated initials). MJ 7/27/17

Table with 4 columns: Question, Yes, No, N/A, Details, Comments. Rows 16-26 covering sample container integrity, labels, COC, and trip blanks.

27. Comments: I certify that I have completed sections 16-27 (dated initials). AJ 7/28/17

Table with 4 columns: Question, Yes, No, N/A, Details, Comments. Rows 28-30 covering chemical preservation and pH adjustment.

\* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH. I certify that I have completed sections 28-30 (dated initials). AJ 7/28/17 Page 17 of 33

Locked

Client: Atlanta Environmental Mgmt  
 Project Name: Honca Path  
 Workorder: 1707N71

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: MB-246266	Client ID:	Units: ug/Kg	Prep Date: 07/31/2017	Run No: 348635
Sample Type: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661083

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	BRL	5.0									
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,1-Dichloropropene	BRL	5.0									
1,2,3-Trichlorobenzene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2,4-Trimethylbenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3,5-Trimethylbenzene	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,3-Dichloropropane	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2,2-Dichloropropane	BRL	5.0									
2-Butanone	BRL	50									
2-Chlorotoluene	BRL	5.0									
2-Hexanone	BRL	10									
4-Chlorotoluene	BRL	5.0									
4-Isopropyltoluene	BRL	5.0									
4-Methyl-2-pentanone	BRL	10									

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N71

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: MB-246266	Client ID:	Units: ug/Kg	Prep Date: 07/31/2017	Run No: 348635
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661083

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acetone	BRL	100									
Acrolein	BRL	50									
Acrylonitrile	BRL	50									
Benzene	BRL	5.0									
Bromobenzene	BRL	5.0									
Bromochloromethane	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Hexachlorobutadiene	BRL	5.0									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methylene chloride	BRL	20									
n-Butylbenzene	BRL	5.0									
n-Propylbenzene	BRL	5.0									

<b>Qualifiers:</b>	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	Page 19 of 33

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N71

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: MB-246266	Client ID:	Units: ug/Kg	Prep Date: 07/31/2017	Run No: 348635
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661083

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
sec-Butylbenzene	BRL	5.0									
Styrene	BRL	5.0									
tert-Butylbenzene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	45.37	0	50.00		90.7	70	130				
Surr: Dibromofluoromethane	47.50	0	50.00		95.0	70	130				
Surr: Toluene-d8	48.19	0	50.00		96.4	70	130				

Sample ID: LCS-246266	Client ID:	Units: ug/Kg	Prep Date: 07/31/2017	Run No: 348635
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661077

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	47.52	5.0	50.00		95.0	70	130				
1,1,1-Trichloroethane	47.01	5.0	50.00		94.0	70	130				
1,1,2,2-Tetrachloroethane	42.18	5.0	50.00		84.4	70	130				
1,1,2-Trichloroethane	44.26	5.0	50.00		88.5	70	130				
1,1-Dichloroethane	45.47	5.0	50.00		90.9	70	130				
1,1-Dichloroethene	41.88	5.0	50.00		83.8	60	140				
1,1-Dichloropropene	45.16	5.0	50.00		90.3	70	130				

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N71

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: LCS-246266 Client ID: Units: ug/Kg Prep Date: 07/31/2017 Run No: 348635  
 SampleType: LCS TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 246266 Analysis Date: 07/31/2017 Seq No: 7661077

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2,3-Trichlorobenzene	48.55	5.0	50.00		97.1	70	130				
1,2,3-Trichloropropane	47.17	5.0	50.00		94.3	70	130				
1,2,4-Trichlorobenzene	47.94	5.0	50.00		95.9	70	130				
1,2,4-Trimethylbenzene	46.52	5.0	50.00		93.0	70	130				
1,2-Dibromo-3-chloropropane	50.21	5.0	50.00		100	70	130				
1,2-Dibromoethane	44.61	5.0	50.00		89.2	70	130				
1,2-Dichlorobenzene	46.02	5.0	50.00		92.0	70	130				
1,2-Dichloroethane	44.75	5.0	50.00		89.5	70	130				
1,2-Dichloropropane	46.55	5.0	50.00		93.1	70	130				
1,3,5-Trimethylbenzene	45.88	5.0	50.00		91.8	70	130				
1,3-Dichlorobenzene	46.04	5.0	50.00		92.1	70	130				
1,3-Dichloropropane	46.29	5.0	50.00		92.6	70	130				
1,4-Dichlorobenzene	46.04	5.0	50.00		92.1	70	130				
2,2-Dichloropropane	51.36	5.0	50.00		103	70	130				
2-Chlorotoluene	46.21	5.0	50.00		92.4	70	130				
4-Chlorotoluene	46.44	5.0	50.00		92.9	70	130				
4-Isopropyltoluene	46.51	5.0	50.00		93.0	70	130				
Benzene	44.82	5.0	50.00		89.6	70	130				
Bromobenzene	44.34	5.0	50.00		88.7	70	130				
Bromochloromethane	45.81	5.0	50.00		91.6	70	130				
Bromodichloromethane	45.94	5.0	50.00		91.9	70	130				
Bromoform	47.82	5.0	50.00		95.6	70	130				
Carbon tetrachloride	49.13	5.0	50.00		98.3	70	130				
Chlorobenzene	46.82	5.0	50.00		93.6	70	130				
Chloroform	46.59	5.0	50.00		93.2	70	130				
cis-1,2-Dichloroethene	46.03	5.0	50.00		92.1	70	130				
cis-1,3-Dichloropropene	48.01	5.0	50.00		96.0	70	130				

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



Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N71

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: LCS-246266	Client ID:	Units: ug/Kg	Prep Date: 07/31/2017	Run No: 348635
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661077

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Dibromochloromethane	46.41	5.0	50.00		92.8	70	130				
Dibromomethane	44.12	5.0	50.00		88.2	70	130				
Ethylbenzene	46.47	5.0	50.00		92.9	70	130				
Hexachlorobutadiene	49.12	5.0	50.00		98.2	70	130				
Isopropylbenzene	43.71	5.0	50.00		87.4	70	130				
m,p-Xylene	102.9	5.0	100.0		103	70	130				
Methylene chloride	57.36	20	50.00		115	70	130				
n-Butylbenzene	48.35	5.0	50.00		96.7	70	130				
n-Propylbenzene	48.44	5.0	50.00		96.9	70	130				
Naphthalene	46.05	5.0	50.00		92.1	70	130				
o-Xylene	47.16	5.0	50.00		94.3	70	130				
sec-Butylbenzene	47.32	5.0	50.00		94.6	70	130				
Styrene	49.19	5.0	50.00		98.4	70	130				
tert-Butylbenzene	45.99	5.0	50.00		92.0	70	130				
Tetrachloroethene	48.18	5.0	50.00		96.4	70	130				
Toluene	45.17	5.0	50.00		90.3	70	130				
trans-1,2-Dichloroethene	41.06	5.0	50.00		82.1	70	130				
trans-1,3-Dichloropropene	49.96	5.0	50.00		99.9	70	130				
Trichloroethene	47.10	5.0	50.00		94.2	70	130				
Vinyl chloride	46.69	10	50.00		93.4	70	130				
Surr: 4-Bromofluorobenzene	53.77	0	50.00		108	70	130				
Surr: Dibromofluoromethane	49.70	0	50.00		99.4	70	130				
Surr: Toluene-d8	48.57	0	50.00		97.1	70	130				

Sample ID: 1707N71-003AMS	Client ID: B-10 (10')	Units: ug/Kg-dry	Prep Date: 07/31/2017	Run No: 348635
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661084

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N71

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: 1707N71-003AMS Client ID: B-10 (10') Units: ug/Kg-dry Prep Date: 07/31/2017 Run No: 348635  
 SampleType: MS TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 246266 Analysis Date: 07/31/2017 Seq No: 7661084

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	59.15	6.0	59.60		99.2	73.5	131				
1,1,1-Trichloroethane	57.95	6.0	59.60		97.2	71.4	136				
1,1,2,2-Tetrachloroethane	55.36	6.0	59.60		92.9	68.7	124				
1,1,2-Trichloroethane	58.92	6.0	59.60		98.9	75.2	125				
1,1-Dichloroethane	57.07	6.0	59.60		95.8	68.6	130				
1,1-Dichloroethene	51.36	6.0	59.60		86.2	55	143				
1,1-Dichloropropene	55.13	6.0	59.60		92.5	75.3	127				
1,2,3-Trichlorobenzene	63.08	6.0	59.60		106	65.7	130				
1,2,3-Trichloropropane	61.59	6.0	59.60		103	58.2	120				
1,2,4-Trichlorobenzene	61.29	6.0	59.60		103	64	129				
1,2,4-Trimethylbenzene	57.74	6.0	59.60		96.9	68.5	130				
1,2-Dibromo-3-chloropropane	63.45	6.0	59.60		106	57.2	129				
1,2-Dibromoethane	57.61	6.0	59.60		96.7	77.2	120				
1,2-Dichlorobenzene	58.84	6.0	59.60		98.7	74.6	121				
1,2-Dichloroethane	58.53	6.0	59.60		98.2	68.1	127				
1,2-Dichloropropane	60.12	6.0	59.60		101	74.4	122				
1,3,5-Trimethylbenzene	56.94	6.0	59.60		95.5	70.6	126				
1,3-Dichlorobenzene	57.73	6.0	59.60		96.9	71.9	122				
1,3-Dichloropropane	60.45	6.0	59.60		101	74.8	125				
1,4-Dichlorobenzene	57.91	6.0	59.60		97.2	70.7	123				
2,2-Dichloropropane	63.53	6.0	59.60		107	69.9	135				
2-Chlorotoluene	56.86	6.0	59.60		95.4	70.2	128				
4-Chlorotoluene	56.95	6.0	59.60		95.6	68.5	125				
4-Isopropyltoluene	57.80	6.0	59.60		97.0	70.2	131				
Benzene	55.96	6.0	59.60		93.9	68.5	128				
Bromobenzene	56.24	6.0	59.60		94.4	71.3	119				
Bromochloromethane	59.87	6.0	59.60		100	73	135				

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N71

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: 1707N71-003AMS Client ID: B-10 (10') Units: ug/Kg-dry Prep Date: 07/31/2017 Run No: 348635  
 SampleType: MS TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 246266 Analysis Date: 07/31/2017 Seq No: 7661084

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Bromodichloromethane	59.18	6.0	59.60		99.3	68	126				
Bromoform	61.24	6.0	59.60		103	63.5	125				
Carbon tetrachloride	58.88	6.0	59.60		98.8	67.7	138				
Chlorobenzene	57.35	6.0	59.60		96.2	67.7	126				
Chloroform	58.36	6.0	59.60		97.9	70.3	129				
cis-1,2-Dichloroethene	58.25	6.0	59.60		97.7	69.7	136				
cis-1,3-Dichloropropene	63.56	6.0	59.60		107	69.9	130				
Dibromochloromethane	59.78	6.0	59.60		100	70.3	129				
Dibromomethane	58.65	6.0	59.60		98.4	76.4	119				
Ethylbenzene	56.42	6.0	59.60		94.7	65.5	136				
Hexachlorobutadiene	62.53	6.0	59.60		105	62.7	137				
Isopropylbenzene	53.53	6.0	59.60		89.8	60.4	126				
m,p-Xylene	125.1	6.0	119.2	1.377	104	62.5	136				
Methylene chloride	64.55	24	59.60	7.838	95.1	63.4	130				
n-Butylbenzene	59.75	6.0	59.60		100	70.5	132				
n-Propylbenzene	58.74	6.0	59.60		98.6	69.6	123				
Naphthalene	59.97	6.0	59.60		101	61.4	136				
o-Xylene	58.46	6.0	59.60		98.1	68	129				
sec-Butylbenzene	58.37	6.0	59.60		97.9	72.2	127				
Styrene	61.26	6.0	59.60		103	72.6	127				
tert-Butylbenzene	57.39	6.0	59.60		96.3	71.5	131				
Tetrachloroethene	58.23	6.0	59.60		97.7	69.1	134				
Toluene	56.26	6.0	59.60	1.177	92.4	66.9	128				
trans-1,2-Dichloroethene	45.67	6.0	59.60		76.6	69.9	128				
trans-1,3-Dichloropropene	66.13	6.0	59.60		111	62	129				
Trichloroethene	59.24	6.0	59.60		99.4	60.7	133				
Vinyl chloride	60.11	12	59.60		101	59.4	129				

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N71

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: 1707N71-003AMS	Client ID: B-10 (10')	Units: ug/Kg-dry	Prep Date: 07/31/2017	Run No: 348635							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661084							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	63.57	0	59.60		107	70	130				
Surr: Dibromofluoromethane	58.66	0	59.60		98.4	70	130				
Surr: Toluene-d8	58.15	0	59.60		97.6	70	130				

Sample ID: 1707N71-003AMSD	Client ID: B-10 (10')	Units: ug/Kg-dry	Prep Date: 07/31/2017	Run No: 348635							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661085							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	55.74	6.0	59.60		93.5	73.5	131	59.15	5.93	20	
1,1,1-Trichloroethane	53.51	6.0	59.60		89.8	71.4	136	57.95	7.98	20	
1,1,2,2-Tetrachloroethane	54.70	6.0	59.60		91.8	68.7	124	55.36	1.19	20	
1,1,2-Trichloroethane	56.82	6.0	59.60		95.3	75.2	125	58.92	3.63	20	
1,1-Dichloroethane	52.28	6.0	59.60		87.7	68.6	130	57.07	8.76	20	
1,1-Dichloroethene	47.61	6.0	59.60		79.9	55	143	51.36	7.59	19.3	
1,1-Dichloropropene	50.59	6.0	59.60		84.9	75.3	127	55.13	8.59	20	
1,2,3-Trichlorobenzene	58.26	6.0	59.60		97.8	65.7	130	63.08	7.94	20	
1,2,3-Trichloropropane	60.36	6.0	59.60		101	58.2	120	61.59	2.01	20	
1,2,4-Trichlorobenzene	54.76	6.0	59.60		91.9	64	129	61.29	11.3	20	
1,2,4-Trimethylbenzene	52.84	6.0	59.60		88.7	68.5	130	57.74	8.86	20	
1,2-Dibromo-3-chloropropane	60.85	6.0	59.60		102	57.2	129	63.45	4.18	20	
1,2-Dibromoethane	56.56	6.0	59.60		94.9	77.2	120	57.61	1.84	20	
1,2-Dichlorobenzene	54.96	6.0	59.60		92.2	74.6	121	58.84	6.81	20	
1,2-Dichloroethane	54.72	6.0	59.60		91.8	68.1	127	58.53	6.72	20	
1,2-Dichloropropane	56.52	6.0	59.60		94.8	74.4	122	60.12	6.17	20	
1,3,5-Trimethylbenzene	51.85	6.0	59.60		87.0	70.6	126	56.94	9.36	20	
1,3-Dichlorobenzene	52.77	6.0	59.60		88.5	71.9	122	57.73	8.98	20	
1,3-Dichloropropane	59.53	6.0	59.60		99.9	74.8	125	60.45	1.53	20	
1,4-Dichlorobenzene	53.52	6.0	59.60		89.8	70.7	123	57.91	7.87	20	

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N71

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: 1707N71-003AMSD	Client ID: B-10 (10')	Units: ug/Kg-dry	Prep Date: 07/31/2017	Run No: 348635							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661085							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,2-Dichloropropane	53.47	6.0	59.60		89.7	69.9	135	63.53	17.2	19.2	
2-Chlorotoluene	53.40	6.0	59.60		89.6	70.2	128	56.86	6.27	20	
4-Chlorotoluene	52.51	6.0	59.60		88.1	68.5	125	56.95	8.12	20	
4-Isopropyltoluene	51.26	6.0	59.60		86.0	70.2	131	57.80	12.0	20	
Benzene	52.42	6.0	59.60		88.0	68.5	128	55.96	6.53	20	
Bromobenzene	53.68	6.0	59.60		90.1	71.3	119	56.24	4.66	20	
Bromochloromethane	57.01	6.0	59.60		95.7	73	135	59.87	4.89	20	
Bromodichloromethane	55.32	6.0	59.60		92.8	68	126	59.18	6.75	20	
Bromoform	57.13	6.0	59.60		95.9	63.5	125	61.24	6.95	20	
Carbon tetrachloride	54.33	6.0	59.60		91.2	67.7	138	58.88	8.04	20	
Chlorobenzene	53.70	6.0	59.60		90.1	67.7	126	57.35	6.57	20	
Chloroform	54.12	6.0	59.60		90.8	70.3	129	58.36	7.55	20	
cis-1,2-Dichloroethene	53.81	6.0	59.60		90.3	69.7	136	58.25	7.94	20	
cis-1,3-Dichloropropene	58.32	6.0	59.60		97.9	69.9	130	63.56	8.59	20	
Dibromochloromethane	57.37	6.0	59.60		96.3	70.3	129	59.78	4.11	20	
Dibromomethane	54.34	6.0	59.60		91.2	76.4	119	58.65	7.62	20	
Ethylbenzene	52.87	6.0	59.60		88.7	65.5	136	56.42	6.50	20	
Hexachlorobutadiene	55.81	6.0	59.60		93.6	62.7	137	62.53	11.4	20.1	
Isopropylbenzene	50.49	6.0	59.60		84.7	60.4	126	53.53	5.84	20	
m,p-Xylene	115.0	6.0	119.2	1.377	95.4	62.5	136	125.1	8.38	20	
Methylene chloride	62.97	24	59.60	7.838	92.5	63.4	130	64.55	2.47	20	
n-Butylbenzene	52.73	6.0	59.60		88.5	70.5	132	59.75	12.5	20	
n-Propylbenzene	53.81	6.0	59.60		90.3	69.6	123	58.74	8.77	20	
Naphthalene	58.42	6.0	59.60		98.0	61.4	136	59.97	2.62	20	
o-Xylene	53.47	6.0	59.60		89.7	68	129	58.46	8.90	20	
sec-Butylbenzene	52.98	6.0	59.60		88.9	72.2	127	58.37	9.68	20	
Styrene	55.59	6.0	59.60		93.3	72.6	127	61.26	9.69	20	

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N71

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: 1707N71-003AMSD Client ID: B-10 (10') Units: ug/Kg-dry Prep Date: 07/31/2017 Run No: 348635  
 SampleType: MSD TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 246266 Analysis Date: 07/31/2017 Seq No: 7661085

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
tert-Butylbenzene	52.70	6.0	59.60		88.4	71.5	131	57.39	8.53	20	
Tetrachloroethene	54.49	6.0	59.60		91.4	69.1	134	58.23	6.64	20	
Toluene	52.41	6.0	59.60	1.177	86.0	66.9	128	56.26	7.09	20	
trans-1,2-Dichloroethene	42.71	6.0	59.60		71.7	69.9	128	45.67	6.69	21.6	
trans-1,3-Dichloropropene	61.46	6.0	59.60		103	62	129	66.13	7.32	20	
Trichloroethene	53.08	6.0	59.60		89.1	60.7	133	59.24	11.0	20	
Vinyl chloride	52.36	12	59.60		87.9	59.4	129	60.11	13.8	20.3	
Surr: 4-Bromofluorobenzene	61.14	0	59.60		103	70	130	63.57	0	0	
Surr: Dibromofluoromethane	57.24	0	59.60		96.0	70	130	58.66	0	0	
Surr: Toluene-d8	58.34	0	59.60		97.9	70	130	58.15	0	0	

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N71

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246303

Sample ID: MB-246303	Client ID:	Units: ug/L	Prep Date: 08/01/2017	Run No: 348776							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246303	Analysis Date: 08/01/2017	Seq No: 7662779							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Carbon disulfide	BRL	5.0									
Naphthalene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	2.0									
Surr: 4-Bromofluorobenzene	43.00	0	50.00		86.0	70	130				
Surr: Dibromofluoromethane	54.53	0	50.00		109	70	130				
Surr: Toluene-d8	48.38	0	50.00		96.8	70	130				

Sample ID: MB-246303	Client ID:	Units: ug/L	Prep Date: 08/01/2017	Run No: 348776							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246303	Analysis Date: 08/01/2017	Seq No: 7662782							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	BRL	1.0									
1,1,1-Trichloroethane	BRL	1.0									
1,1,2,2-Tetrachloroethane	BRL	1.0									
1,1,2-Trichloroethane	BRL	1.0									
1,1-Dichloroethane	BRL	1.0									
1,1-Dichloroethene	BRL	2.0									
1,1-Dichloropropene	BRL	1.0									
1,2,3-Trichlorobenzene	BRL	1.0									
1,2,3-Trichloropropane	BRL	1.0									
1,2,4-Trichlorobenzene	BRL	1.0									
1,2,4-Trimethylbenzene	BRL	1.0									
1,2-Dibromo-3-chloropropane	BRL	1.0									
1,2-Dibromoethane	BRL	1.0									
1,2-Dichlorobenzene	BRL	1.0									
1,2-Dichloroethane	BRL	1.0									
1,2-Dichloropropane	BRL	1.0									
1,3,5-Trimethylbenzene	BRL	1.0									

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N71

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246303

Sample ID: MB-246303	Client ID:	Units: ug/L	Prep Date: 08/01/2017	Run No: 348776
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246303	Analysis Date: 08/01/2017	Seq No: 7662782

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,3-Dichlorobenzene	BRL	1.0									
1,3-Dichloropropane	BRL	1.0									
1,4-Dichlorobenzene	BRL	1.0									
2,2-Dichloropropane	BRL	2.0									
2-Butanone	BRL	10									
2-Chlorotoluene	BRL	1.0									
2-Hexanone	BRL	10									
4-Chlorotoluene	BRL	1.0									
4-Isopropyltoluene	BRL	2.0									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	20									
Acrolein	BRL	20									
Acrylonitrile	BRL	5.0									
Benzene	BRL	1.0									
Bromobenzene	BRL	1.0									
Bromochloromethane	BRL	1.0									
Bromodichloromethane	BRL	1.0									
Bromoform	BRL	1.0									
Bromomethane	BRL	1.0									
Carbon tetrachloride	BRL	2.0									
Chlorobenzene	BRL	1.0									
Chloroethane	BRL	1.0									
Chloroform	BRL	1.0									
Chloromethane	BRL	1.0									
cis-1,2-Dichloroethene	BRL	1.0									
cis-1,3-Dichloropropene	BRL	1.0									
Dibromochloromethane	BRL	1.0									

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



Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N71

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246303

Sample ID: MB-246303	Client ID:	Units: ug/L	Prep Date: 08/01/2017	Run No: 348776							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246303	Analysis Date: 08/01/2017	Seq No: 7662782							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Dibromomethane	BRL	1.0									
Dichlorodifluoromethane	BRL	1.0									
Ethylbenzene	BRL	1.0									
Hexachlorobutadiene	BRL	1.0									
Isopropylbenzene	BRL	1.0									
m,p-Xylene	BRL	1.0									
Methylene chloride	BRL	5.0									
n-Butylbenzene	BRL	1.0									
n-Propylbenzene	BRL	1.0									
o-Xylene	BRL	1.0									
sec-Butylbenzene	BRL	2.0									
Styrene	BRL	1.0									
tert-Butylbenzene	BRL	1.0									
Tetrachloroethene	BRL	1.0									
Toluene	BRL	1.0									
trans-1,2-Dichloroethene	BRL	2.0									
Trichloroethene	BRL	1.0									
Trichlorofluoromethane	BRL	1.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	1.0									
Surr: 4-Bromofluorobenzene	43.00	0	50.00		86.0	66.1	129				
Surr: Dibromofluoromethane	54.53	0	50.00		109	83.6	123				
Surr: Toluene-d8	48.38	0	50.00		96.8	81.8	118				

Sample ID: LCS-246303	Client ID:	Units: ug/L	Prep Date: 08/01/2017	Run No: 348776							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246303	Analysis Date: 08/01/2017	Seq No: 7662780							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N71

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246303

Sample ID: LCS-246303	Client ID:	Units: ug/L			Prep Date: 08/01/2017	Run No: 348776					
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS	SW8260B	BatchID: 246303		Analysis Date: 08/01/2017	Seq No: 7662780					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Naphthalene	19.69	5.0	20.00		98.4	70	130				
trans-1,3-Dichloropropene	21.57	2.0	20.00		108	70	130				
Surr: 4-Bromofluorobenzene	49.17	0	50.00		98.3	70	130				
Surr: Dibromofluoromethane	53.74	0	50.00		107	70	130				
Surr: Toluene-d8	50.49	0	50.00		101	70	130				

Sample ID: LCS-246303	Client ID:	Units: ug/L			Prep Date: 08/01/2017	Run No: 348776					
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS	SW8260B	BatchID: 246303		Analysis Date: 08/01/2017	Seq No: 7662783					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	21.13	2.0	20.00		106	68	139				
Benzene	20.39	1.0	20.00		102	74	125				
Chlorobenzene	23.10	1.0	20.00		116	75.7	123				
Toluene	21.44	1.0	20.00		107	75.9	126				
Trichloroethene	23.18	1.0	20.00		116	70.6	129				
Surr: 4-Bromofluorobenzene	49.17	0	50.00		98.3	66.1	129				
Surr: Dibromofluoromethane	53.74	0	50.00		107	83.6	123				
Surr: Toluene-d8	50.49	0	50.00		101	81.8	118				

Sample ID: 1707N07-003AMS	Client ID:	Units: ug/L			Prep Date: 08/01/2017	Run No: 348776					
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS	SW8260B	BatchID: 246303		Analysis Date: 08/01/2017	Seq No: 7662849					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Naphthalene	7775	2500	10000		77.8	51.8	132				
trans-1,3-Dichloropropene	7800	1000	10000		78.0	69.7	137				
Surr: 4-Bromofluorobenzene	25730	0	25000		103	70	130				
Surr: Dibromofluoromethane	27800	0	25000		111	70	130				
Surr: Toluene-d8	25560	0	25000		102	70	130				

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N71

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246303

Sample ID: 1707N07-003AMS	Client ID:	Units: ug/L	Prep Date: 08/01/2017	Run No: 348776							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246303	Analysis Date: 08/01/2017	Seq No: 7662851							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	8350	1000	10000		83.5	64.3	149				
Benzene	7615	500	10000	210.0	74.0	71.6	132				
Chlorobenzene	8375	500	10000		83.8	73.1	126				
Toluene	8995	500	10000	970.0	80.2	72.5	135				
Trichloroethene	7865	500	10000		78.6	70.2	132				
Surr: 4-Bromofluorobenzene	25730	0	25000		103	66.1	129				
Surr: Dibromofluoromethane	27800	0	25000		111	83.6	123				
Surr: Toluene-d8	25560	0	25000		102	81.8	118				

Sample ID: 1707N07-003AMSD	Client ID:	Units: ug/L	Prep Date: 08/01/2017	Run No: 348776							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246303	Analysis Date: 08/01/2017	Seq No: 7662850							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Naphthalene	9370	2500	10000		93.7	51.8	132	7775	18.6	37.8	
trans-1,3-Dichloropropene	8350	1000	10000		83.5	69.7	137	7800	6.81	20	
Surr: 4-Bromofluorobenzene	26330	0	25000		105	70	130	25730	0	0	
Surr: Dibromofluoromethane	27030	0	25000		108	70	130	27800	0	0	
Surr: Toluene-d8	25470	0	25000		102	70	130	25560	0	0	

Sample ID: 1707N07-003AMSD	Client ID:	Units: ug/L	Prep Date: 08/01/2017	Run No: 348776							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246303	Analysis Date: 08/01/2017	Seq No: 7662852							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	8635	1000	10000		86.4	64.3	149	8350	3.36	30.8	
Benzene	8065	500	10000	210.0	78.6	71.6	132	7615	5.74	20.7	
Chlorobenzene	8675	500	10000		86.8	73.1	126	8375	3.52	26.6	
Toluene	9345	500	10000	970.0	83.8	72.5	135	8995	3.82	23.2	
Trichloroethene	8265	500	10000		82.6	70.2	132	7865	4.96	27.7	

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N71

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 246303**

Sample ID: 1707N07-003AMSD	Client ID:	Units: ug/L	Prep Date: 08/01/2017	Run No: 348776							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246303	Analysis Date: 08/01/2017	Seq No: 7662852							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	26330	0	25000		105	66.1	129	25730	0	0	
Surr: Dibromofluoromethane	27030	0	25000		108	83.6	123	27800	0	0	
Surr: Toluene-d8	25470	0	25000		102	81.8	118	25560	0	0	

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



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 02, 2017

Leona Miles  
Atlanta Environmental Mgmt  
2580 NE Expressway  
Atlanta GA 30345

RE: Honea Path

Dear Leona Miles:

Order No: 1707N72

Analytical Environmental Services, Inc. received 4 samples on 7/27/2017 6:20:00 PM  
for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated  
Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the  
analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES'  
certifications are as follows:

-South Carolina Certification number 98016003 for Clean Water Act and for Solid and Hazardous Waste,  
effective until 6/30/18.

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

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

Sincerely,

Ioana Pacurar  
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC.  
 3080 Presidential Drive Atlanta, GA 30340-3704  
 Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 107172

Date: 7/27/17 Page 1 of 1

COMPANY: <b>ATLANTA ENVIRONMENTAL MANAGEMENT, INC.</b>		ADDRESS: <b>2580 NE Expressway Atlanta, GA 30345</b>		ANALYSIS REQUESTED						Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> for downloadable COCs and to log in to your AESAccess account.	Number of Containers												
PHONE: <b>404-329-9066</b>		EMAIL: <b>leona-mikes@aem-net.com</b>		<table border="1"> <tr> <td colspan="6">PRESERVATION (see codes)</td> </tr> <tr> <td> </td><td> </td><td> </td><td> </td><td> </td><td> </td> </tr> </table>								PRESERVATION (see codes)											
PRESERVATION (see codes)																							
SAMPLED BY: <b>Tony L Gordon</b>		SIGNATURE: <i>Tony L Gordon</i>		REMARKS																			
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)																	
		DATE	TIME																				
1	B-9 (1')	7/27/17	1045	X		SO					HOLD	4											
2	B-9 (5')	7/27/17	1050	X		SO	X					4											
3	B-9 (10')	7/27/17	1055	X		SO	X					4											
4	B-9 (15')	7/27/17	1100	X		SO	X					4											
5	B-9 (20')	7/27/17	1105	X		SO					HOLD	4											
6																							
7	Trip Blank			X								2											
8																							
9																							
10																							
11																							
12																							
13																							
14																							
RELINQUISHED BY: <i>Tony L Gordon</i>		DATE/TIME: <i>7/27/17 (1525)</i>		RECEIVED BY: <i>Alissa</i>		DATE/TIME: <i>1525 7/27/17</i>		PROJECT INFORMATION			RECEIPT												
1. <i>Alissa</i>		2. <i>Bm Ba</i>		3. <i>(10')</i>		PROJECT NAME: <b>Honca Path</b>			Total # of Containers: <b>22</b>														
2. <i>Alissa</i>		3. <i>Alissa</i>		PROJECT #: <b>1320-1701</b>			SITE ADDRESS: <b>415 Brick Mill Rd. Honca Path, SC 29654</b>			Turnaround Time (TAT) Request: <input checked="" type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other													
3. <i>Alissa</i>		SPECIAL INSTRUCTIONS/COMMENTS: <i>Hold sample marked as "Hold" pending initial analytical results</i>			SHIPMENT METHOD			INVOICE TO: <i>leona-mikes@aem-net.com (EDD to Leona)</i>			STATE PROGRAM (if any): E-mail? <input checked="" type="checkbox"/> Fax? <input type="checkbox"/> DATA PACKAGE: I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>												
OUT: <i>client</i> VIA: <i>FedEx</i>				IN: <i>client</i> VIA: <i>FedEx</i>				QUOTE #:			PO#:												

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

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

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

White Copy - Original; Yellow Copy - Client

**Client:** Atlanta Environmental Mgmt  
**Project:** Honea Path  
**Lab ID:** 1707N72

**Case Narrative**

Sample Receiving Non-conformance:

The date listed on the Chain of Custody in the top right corner is 2/28/17; however, per Leona Miles with Atlanta Environmental Management via e-mail on 7/28/17 at 7:48 AM, the date was supposed to be 7/27/17. The laboratory proceeded as instructed.

**Analytical Environmental Services, Inc**

Date: 2-Aug-17

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-9 (5')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 10:50:00 AM
<b>Lab ID:</b> 1707N72-002	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B</b>				<b>(SW5035)</b>				
Dichlorodifluoromethane	BRL	11		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Chloromethane	BRL	11		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Vinyl chloride	BRL	11		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Bromomethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Chloroethane	BRL	11		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Trichlorofluoromethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Acrolein	BRL	56		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
1,1-Dichloroethene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Acetone	BRL	110		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Carbon disulfide	BRL	11		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Vinyl acetate	BRL	11		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Methylene chloride	BRL	22		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Acrylonitrile	BRL	56		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
trans-1,2-Dichloroethene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
1,1-Dichloroethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
2,2-Dichloropropane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
cis-1,2-Dichloroethene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
2-Butanone	BRL	56		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Bromochloromethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Chloroform	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
1,1,1-Trichloroethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
1,1-Dichloropropene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Carbon tetrachloride	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Benzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
1,2-Dichloroethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Trichloroethene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
1,2-Dichloropropane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Dibromomethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Bromodichloromethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
cis-1,3-Dichloropropene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
4-Methyl-2-pentanone	BRL	11		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Toluene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
trans-1,3-Dichloropropene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
1,1,2-Trichloroethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
2-Hexanone	BRL	11		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Tetrachloroethene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
1,3-Dichloropropane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Dibromochloromethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
1,2-Dibromoethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Chlorobenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
1,1,1,2-Tetrachloroethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD

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



<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-9 (5')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 10:50:00 AM
<b>Lab ID:</b> 1707N72-002	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Ethylbenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
m,p-Xylene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
o-Xylene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Styrene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Bromoform	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Bromobenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
1,1,2,2-Tetrachloroethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
1,2,3-Trichloropropane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Isopropylbenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Naphthalene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
2-Chlorotoluene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
4-Chlorotoluene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
1,3,5-Trimethylbenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
tert-Butylbenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
1,2,4-Trimethylbenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
sec-Butylbenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
1,3-Dichlorobenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
4-Isopropyltoluene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
1,4-Dichlorobenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
1,2-Dichlorobenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
n-Propylbenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
1,2-Dibromo-3-chloropropane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
1,2,4-Trichlorobenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Hexachlorobutadiene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
n-Butylbenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
1,2,3-Trichlorobenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 15:00	MD
Surr: 4-Bromofluorobenzene	91.6	70-130		%REC	246266	1	07/31/2017 15:00	MD
Surr: Dibromofluoromethane	94.3	70-130		%REC	246266	1	07/31/2017 15:00	MD
Surr: Toluene-d8	96.2	70-130		%REC	246266	1	07/31/2017 15:00	MD

**PERCENT MOISTURE D2216**

Percent Moisture	18.6	0		wt%	R348804	1	08/01/2017 13:00	VH
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<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 2-Aug-17

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-9 (10')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 10:55:00 AM
<b>Lab ID:</b> 1707N72-003	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Dichlorodifluoromethane	BRL	11		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Chloromethane	BRL	11		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Vinyl chloride	BRL	11		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Bromomethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Chloroethane	BRL	11		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Trichlorofluoromethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Acrolein	BRL	56		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
1,1-Dichloroethene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Acetone	BRL	110		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Carbon disulfide	BRL	11		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Vinyl acetate	BRL	11		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Methylene chloride	BRL	22		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Acrylonitrile	BRL	56		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
trans-1,2-Dichloroethene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
1,1-Dichloroethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
2,2-Dichloropropane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
cis-1,2-Dichloroethene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
2-Butanone	BRL	56		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Bromochloromethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Chloroform	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
1,1,1-Trichloroethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
1,1-Dichloropropene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Carbon tetrachloride	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Benzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
1,2-Dichloroethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Trichloroethene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
1,2-Dichloropropane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Dibromomethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Bromodichloromethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
cis-1,3-Dichloropropene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
4-Methyl-2-pentanone	BRL	11		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Toluene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
trans-1,3-Dichloropropene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
1,1,2-Trichloroethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
2-Hexanone	BRL	11		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Tetrachloroethene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
1,3-Dichloropropane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Dibromochloromethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
1,2-Dibromoethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Chlorobenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
1,1,1,2-Tetrachloroethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD

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

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-9 (10')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 10:55:00 AM
<b>Lab ID:</b> 1707N72-003	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Ethylbenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
m,p-Xylene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
o-Xylene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Styrene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Bromoform	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Bromobenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
1,1,2,2-Tetrachloroethane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
1,2,3-Trichloropropane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Isopropylbenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Naphthalene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
2-Chlorotoluene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
4-Chlorotoluene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
1,3,5-Trimethylbenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
tert-Butylbenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
1,2,4-Trimethylbenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
sec-Butylbenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
1,3-Dichlorobenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
4-Isopropyltoluene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
1,4-Dichlorobenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
1,2-Dichlorobenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
n-Propylbenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
1,2-Dibromo-3-chloropropane	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
1,2,4-Trichlorobenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Hexachlorobutadiene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
n-Butylbenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
1,2,3-Trichlorobenzene	BRL	5.6		ug/Kg-dry	246266	1	07/31/2017 14:12	MD
Surr: 4-Bromofluorobenzene	88.8	70-130		%REC	246266	1	07/31/2017 14:12	MD
Surr: Dibromofluoromethane	93.5	70-130		%REC	246266	1	07/31/2017 14:12	MD
Surr: Toluene-d8	97.6	70-130		%REC	246266	1	07/31/2017 14:12	MD

**PERCENT MOISTURE D2216**

Percent Moisture	15.9	0		wt%	R348804	1	08/01/2017 13:00	VH
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<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 2-Aug-17

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-9 (15')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 11:00:00 AM
<b>Lab ID:</b> 1707N72-004	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Dichlorodifluoromethane	BRL	12		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Chloromethane	BRL	12		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Vinyl chloride	BRL	12		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Bromomethane	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Chloroethane	BRL	12		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Trichlorofluoromethane	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Acrolein	BRL	59		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
1,1-Dichloroethene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Acetone	BRL	120		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Carbon disulfide	BRL	12		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Vinyl acetate	BRL	12		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Methylene chloride	BRL	24		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Acrylonitrile	BRL	59		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
trans-1,2-Dichloroethene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
1,1-Dichloroethane	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
2,2-Dichloropropane	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
cis-1,2-Dichloroethene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
2-Butanone	BRL	59		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Bromochloromethane	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Chloroform	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
1,1,1-Trichloroethane	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
1,1-Dichloropropene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Carbon tetrachloride	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Benzene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
1,2-Dichloroethane	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Trichloroethene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
1,2-Dichloropropane	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Dibromomethane	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Bromodichloromethane	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
cis-1,3-Dichloropropene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
4-Methyl-2-pentanone	BRL	12		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Toluene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
trans-1,3-Dichloropropene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
1,1,2-Trichloroethane	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
2-Hexanone	BRL	12		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Tetrachloroethene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
1,3-Dichloropropane	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Dibromochloromethane	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
1,2-Dibromoethane	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Chlorobenzene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
1,1,1,2-Tetrachloroethane	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD

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

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-9 (15')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 11:00:00 AM
<b>Lab ID:</b> 1707N72-004	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Ethylbenzene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
m,p-Xylene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
o-Xylene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Styrene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Bromoform	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Bromobenzene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
1,1,2,2-Tetrachloroethane	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
1,2,3-Trichloropropane	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Isopropylbenzene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Naphthalene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
2-Chlorotoluene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
4-Chlorotoluene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
1,3,5-Trimethylbenzene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
tert-Butylbenzene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
1,2,4-Trimethylbenzene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
sec-Butylbenzene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
1,3-Dichlorobenzene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
4-Isopropyltoluene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
1,4-Dichlorobenzene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
1,2-Dichlorobenzene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
n-Propylbenzene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
1,2-Dibromo-3-chloropropane	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
1,2,4-Trichlorobenzene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Hexachlorobutadiene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
n-Butylbenzene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
1,2,3-Trichlorobenzene	BRL	5.9		ug/Kg-dry	246266	1	07/31/2017 14:36	MD
Surr: 4-Bromofluorobenzene	90.3	70-130		%REC	246266	1	07/31/2017 14:36	MD
Surr: Dibromofluoromethane	92.3	70-130		%REC	246266	1	07/31/2017 14:36	MD
Surr: Toluene-d8	98.7	70-130		%REC	246266	1	07/31/2017 14:36	MD

**PERCENT MOISTURE D2216**

Percent Moisture	17.4	0		wt%	R348804	1	08/01/2017 13:00	VH
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<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017
<b>Lab ID:</b> 1707N72-006	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5030B)</b>								
1,1,1,2-Tetrachloroethane	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
1,1,1-Trichloroethane	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
1,1,2-Trichloroethane	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
1,1-Dichloroethane	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
1,1-Dichloroethene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
1,1-Dichloropropene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
1,2,3-Trichlorobenzene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
1,2,3-Trichloropropane	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
1,2,4-Trimethylbenzene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
1,2-Dibromoethane	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
1,2-Dichlorobenzene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
1,2-Dichloroethane	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
1,2-Dichloropropane	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
1,3,5-Trimethylbenzene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
1,3-Dichlorobenzene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
1,3-Dichloropropane	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
1,4-Dichlorobenzene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
2,2-Dichloropropane	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
2-Butanone	BRL	10		ug/L	246175	1	08/01/2017 18:09	NP
2-Chlorotoluene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
2-Hexanone	BRL	5.0		ug/L	246175	1	08/01/2017 18:09	NP
4-Chlorotoluene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
4-Isopropyltoluene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
4-Methyl-2-pentanone	BRL	5.0		ug/L	246175	1	08/01/2017 18:09	NP
Acetone	BRL	10		ug/L	246175	1	08/01/2017 18:09	NP
Acrolein	BRL	5.0		ug/L	246175	1	08/01/2017 18:09	NP
Acrylonitrile	BRL	5.0		ug/L	246175	1	08/01/2017 18:09	NP
Benzene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
Bromobenzene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
Bromochloromethane	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
Bromodichloromethane	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
Bromoform	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
Bromomethane	BRL	2.0		ug/L	246175	1	08/01/2017 18:09	NP
Carbon disulfide	BRL	2.0		ug/L	246175	1	08/01/2017 18:09	NP
Carbon tetrachloride	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
Chlorobenzene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
Chloroethane	BRL	2.0		ug/L	246175	1	08/01/2017 18:09	NP
Chloroform	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017
<b>Lab ID:</b> 1707N72-006	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5030B)</b>								
Chloromethane	BRL	2.0		ug/L	246175	1	08/01/2017 18:09	NP
cis-1,2-Dichloroethene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
cis-1,3-Dichloropropene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
Dibromochloromethane	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
Dibromomethane	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
Dichlorodifluoromethane	BRL	2.0		ug/L	246175	1	08/01/2017 18:09	NP
Ethylbenzene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
Hexachlorobutadiene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
Isopropylbenzene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
m,p-Xylene	BRL	2.0		ug/L	246175	1	08/01/2017 18:09	NP
Methylene chloride	BRL	2.0		ug/L	246175	1	08/01/2017 18:09	NP
n-Butylbenzene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
n-Propylbenzene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
Naphthalene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
o-Xylene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
sec-Butylbenzene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
Styrene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
tert-Butylbenzene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
Tetrachloroethene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
Toluene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
trans-1,2-Dichloroethene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
trans-1,3-Dichloropropene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
Trichloroethene	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
Trichlorofluoromethane	BRL	1.0		ug/L	246175	1	08/01/2017 18:09	NP
Vinyl acetate	BRL	5.0		ug/L	246175	1	08/01/2017 18:09	NP
Vinyl chloride	BRL	2.0		ug/L	246175	1	08/01/2017 18:09	NP
Surr: 4-Bromofluorobenzene	83	66.1-129		%REC	246175	1	08/01/2017 18:09	NP
Surr: 4-Bromofluorobenzene	83	70-130		%REC	246175	1	08/01/2017 18:09	NP
Surr: Dibromofluoromethane	107	70-130		%REC	246175	1	08/01/2017 18:09	NP
Surr: Dibromofluoromethane	107	83.6-123		%REC	246175	1	08/01/2017 18:09	NP
Surr: Toluene-d8	96.1	70-130		%REC	246175	1	08/01/2017 18:09	NP
Surr: Toluene-d8	96.1	81.8-118		%REC	246175	1	08/01/2017 18:09	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



SAMPLE/COOLER RECEIPT CHECKLIST

Clear Save as

1. Client Name: Atlanta Environmental Mgmt

AES Work Order Number: 1707N71

2. Carrier: FedEx UPS USPS Client Courier Other

Table with 5 columns: Question, Yes, No, N/A, Details, Comments. Rows 3-12 covering shipping container and cooler conditions.

13. Cooler 1 Temperature 1.2 °C Cooler 2 Temperature °C Cooler 3 Temperature °C Cooler 4 Temperature °C
14. Cooler 5 Temperature °C Cooler 6 Temperature °C Cooler 7 Temperature °C Cooler 8 Temperature °C

15. Comments: I certify that I have completed sections 1-15 (dated initials). MJ 7/27/17

Table with 5 columns: Question, Yes, No, N/A, Details, Comments. Rows 16-26 covering sample container and COC details.

27. Comments: I certify that I have completed sections 16-27 (dated initials). AJ 7/28/17

This section only applies to samples where pH can be checked at Sample Receipt.

Table with 5 columns: Question, Yes, No, N/A, Details, Comments. Rows 28-30 covering pH and chemical preservation.

\* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). AJ 7/28/17 Page 12 of 26

Locked



Client: Atlanta Environmental Mgmt  
 Project Name: Honca Path  
 Workorder: 1707N72

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246175

Sample ID: MB-246175	Client ID:	Units: ug/L	Prep Date: 07/28/2017	Run No: 348605							
Sample Type: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246175	Analysis Date: 07/28/2017	Seq No: 7658369							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Carbon disulfide	BRL	5.0									
Naphthalene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	2.0									
Surr: 4-Bromofluorobenzene	44.01	0	50.00		88.0	70	130				
Surr: Dibromofluoromethane	49.73	0	50.00		99.5	70	130				
Surr: Toluene-d8	48.18	0	50.00		96.4	70	130				

Sample ID: MB-246175	Client ID:	Units: ug/L	Prep Date: 07/28/2017	Run No: 348605							
Sample Type: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246175	Analysis Date: 07/28/2017	Seq No: 7663464							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	BRL	1.0									
1,1,1-Trichloroethane	BRL	1.0									
1,1,2,2-Tetrachloroethane	BRL	1.0									
1,1,2-Trichloroethane	BRL	1.0									
1,1-Dichloroethane	BRL	1.0									
1,1-Dichloroethene	BRL	2.0									
1,1-Dichloropropene	BRL	1.0									
1,2,3-Trichlorobenzene	BRL	1.0									
1,2,3-Trichloropropane	BRL	1.0									
1,2,4-Trichlorobenzene	BRL	1.0									
1,2,4-Trimethylbenzene	BRL	1.0									
1,2-Dibromo-3-chloropropane	BRL	1.0									
1,2-Dibromoethane	BRL	1.0									
1,2-Dichlorobenzene	BRL	1.0									
1,2-Dichloroethane	BRL	1.0									
1,2-Dichloropropane	BRL	1.0									

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N72

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246175

Sample ID: MB-246175 Client ID: Units: ug/L Prep Date: 07/28/2017 Run No: 348605  
 SampleType: MBLK TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 246175 Analysis Date: 07/28/2017 Seq No: 7663464

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,3,5-Trimethylbenzene	BRL	1.0									
1,3-Dichlorobenzene	BRL	1.0									
1,3-Dichloropropane	BRL	1.0									
1,4-Dichlorobenzene	BRL	1.0									
2,2-Dichloropropane	BRL	2.0									
2-Butanone	BRL	10									
2-Chlorotoluene	BRL	1.0									
2-Hexanone	BRL	10									
4-Chlorotoluene	BRL	1.0									
4-Isopropyltoluene	BRL	2.0									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	20									
Acrolein	BRL	20									
Acrylonitrile	BRL	5.0									
Benzene	BRL	1.0									
Bromobenzene	BRL	1.0									
Bromochloromethane	BRL	1.0									
Bromodichloromethane	BRL	1.0									
Bromoforn	BRL	1.0									
Bromomethane	BRL	1.0									
Carbon tetrachloride	BRL	2.0									
Chlorobenzene	BRL	1.0									
Chloroethane	BRL	1.0									
Chloroform	BRL	1.0									
Chloromethane	BRL	1.0									
cis-1,2-Dichloroethene	BRL	1.0									
cis-1,3-Dichloropropene	BRL	1.0									

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N72

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246175

Sample ID: MB-246175 Client ID: Units: ug/L Prep Date: 07/28/2017 Run No: 348605  
 SampleType: MBLK TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 246175 Analysis Date: 07/28/2017 Seq No: 7663464

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Dibromochloromethane	BRL	1.0									
Dibromomethane	BRL	1.0									
Dichlorodifluoromethane	BRL	1.0									
Ethylbenzene	BRL	1.0									
Hexachlorobutadiene	BRL	1.0									
Isopropylbenzene	BRL	1.0									
m,p-Xylene	BRL	1.0									
Methylene chloride	BRL	5.0									
n-Butylbenzene	BRL	1.0									
n-Propylbenzene	BRL	1.0									
o-Xylene	BRL	1.0									
sec-Butylbenzene	BRL	2.0									
Styrene	BRL	1.0									
tert-Butylbenzene	BRL	1.0									
Tetrachloroethene	BRL	1.0									
Toluene	BRL	1.0									
trans-1,2-Dichloroethene	BRL	2.0									
Trichloroethene	BRL	1.0									
Trichlorofluoromethane	BRL	1.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	1.0									
Surr: 4-Bromofluorobenzene	44.01	0	50.00		88.0	66.1	129				
Surr: Dibromofluoromethane	49.73	0	50.00		99.5	83.6	123				
Surr: Toluene-d8	48.18	0	50.00		96.4	81.8	118				

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N72

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246175

Sample ID: LCS-246175	Client ID:	Units: ug/L			Prep Date: 07/28/2017	Run No: 348605					
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS	SW8260B	BatchID: 246175		Analysis Date: 07/29/2017	Seq No: 7658382					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Naphthalene	21.02	5.0	20.00		105	70	130				
trans-1,3-Dichloropropene	18.48	2.0	20.00		92.4	70	130				
Surr: 4-Bromofluorobenzene	47.98	0	50.00		96.0	70	130				
Surr: Dibromofluoromethane	50.95	0	50.00		102	70	130				
Surr: Toluene-d8	47.95	0	50.00		95.9	70	130				

Sample ID: LCS-246175	Client ID:	Units: ug/L			Prep Date: 07/28/2017	Run No: 348605					
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS	SW8260B	BatchID: 246175		Analysis Date: 07/29/2017	Seq No: 7663465					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	18.54	2.0	20.00		92.7	68	139				
Benzene	19.18	1.0	20.00		95.9	74	125				
Chlorobenzene	22.07	1.0	20.00		110	75.7	123				
Toluene	19.62	1.0	20.00		98.1	75.9	126				
Trichloroethene	21.63	1.0	20.00		108	70.6	129				
Surr: 4-Bromofluorobenzene	47.98	0	50.00		96.0	66.1	129				
Surr: Dibromofluoromethane	50.95	0	50.00		102	83.6	123				
Surr: Toluene-d8	47.95	0	50.00		95.9	81.8	118				

Sample ID: 1707J98-001AMS	Client ID:	Units: ug/L			Prep Date: 07/28/2017	Run No: 348605					
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS	SW8260B	BatchID: 246175		Analysis Date: 07/29/2017	Seq No: 7658385					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Naphthalene	19.99	5.0	20.00		100.0	51.8	132				
trans-1,3-Dichloropropene	18.84	2.0	20.00		94.2	69.7	137				
Surr: 4-Bromofluorobenzene	47.16	0	50.00		94.3	70	130				
Surr: Dibromofluoromethane	50.60	0	50.00		101	70	130				
Surr: Toluene-d8	47.75	0	50.00		95.5	70	130				

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N72

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246175

Sample ID: 1707J98-001AMS	Client ID:	Units: ug/L	Prep Date: 07/28/2017	Run No: 348605							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246175	Analysis Date: 07/29/2017	Seq No: 7663467							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	18.82	2.0	20.00		94.1	64.3	149				
Benzene	19.63	1.0	20.00		98.2	71.6	132				
Chlorobenzene	22.45	1.0	20.00		112	73.1	126				
Toluene	20.28	1.0	20.00		101	72.5	135				
Trichloroethene	22.40	1.0	20.00		112	70.2	132				
Surr: 4-Bromofluorobenzene	47.16	0	50.00		94.3	66.1	129				
Surr: Dibromofluoromethane	50.60	0	50.00		101	83.6	123				
Surr: Toluene-d8	47.75	0	50.00		95.5	81.8	118				

Sample ID: 1707J98-001AMSD	Client ID:	Units: ug/L	Prep Date: 07/28/2017	Run No: 348605							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246175	Analysis Date: 07/29/2017	Seq No: 7658386							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Naphthalene	20.69	5.0	20.00		103	51.8	132	19.99	3.44	37.8	
trans-1,3-Dichloropropene	18.81	2.0	20.00		94.0	69.7	137	18.84	0.159	20	
Surr: 4-Bromofluorobenzene	47.11	0	50.00		94.2	70	130	47.16	0	0	
Surr: Dibromofluoromethane	49.78	0	50.00		99.6	70	130	50.60	0	0	
Surr: Toluene-d8	46.73	0	50.00		93.5	70	130	47.75	0	0	

Sample ID: 1707J98-001AMSD	Client ID:	Units: ug/L	Prep Date: 07/28/2017	Run No: 348605							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246175	Analysis Date: 07/29/2017	Seq No: 7663468							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	19.75	2.0	20.00		98.8	64.3	149	18.82	4.82	30.8	
Benzene	19.16	1.0	20.00		95.8	71.6	132	19.63	2.42	20.7	
Chlorobenzene	22.37	1.0	20.00		112	73.1	126	22.45	0.357	26.6	
Toluene	19.41	1.0	20.00		97.0	72.5	135	20.28	4.38	23.2	
Trichloroethene	21.41	1.0	20.00		107	70.2	132	22.40	4.52	27.7	

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N72

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246175

Sample ID: 1707J98-001AMSD	Client ID:	Units: ug/L	Prep Date: 07/28/2017	Run No: 348605
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246175	Analysis Date: 07/29/2017	Seq No: 7663468

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	47.11	0	50.00		94.2	66.1	129	47.16	0	0	
Surr: Dibromofluoromethane	49.78	0	50.00		99.6	83.6	123	50.60	0	0	
Surr: Toluene-d8	46.73	0	50.00		93.5	81.8	118	47.75	0	0	

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N72

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: MB-246266	Client ID:	Units: ug/Kg	Prep Date: 07/31/2017	Run No: 348635
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661083

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	BRL	5.0									
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,1-Dichloropropene	BRL	5.0									
1,2,3-Trichlorobenzene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2,4-Trimethylbenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3,5-Trimethylbenzene	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,3-Dichloropropane	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2,2-Dichloropropane	BRL	5.0									
2-Butanone	BRL	50									
2-Chlorotoluene	BRL	5.0									
2-Hexanone	BRL	10									
4-Chlorotoluene	BRL	5.0									
4-Isopropyltoluene	BRL	5.0									
4-Methyl-2-pentanone	BRL	10									

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N72

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: MB-246266	Client ID:	Units: ug/Kg	Prep Date: 07/31/2017	Run No: 348635
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661083

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acetone	BRL	100									
Acrolein	BRL	50									
Acrylonitrile	BRL	50									
Benzene	BRL	5.0									
Bromobenzene	BRL	5.0									
Bromochloromethane	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Hexachlorobutadiene	BRL	5.0									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methylene chloride	BRL	20									
n-Butylbenzene	BRL	5.0									
n-Propylbenzene	BRL	5.0									

<b>Qualifiers:</b>	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	Page 20 of 28



Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N72

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: MB-246266	Client ID:	Units: ug/Kg	Prep Date: 07/31/2017	Run No: 348635							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661083							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
sec-Butylbenzene	BRL	5.0									
Styrene	BRL	5.0									
tert-Butylbenzene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	45.37	0	50.00		90.7	70	130				
Surr: Dibromofluoromethane	47.50	0	50.00		95.0	70	130				
Surr: Toluene-d8	48.19	0	50.00		96.4	70	130				

Sample ID: LCS-246266	Client ID:	Units: ug/Kg	Prep Date: 07/31/2017	Run No: 348635							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661077							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1,2-Tetrachloroethane	47.52	5.0	50.00		95.0	70	130				
1,1,1-Trichloroethane	47.01	5.0	50.00		94.0	70	130				
1,1,2,2-Tetrachloroethane	42.18	5.0	50.00		84.4	70	130				
1,1,2-Trichloroethane	44.26	5.0	50.00		88.5	70	130				
1,1-Dichloroethane	45.47	5.0	50.00		90.9	70	130				
1,1-Dichloroethene	41.88	5.0	50.00		83.8	60	140				
1,1-Dichloropropene	45.16	5.0	50.00		90.3	70	130				

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N72

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: LCS-246266 Client ID: Units: ug/Kg Prep Date: 07/31/2017 Run No: 348635  
 SampleType: LCS TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 246266 Analysis Date: 07/31/2017 Seq No: 7661077

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2,3-Trichlorobenzene	48.55	5.0	50.00		97.1	70	130				
1,2,3-Trichloropropane	47.17	5.0	50.00		94.3	70	130				
1,2,4-Trichlorobenzene	47.94	5.0	50.00		95.9	70	130				
1,2,4-Trimethylbenzene	46.52	5.0	50.00		93.0	70	130				
1,2-Dibromo-3-chloropropane	50.21	5.0	50.00		100	70	130				
1,2-Dibromoethane	44.61	5.0	50.00		89.2	70	130				
1,2-Dichlorobenzene	46.02	5.0	50.00		92.0	70	130				
1,2-Dichloroethane	44.75	5.0	50.00		89.5	70	130				
1,2-Dichloropropane	46.55	5.0	50.00		93.1	70	130				
1,3,5-Trimethylbenzene	45.88	5.0	50.00		91.8	70	130				
1,3-Dichlorobenzene	46.04	5.0	50.00		92.1	70	130				
1,3-Dichloropropane	46.29	5.0	50.00		92.6	70	130				
1,4-Dichlorobenzene	46.04	5.0	50.00		92.1	70	130				
2,2-Dichloropropane	51.36	5.0	50.00		103	70	130				
2-Chlorotoluene	46.21	5.0	50.00		92.4	70	130				
4-Chlorotoluene	46.44	5.0	50.00		92.9	70	130				
4-Isopropyltoluene	46.51	5.0	50.00		93.0	70	130				
Benzene	44.82	5.0	50.00		89.6	70	130				
Bromobenzene	44.34	5.0	50.00		88.7	70	130				
Bromochloromethane	45.81	5.0	50.00		91.6	70	130				
Bromodichloromethane	45.94	5.0	50.00		91.9	70	130				
Bromoform	47.82	5.0	50.00		95.6	70	130				
Carbon tetrachloride	49.13	5.0	50.00		98.3	70	130				
Chlorobenzene	46.82	5.0	50.00		93.6	70	130				
Chloroform	46.59	5.0	50.00		93.2	70	130				
cis-1,2-Dichloroethene	46.03	5.0	50.00		92.1	70	130				
cis-1,3-Dichloropropene	48.01	5.0	50.00		96.0	70	130				

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N72

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: LCS-246266	Client ID:	Units: ug/Kg	Prep Date: 07/31/2017	Run No: 348635
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661077

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Dibromochloromethane	46.41	5.0	50.00		92.8	70	130				
Dibromomethane	44.12	5.0	50.00		88.2	70	130				
Ethylbenzene	46.47	5.0	50.00		92.9	70	130				
Hexachlorobutadiene	49.12	5.0	50.00		98.2	70	130				
Isopropylbenzene	43.71	5.0	50.00		87.4	70	130				
m,p-Xylene	102.9	5.0	100.0		103	70	130				
Methylene chloride	57.36	20	50.00		115	70	130				
n-Butylbenzene	48.35	5.0	50.00		96.7	70	130				
n-Propylbenzene	48.44	5.0	50.00		96.9	70	130				
Naphthalene	46.05	5.0	50.00		92.1	70	130				
o-Xylene	47.16	5.0	50.00		94.3	70	130				
sec-Butylbenzene	47.32	5.0	50.00		94.6	70	130				
Styrene	49.19	5.0	50.00		98.4	70	130				
tert-Butylbenzene	45.99	5.0	50.00		92.0	70	130				
Tetrachloroethene	48.18	5.0	50.00		96.4	70	130				
Toluene	45.17	5.0	50.00		90.3	70	130				
trans-1,2-Dichloroethene	41.06	5.0	50.00		82.1	70	130				
trans-1,3-Dichloropropene	49.96	5.0	50.00		99.9	70	130				
Trichloroethene	47.10	5.0	50.00		94.2	70	130				
Vinyl chloride	46.69	10	50.00		93.4	70	130				
Surr: 4-Bromofluorobenzene	53.77	0	50.00		108	70	130				
Surr: Dibromofluoromethane	49.70	0	50.00		99.4	70	130				
Surr: Toluene-d8	48.57	0	50.00		97.1	70	130				

Sample ID: 1707N71-003AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 07/31/2017	Run No: 348635
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661084

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N72

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: 1707N71-003AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 07/31/2017	Run No: 348635							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661084							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	59.15	6.0	59.60		99.2	73.5	131				
1,1,1-Trichloroethane	57.95	6.0	59.60		97.2	71.4	136				
1,1,2,2-Tetrachloroethane	55.36	6.0	59.60		92.9	68.7	124				
1,1,2-Trichloroethane	58.92	6.0	59.60		98.9	75.2	125				
1,1-Dichloroethane	57.07	6.0	59.60		95.8	68.6	130				
1,1-Dichloroethene	51.36	6.0	59.60		86.2	55	143				
1,1-Dichloropropene	55.13	6.0	59.60		92.5	75.3	127				
1,2,3-Trichlorobenzene	63.08	6.0	59.60		106	65.7	130				
1,2,3-Trichloropropane	61.59	6.0	59.60		103	58.2	120				
1,2,4-Trichlorobenzene	61.29	6.0	59.60		103	64	129				
1,2,4-Trimethylbenzene	57.74	6.0	59.60		96.9	68.5	130				
1,2-Dibromo-3-chloropropane	63.45	6.0	59.60		106	57.2	129				
1,2-Dibromoethane	57.61	6.0	59.60		96.7	77.2	120				
1,2-Dichlorobenzene	58.84	6.0	59.60		98.7	74.6	121				
1,2-Dichloroethane	58.53	6.0	59.60		98.2	68.1	127				
1,2-Dichloropropane	60.12	6.0	59.60		101	74.4	122				
1,3,5-Trimethylbenzene	56.94	6.0	59.60		95.5	70.6	126				
1,3-Dichlorobenzene	57.73	6.0	59.60		96.9	71.9	122				
1,3-Dichloropropane	60.45	6.0	59.60		101	74.8	125				
1,4-Dichlorobenzene	57.91	6.0	59.60		97.2	70.7	123				
2,2-Dichloropropane	63.53	6.0	59.60		107	69.9	135				
2-Chlorotoluene	56.86	6.0	59.60		95.4	70.2	128				
4-Chlorotoluene	56.95	6.0	59.60		95.6	68.5	125				
4-Isopropyltoluene	57.80	6.0	59.60		97.0	70.2	131				
Benzene	55.96	6.0	59.60		93.9	68.5	128				
Bromobenzene	56.24	6.0	59.60		94.4	71.3	119				
Bromochloromethane	59.87	6.0	59.60		100	73	135				

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N72

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: 1707N71-003AMS Client ID: Units: ug/Kg-dry Prep Date: 07/31/2017 Run No: 348635  
 SampleType: MS TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 246266 Analysis Date: 07/31/2017 Seq No: 7661084

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Bromodichloromethane	59.18	6.0	59.60		99.3	68	126				
Bromoform	61.24	6.0	59.60		103	63.5	125				
Carbon tetrachloride	58.88	6.0	59.60		98.8	67.7	138				
Chlorobenzene	57.35	6.0	59.60		96.2	67.7	126				
Chloroform	58.36	6.0	59.60		97.9	70.3	129				
cis-1,2-Dichloroethene	58.25	6.0	59.60		97.7	69.7	136				
cis-1,3-Dichloropropene	63.56	6.0	59.60		107	69.9	130				
Dibromochloromethane	59.78	6.0	59.60		100	70.3	129				
Dibromomethane	58.65	6.0	59.60		98.4	76.4	119				
Ethylbenzene	56.42	6.0	59.60		94.7	65.5	136				
Hexachlorobutadiene	62.53	6.0	59.60		105	62.7	137				
Isopropylbenzene	53.53	6.0	59.60		89.8	60.4	126				
m,p-Xylene	125.1	6.0	119.2	1.377	104	62.5	136				
Methylene chloride	64.55	24	59.60	7.838	95.1	63.4	130				
n-Butylbenzene	59.75	6.0	59.60		100	70.5	132				
n-Propylbenzene	58.74	6.0	59.60		98.6	69.6	123				
Naphthalene	59.97	6.0	59.60		101	61.4	136				
o-Xylene	58.46	6.0	59.60		98.1	68	129				
sec-Butylbenzene	58.37	6.0	59.60		97.9	72.2	127				
Styrene	61.26	6.0	59.60		103	72.6	127				
tert-Butylbenzene	57.39	6.0	59.60		96.3	71.5	131				
Tetrachloroethene	58.23	6.0	59.60		97.7	69.1	134				
Toluene	56.26	6.0	59.60	1.177	92.4	66.9	128				
trans-1,2-Dichloroethene	45.67	6.0	59.60		76.6	69.9	128				
trans-1,3-Dichloropropene	66.13	6.0	59.60		111	62	129				
Trichloroethene	59.24	6.0	59.60		99.4	60.7	133				
Vinyl chloride	60.11	12	59.60		101	59.4	129				

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N72

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: 1707N71-003AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 07/31/2017	Run No: 348635
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661084

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	63.57	0	59.60		107	70	130				
Surr: Dibromofluoromethane	58.66	0	59.60		98.4	70	130				
Surr: Toluene-d8	58.15	0	59.60		97.6	70	130				

Sample ID: 1707N71-003AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 07/31/2017	Run No: 348635
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661085

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	55.74	6.0	59.60		93.5	73.5	131	59.15	5.93	20	
1,1,1-Trichloroethane	53.51	6.0	59.60		89.8	71.4	136	57.95	7.98	20	
1,1,2,2-Tetrachloroethane	54.70	6.0	59.60		91.8	68.7	124	55.36	1.19	20	
1,1,2-Trichloroethane	56.82	6.0	59.60		95.3	75.2	125	58.92	3.63	20	
1,1-Dichloroethane	52.28	6.0	59.60		87.7	68.6	130	57.07	8.76	20	
1,1-Dichloroethene	47.61	6.0	59.60		79.9	55	143	51.36	7.59	19.3	
1,1-Dichloropropene	50.59	6.0	59.60		84.9	75.3	127	55.13	8.59	20	
1,2,3-Trichlorobenzene	58.26	6.0	59.60		97.8	65.7	130	63.08	7.94	20	
1,2,3-Trichloropropane	60.36	6.0	59.60		101	58.2	120	61.59	2.01	20	
1,2,4-Trichlorobenzene	54.76	6.0	59.60		91.9	64	129	61.29	11.3	20	
1,2,4-Trimethylbenzene	52.84	6.0	59.60		88.7	68.5	130	57.74	8.86	20	
1,2-Dibromo-3-chloropropane	60.85	6.0	59.60		102	57.2	129	63.45	4.18	20	
1,2-Dibromoethane	56.56	6.0	59.60		94.9	77.2	120	57.61	1.84	20	
1,2-Dichlorobenzene	54.96	6.0	59.60		92.2	74.6	121	58.84	6.81	20	
1,2-Dichloroethane	54.72	6.0	59.60		91.8	68.1	127	58.53	6.72	20	
1,2-Dichloropropane	56.52	6.0	59.60		94.8	74.4	122	60.12	6.17	20	
1,3,5-Trimethylbenzene	51.85	6.0	59.60		87.0	70.6	126	56.94	9.36	20	
1,3-Dichlorobenzene	52.77	6.0	59.60		88.5	71.9	122	57.73	8.98	20	
1,3-Dichloropropane	59.53	6.0	59.60		99.9	74.8	125	60.45	1.53	20	
1,4-Dichlorobenzene	53.52	6.0	59.60		89.8	70.7	123	57.91	7.87	20	

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N72

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: 1707N71-003AMSD Client ID: Units: ug/Kg-dry Prep Date: 07/31/2017 Run No: 348635  
 SampleType: MSD TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 246266 Analysis Date: 07/31/2017 Seq No: 7661085

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,2-Dichloropropane	53.47	6.0	59.60		89.7	69.9	135	63.53	17.2	19.2	
2-Chlorotoluene	53.40	6.0	59.60		89.6	70.2	128	56.86	6.27	20	
4-Chlorotoluene	52.51	6.0	59.60		88.1	68.5	125	56.95	8.12	20	
4-Isopropyltoluene	51.26	6.0	59.60		86.0	70.2	131	57.80	12.0	20	
Benzene	52.42	6.0	59.60		88.0	68.5	128	55.96	6.53	20	
Bromobenzene	53.68	6.0	59.60		90.1	71.3	119	56.24	4.66	20	
Bromochloromethane	57.01	6.0	59.60		95.7	73	135	59.87	4.89	20	
Bromodichloromethane	55.32	6.0	59.60		92.8	68	126	59.18	6.75	20	
Bromoform	57.13	6.0	59.60		95.9	63.5	125	61.24	6.95	20	
Carbon tetrachloride	54.33	6.0	59.60		91.2	67.7	138	58.88	8.04	20	
Chlorobenzene	53.70	6.0	59.60		90.1	67.7	126	57.35	6.57	20	
Chloroform	54.12	6.0	59.60		90.8	70.3	129	58.36	7.55	20	
cis-1,2-Dichloroethene	53.81	6.0	59.60		90.3	69.7	136	58.25	7.94	20	
cis-1,3-Dichloropropene	58.32	6.0	59.60		97.9	69.9	130	63.56	8.59	20	
Dibromochloromethane	57.37	6.0	59.60		96.3	70.3	129	59.78	4.11	20	
Dibromomethane	54.34	6.0	59.60		91.2	76.4	119	58.65	7.62	20	
Ethylbenzene	52.87	6.0	59.60		88.7	65.5	136	56.42	6.50	20	
Hexachlorobutadiene	55.81	6.0	59.60		93.6	62.7	137	62.53	11.4	20.1	
Isopropylbenzene	50.49	6.0	59.60		84.7	60.4	126	53.53	5.84	20	
m,p-Xylene	115.0	6.0	119.2	1.377	95.4	62.5	136	125.1	8.38	20	
Methylene chloride	62.97	24	59.60	7.838	92.5	63.4	130	64.55	2.47	20	
n-Butylbenzene	52.73	6.0	59.60		88.5	70.5	132	59.75	12.5	20	
n-Propylbenzene	53.81	6.0	59.60		90.3	69.6	123	58.74	8.77	20	
Naphthalene	58.42	6.0	59.60		98.0	61.4	136	59.97	2.62	20	
o-Xylene	53.47	6.0	59.60		89.7	68	129	58.46	8.90	20	
sec-Butylbenzene	52.98	6.0	59.60		88.9	72.2	127	58.37	9.68	20	
Styrene	55.59	6.0	59.60		93.3	72.6	127	61.26	9.69	20	

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707N72

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: 1707N71-003AMSD Client ID: Units: ug/Kg-dry Prep Date: 07/31/2017 Run No: 348635  
 SampleType: MSD TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 246266 Analysis Date: 07/31/2017 Seq No: 7661085

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
tert-Butylbenzene	52.70	6.0	59.60		88.4	71.5	131	57.39	8.53	20	
Tetrachloroethene	54.49	6.0	59.60		91.4	69.1	134	58.23	6.64	20	
Toluene	52.41	6.0	59.60	1.177	86.0	66.9	128	56.26	7.09	20	
trans-1,2-Dichloroethene	42.71	6.0	59.60		71.7	69.9	128	45.67	6.69	21.6	
trans-1,3-Dichloropropene	61.46	6.0	59.60		103	62	129	66.13	7.32	20	
Trichloroethene	53.08	6.0	59.60		89.1	60.7	133	59.24	11.0	20	
Vinyl chloride	52.36	12	59.60		87.9	59.4	129	60.11	13.8	20.3	
Surr: 4-Bromofluorobenzene	61.14	0	59.60		103	70	130	63.57	0	0	
Surr: Dibromofluoromethane	57.24	0	59.60		96.0	70	130	58.66	0	0	
Surr: Toluene-d8	58.34	0	59.60		97.9	70	130	58.15	0	0	

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





ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 04, 2017

Leona Miles  
Atlanta Environmental Mgmt  
2580 NE Expressway  
Atlanta GA 30345

RE: Honea Path

Dear Leona Miles:

Order No: 1707094

Analytical Environmental Services, Inc. received 8 samples on 7/28/2017 1:17:00 PM  
for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated  
Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the  
analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES'  
certifications are as follows:

-South Carolina Certification number 98016003 for Clean Water Act and for Solid and Hazardous Waste,  
effective until 6/30/18.

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

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

Sincerely,

Ioana Pacurar  
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC.  
 3080 Presidential Drive Atlanta, GA 30340-3704  
 Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

**CHAIN OF CUSTODY**

Work Order: 1707094

Date: 7/28/17 Page 1 of 2

COMPANY: ATLANTA ENVIRONMENTAL MANAGEMENT, INC. (AEM)			ADDRESS: 2540 NE Expressway Atlanta, GA 30345			ANALYSIS REQUESTED					Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> for downloadable COCs and to log in to your AESAccess account.		Number of Containers		
PHONE: 404-329-9086			EMAIL: leona.miles@aem-net.com			VOC's (B26018)					REMARKS				
SAMPLED BY: Tony J Gordon			SIGNATURE: Tony L Gordon												
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)					REMARKS			
		DATE	TIME				1	2	3	4	5		6		
1	B-12 (1')	7/27/17	1605	X		SO								HOLD	4
2	B-12 (5')	7/27/17	1610	X		SO	X								4
3	B-12 DUP (5')	7/27/17	1610	X		SO	X								4
4	B-12 (10')	7/27/17	1615	X		SO	X								4
5	B-12 (15')	7/27/17	1620	X		SO	X							HOLD	4
6	B-12 (20')	7/27/17	1625	X		SO	X							HOLD	4
7	B-12 (25')	7/27/17	1630	X		SO	X							HOLD	4
8	B-8 (1')	7/27/17	1730	X		SO								HOLD	4
9	B-8 (5')	7/27/17	1735	X		SO	X								4
10	B-8 (10')	7/27/17	1740	X		SO	X								4
11	B-8 (15')	7/27/17	1745	X		SO								HOLD	4
12	B-8 (20')	7/27/17	1750	X		SO								HOLD	4
13	B-8 (25')	7/27/17	1755	X		SO								HOLD	4
14															
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION					RECEIPT		
1. Tony J Gordon		7/28/17 (1317)		1. Bruce B...		7/28/17 1317		PROJECT NAME: HONGA PATH					Total # of Containers: 52		
2.				2.				PROJECT #: 1320-1701					Turnaround Time (TAT) Request		
3.				3.				SITE ADDRESS: 415 Brick Mill Rd Honga Path, SC 29654					<input checked="" type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other		
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				INVOICE TO:				STATE PROGRAM (if any):			
Hold sample designated "HOLD" pending initial lab results				OUT: / / VIA: / /				leona.miles@aem-net.com				E-mail? <input checked="" type="checkbox"/> Fax? <input type="checkbox"/>			
				client FedEx UPS US mail courier Greyhound				(IF DIFFERENT FROM ABOVE)				DATA PACKAGE: I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>			
				other: _____				QUOTE #: _____ PO#: _____							
Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.															

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)  
 Preservative Codes: H+I = Hydrochloric acid + Ice I = Ice only N = Nitric acid S+H = Sulfuric acid + Ice S/M+I = Sodium Bisulfate/Methanol + Ice O = Other (specify) NA = None



ANALYTICAL ENVIRONMENTAL SERVICES, INC.  
 3080 Presidential Drive Atlanta, GA 30340-3704  
 Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

**CHAIN OF CUSTODY**

Work Order: 1707094

Date: \_\_\_\_\_ Page 2 of 2

COMPANY: <b>ATLANTA ENVIRONMENTAL MANAGEMENT, JK. (AEM)</b>		ADDRESS: <b>2580 NE EXPRESSWAY Atlanta, GA, 30345</b>		ANALYSIS REQUESTED										Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> for downloadable COCs and to log in to your AES Access account.		Number of Containers																			
PHONE: <b>404-329-9016</b>		EMAIL: <b>leona-miles@aem-net.com</b>		<table border="1"> <tr> <td>Voc's (8260B)</td> <td>TCLP Voc's</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>													Voc's (8260B)	TCLP Voc's																	
Voc's (8260B)	TCLP Voc's																																		
SAMPLED BY: <b>Tony L Gordon</b>		SIGNATURE: <i>(Tony L Gordon)</i>		PRESERVATION (see codes)										REMARKS																					
#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)	S/A	I																											
1	B-13 (1')	7/27/17	1805	X		SO																	HOLD	4											
2	B-13 (5')	7/27/17	1810	X		SO																		HOLD	4										
3	B-13 (10')	7/27/17	1815	X		SO																		HOLD	4										
4	B-13 (15')	7/27/17	1820	X		SO																		HOLD	4										
5	B-13 (20')	7/27/17	1825	X		SO																		HOLD	4										
6	B-13 (25')	7/27/17	1830	X		SO																		HOLD	4										
7																																			
8	Drum #1 (2016)	7/28/17	0930	X		SO		X																		4									
9	Drum #2 (2017)	7/28/17	0920	X		SO		X																		4									
10																																			
11	Trip Blank	—	—				X																			2									
12																																			
13																																			
14																																			
RELINQUISHED BY: <i>(Tony L Gordon)</i>		DATE/TIME: <b>7/28/17 (1317)</b>		RECEIVED BY: <i>(Bryan B...)</i>		DATE/TIME: <b>7/28/17 1317</b>		PROJECT INFORMATION										RECEIPT																	
1.		2.		3.		PROJECT NAME: <b>HONOR PATH</b>										Total # of Containers: <b>20</b>																			
2.		3.		PROJECT #: <b>1320-1701</b>										Turnaround Time (TAT) Request																					
3.		SITE ADDRESS: <b>415 Birch Mill Rd Honza Path, SC 29543</b>										<input checked="" type="checkbox"/> Standard 5 Business Days																							
SPECIAL INSTRUCTIONS/COMMENTS:		SEND REPORT TO: <b>Leona Miles</b>										<input type="checkbox"/> 2 Business Day Rush																							
SHIPMENT METHOD		INVOICE TO: <b>Leona-miles@aem-net</b>										<input type="checkbox"/> Next Business Day Rush																							
OUT: / / VIA:		(IF DIFFERENT FROM ABOVE)										<input type="checkbox"/> Same-Day Rush (auth req.)																							
IN: / / VIA:		QUOTE #: _____ PO#: _____										<input type="checkbox"/> Other _____																							
client FedEx UPS US mail courier Greyhound		STATE PROGRAM (if any): _____										E-mail? <input checked="" type="checkbox"/> Fax? <input type="checkbox"/>																							
other: _____		DATA PACKAGE: I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>																																	
Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.														Page 3 of 37																					

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)  
 Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None  
 White Copy - Original; Yellow Copy - Client

**Analytical Environmental Services, Inc**

Date: 4-Aug-17

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-12 (5')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 4:10:00 PM
<b>Lab ID:</b> 1707O94-002	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Dichlorodifluoromethane	BRL	12		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Chloromethane	BRL	12		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Vinyl chloride	BRL	12		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Bromomethane	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Chloroethane	BRL	12		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Trichlorofluoromethane	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Acrolein	BRL	60		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
1,1-Dichloroethene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Acetone	BRL	120		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Carbon disulfide	BRL	12		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Vinyl acetate	BRL	12		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Methylene chloride	BRL	24		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Acrylonitrile	BRL	60		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
trans-1,2-Dichloroethene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
1,1-Dichloroethane	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
2,2-Dichloropropane	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
cis-1,2-Dichloroethene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
2-Butanone	BRL	60		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Bromochloromethane	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Chloroform	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
1,1,1-Trichloroethane	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
1,1-Dichloropropene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Carbon tetrachloride	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Benzene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
1,2-Dichloroethane	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Trichloroethene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
1,2-Dichloropropane	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Dibromomethane	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Bromodichloromethane	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
cis-1,3-Dichloropropene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
4-Methyl-2-pentanone	BRL	12		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Toluene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
trans-1,3-Dichloropropene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
1,1,2-Trichloroethane	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
2-Hexanone	BRL	12		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Tetrachloroethene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
1,3-Dichloropropane	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Dibromochloromethane	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
1,2-Dibromoethane	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Chlorobenzene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
1,1,1,2-Tetrachloroethane	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ

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

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-12 (5')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 4:10:00 PM
<b>Lab ID:</b> 1707O94-002	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Ethylbenzene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
m,p-Xylene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
o-Xylene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Styrene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Bromoform	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Bromobenzene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
1,1,2,2-Tetrachloroethane	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
1,2,3-Trichloropropane	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Isopropylbenzene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Naphthalene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
2-Chlorotoluene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
4-Chlorotoluene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
1,3,5-Trimethylbenzene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
tert-Butylbenzene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
1,2,4-Trimethylbenzene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
sec-Butylbenzene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
1,3-Dichlorobenzene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
4-Isopropyltoluene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
1,4-Dichlorobenzene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
1,2-Dichlorobenzene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
n-Propylbenzene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
1,2-Dibromo-3-chloropropane	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
1,2,4-Trichlorobenzene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Hexachlorobutadiene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
n-Butylbenzene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
1,2,3-Trichlorobenzene	BRL	6.0		ug/Kg-dry	246266	1	08/01/2017 13:43	CJ
Surr: 4-Bromofluorobenzene	90.7	70-130		%REC	246266	1	08/01/2017 13:43	CJ
Surr: Dibromofluoromethane	91.6	70-130		%REC	246266	1	08/01/2017 13:43	CJ
Surr: Toluene-d8	97	70-130		%REC	246266	1	08/01/2017 13:43	CJ

**PERCENT MOISTURE D2216**

Percent Moisture	20.6	0		wt%	R348804	1	08/01/2017 13:00	VH
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<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Aug-17

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-12 DUP (5')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 4:10:00 PM
<b>Lab ID:</b> 1707O94-003	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Dichlorodifluoromethane	BRL	11		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Chloromethane	BRL	11		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Vinyl chloride	BRL	11		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Bromomethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Chloroethane	BRL	11		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Trichlorofluoromethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Acrolein	BRL	53		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
1,1-Dichloroethene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Acetone	BRL	110		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Carbon disulfide	BRL	11		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Vinyl acetate	BRL	11		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Methylene chloride	BRL	21		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Acrylonitrile	BRL	53		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
trans-1,2-Dichloroethene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
1,1-Dichloroethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
2,2-Dichloropropane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
cis-1,2-Dichloroethene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
2-Butanone	BRL	53		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Bromochloromethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Chloroform	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
1,1,1-Trichloroethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
1,1-Dichloropropene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Carbon tetrachloride	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Benzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
1,2-Dichloroethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Trichloroethene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
1,2-Dichloropropane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Dibromomethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Bromodichloromethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
cis-1,3-Dichloropropene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
4-Methyl-2-pentanone	BRL	11		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Toluene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
trans-1,3-Dichloropropene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
1,1,2-Trichloroethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
2-Hexanone	BRL	11		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Tetrachloroethene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
1,3-Dichloropropane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Dibromochloromethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
1,2-Dibromoethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Chlorobenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
1,1,1,2-Tetrachloroethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ

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

**Analytical Environmental Services, Inc**

**Date:** 4-Aug-17

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-12 DUP (5')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 4:10:00 PM
<b>Lab ID:</b> 1707O94-003	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Ethylbenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
m,p-Xylene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
o-Xylene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Styrene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Bromoform	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Bromobenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
1,1,2,2-Tetrachloroethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
1,2,3-Trichloropropane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Isopropylbenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Naphthalene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
2-Chlorotoluene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
4-Chlorotoluene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
1,3,5-Trimethylbenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
tert-Butylbenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
1,2,4-Trimethylbenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
sec-Butylbenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
1,3-Dichlorobenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
4-Isopropyltoluene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
1,4-Dichlorobenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
1,2-Dichlorobenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
n-Propylbenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
1,2-Dibromo-3-chloropropane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
1,2,4-Trichlorobenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Hexachlorobutadiene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
n-Butylbenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
1,2,3-Trichlorobenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 12:55	CJ
Surr: 4-Bromofluorobenzene	85.9	70-130		%REC	246266	1	08/01/2017 12:55	CJ
Surr: Dibromofluoromethane	89.7	70-130		%REC	246266	1	08/01/2017 12:55	CJ
Surr: Toluene-d8	97	70-130		%REC	246266	1	08/01/2017 12:55	CJ

**PERCENT MOISTURE D2216**

Percent Moisture	16.4	0		wt%	R348804	1	08/01/2017 13:00	VH
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<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Aug-17

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-12 (10')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 4:15:00 PM
<b>Lab ID:</b> 1707O94-004	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Dichlorodifluoromethane	BRL	11		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Chloromethane	BRL	11		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Vinyl chloride	BRL	11		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Bromomethane	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Chloroethane	BRL	11		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Trichlorofluoromethane	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Acrolein	BRL	57		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
1,1-Dichloroethene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Acetone	BRL	110		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Carbon disulfide	BRL	11		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Vinyl acetate	BRL	11		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Methylene chloride	BRL	23		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Acrylonitrile	BRL	57		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
trans-1,2-Dichloroethene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
1,1-Dichloroethane	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
2,2-Dichloropropane	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
cis-1,2-Dichloroethene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
2-Butanone	BRL	57		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Bromochloromethane	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Chloroform	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
1,1,1-Trichloroethane	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
1,1-Dichloropropene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Carbon tetrachloride	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Benzene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
1,2-Dichloroethane	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Trichloroethene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
1,2-Dichloropropane	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Dibromomethane	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Bromodichloromethane	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
cis-1,3-Dichloropropene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
4-Methyl-2-pentanone	BRL	11		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Toluene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
trans-1,3-Dichloropropene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
1,1,2-Trichloroethane	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
2-Hexanone	BRL	11		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Tetrachloroethene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
1,3-Dichloropropane	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Dibromochloromethane	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
1,2-Dibromoethane	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Chlorobenzene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
1,1,1,2-Tetrachloroethane	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ

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



<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-12 (10')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 4:15:00 PM
<b>Lab ID:</b> 1707O94-004	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Ethylbenzene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
m,p-Xylene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
o-Xylene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Styrene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Bromoform	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Bromobenzene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
1,1,2,2-Tetrachloroethane	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
1,2,3-Trichloropropane	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Isopropylbenzene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Naphthalene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
2-Chlorotoluene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
4-Chlorotoluene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
1,3,5-Trimethylbenzene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
tert-Butylbenzene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
1,2,4-Trimethylbenzene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
sec-Butylbenzene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
1,3-Dichlorobenzene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
4-Isopropyltoluene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
1,4-Dichlorobenzene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
1,2-Dichlorobenzene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
n-Propylbenzene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
1,2-Dibromo-3-chloropropane	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
1,2,4-Trichlorobenzene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Hexachlorobutadiene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
n-Butylbenzene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
1,2,3-Trichlorobenzene	BRL	5.7		ug/Kg-dry	246266	1	08/01/2017 12:31	CJ
Surr: 4-Bromofluorobenzene	91.7	70-130		%REC	246266	1	08/01/2017 12:31	CJ
Surr: Dibromofluoromethane	94.6	70-130		%REC	246266	1	08/01/2017 12:31	CJ
Surr: Toluene-d8	97	70-130		%REC	246266	1	08/01/2017 12:31	CJ

**PERCENT MOISTURE D2216**

Percent Moisture	11.3	0		wt%	R348804	1	08/01/2017 13:00	VH
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<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Aug-17

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-8 (5')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 5:35:00 PM
<b>Lab ID:</b> 1707O94-009	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Dichlorodifluoromethane	BRL	11		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Chloromethane	BRL	11		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Vinyl chloride	BRL	11		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Bromomethane	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Chloroethane	BRL	11		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Trichlorofluoromethane	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Acrolein	BRL	55		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
1,1-Dichloroethene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Acetone	BRL	110		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Carbon disulfide	BRL	11		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Vinyl acetate	BRL	11		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Methylene chloride	BRL	22		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Acrylonitrile	BRL	55		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
trans-1,2-Dichloroethene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
1,1-Dichloroethane	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
2,2-Dichloropropane	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
cis-1,2-Dichloroethene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
2-Butanone	BRL	55		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Bromochloromethane	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Chloroform	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
1,1,1-Trichloroethane	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
1,1-Dichloropropene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Carbon tetrachloride	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Benzene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
1,2-Dichloroethane	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Trichloroethene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
1,2-Dichloropropane	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Dibromomethane	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Bromodichloromethane	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
cis-1,3-Dichloropropene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
4-Methyl-2-pentanone	BRL	11		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Toluene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
trans-1,3-Dichloropropene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
1,1,2-Trichloroethane	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
2-Hexanone	BRL	11		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Tetrachloroethene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
1,3-Dichloropropane	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Dibromochloromethane	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
1,2-Dibromoethane	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Chlorobenzene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
1,1,1,2-Tetrachloroethane	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ

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

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-8 (5')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 5:35:00 PM
<b>Lab ID:</b> 1707O94-009	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Ethylbenzene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
m,p-Xylene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
o-Xylene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Styrene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Bromoform	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Bromobenzene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
1,1,2,2-Tetrachloroethane	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
1,2,3-Trichloropropane	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Isopropylbenzene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Naphthalene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
2-Chlorotoluene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
4-Chlorotoluene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
1,3,5-Trimethylbenzene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
tert-Butylbenzene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
1,2,4-Trimethylbenzene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
sec-Butylbenzene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
1,3-Dichlorobenzene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
4-Isopropyltoluene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
1,4-Dichlorobenzene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
1,2-Dichlorobenzene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
n-Propylbenzene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
1,2-Dibromo-3-chloropropane	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
1,2,4-Trichlorobenzene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Hexachlorobutadiene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
n-Butylbenzene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
1,2,3-Trichlorobenzene	BRL	5.5		ug/Kg-dry	246266	1	08/01/2017 13:19	CJ
Surr: 4-Bromofluorobenzene	89.8	70-130		%REC	246266	1	08/01/2017 13:19	CJ
Surr: Dibromofluoromethane	94.4	70-130		%REC	246266	1	08/01/2017 13:19	CJ
Surr: Toluene-d8	96.2	70-130		%REC	246266	1	08/01/2017 13:19	CJ

**PERCENT MOISTURE D2216**

Percent Moisture	10.7	0		wt%	R348804	1	08/01/2017 13:00	VH
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<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Aug-17

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-8 (10')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 5:40:00 PM
<b>Lab ID:</b> 1707O94-010	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Dichlorodifluoromethane	BRL	11		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Chloromethane	BRL	11		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Vinyl chloride	BRL	11		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Bromomethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Chloroethane	BRL	11		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Trichlorofluoromethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Acrolein	BRL	53		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
1,1-Dichloroethene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Acetone	BRL	110		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Carbon disulfide	BRL	11		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Vinyl acetate	BRL	11		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Methylene chloride	BRL	21		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Acrylonitrile	BRL	53		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
trans-1,2-Dichloroethene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
1,1-Dichloroethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
2,2-Dichloropropane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
cis-1,2-Dichloroethene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
2-Butanone	BRL	53		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Bromochloromethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Chloroform	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
1,1,1-Trichloroethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
1,1-Dichloropropene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Carbon tetrachloride	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Benzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
1,2-Dichloroethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Trichloroethene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
1,2-Dichloropropane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Dibromomethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Bromodichloromethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
cis-1,3-Dichloropropene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
4-Methyl-2-pentanone	BRL	11		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Toluene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
trans-1,3-Dichloropropene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
1,1,2-Trichloroethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
2-Hexanone	BRL	11		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Tetrachloroethene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
1,3-Dichloropropane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Dibromochloromethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
1,2-Dibromoethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Chlorobenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
1,1,1,2-Tetrachloroethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-8 (10')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 5:40:00 PM
<b>Lab ID:</b> 1707O94-010	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Ethylbenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
m,p-Xylene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
o-Xylene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Styrene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Bromoform	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Bromobenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
1,1,2,2-Tetrachloroethane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
1,2,3-Trichloropropane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Isopropylbenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Naphthalene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
2-Chlorotoluene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
4-Chlorotoluene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
1,3,5-Trimethylbenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
tert-Butylbenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
1,2,4-Trimethylbenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
sec-Butylbenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
1,3-Dichlorobenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
4-Isopropyltoluene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
1,4-Dichlorobenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
1,2-Dichlorobenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
n-Propylbenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
1,2-Dibromo-3-chloropropane	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
1,2,4-Trichlorobenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Hexachlorobutadiene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
n-Butylbenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
1,2,3-Trichlorobenzene	BRL	5.3		ug/Kg-dry	246266	1	08/01/2017 14:07	CJ
Surr: 4-Bromofluorobenzene	89.2	70-130		%REC	246266	1	08/01/2017 14:07	CJ
Surr: Dibromofluoromethane	92.5	70-130		%REC	246266	1	08/01/2017 14:07	CJ
Surr: Toluene-d8	97	70-130		%REC	246266	1	08/01/2017 14:07	CJ

**PERCENT MOISTURE D2216**

Percent Moisture	9.53	0		wt%	R348804	1	08/01/2017 13:00	VH
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<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

Date: 4-Aug-17

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> DRUM #1 (2016)
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/28/2017 9:30:00 AM
<b>Lab ID:</b> 1707O94-020	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILES, TCLP SW1311/8260B</b>					<b>(SW5030B)</b>			
1,1-Dichloroethene	BRL	0.10		mg/L	246391	20	08/03/2017 13:47	MD
1,2-Dichloroethane	BRL	0.10		mg/L	246391	20	08/03/2017 13:47	MD
2-Butanone	BRL	0.20		mg/L	246391	20	08/03/2017 13:47	MD
Benzene	BRL	0.10		mg/L	246391	20	08/03/2017 13:47	MD
Carbon tetrachloride	BRL	0.10		mg/L	246391	20	08/03/2017 13:47	MD
Chlorobenzene	BRL	0.10		mg/L	246391	20	08/03/2017 13:47	MD
Chloroform	BRL	0.10		mg/L	246391	20	08/03/2017 13:47	MD
Tetrachloroethene	BRL	0.10		mg/L	246391	20	08/03/2017 13:47	MD
Trichloroethene	BRL	0.10		mg/L	246391	20	08/03/2017 13:47	MD
Vinyl chloride	BRL	0.040		mg/L	246391	20	08/03/2017 13:47	MD
Surr: 4-Bromofluorobenzene	97.4	68.3-122		%REC	246391	20	08/03/2017 13:47	MD
Surr: Dibromofluoromethane	101	70.1-125		%REC	246391	20	08/03/2017 13:47	MD
Surr: Toluene-d8	95.7	81.4-120		%REC	246391	20	08/03/2017 13:47	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Aug-17

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> DRUM #2 (2017)
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/28/2017 9:20:00 AM
<b>Lab ID:</b> 1707O94-021	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILES, TCLP SW1311/8260B</b>					<b>(SW5030B)</b>			
1,1-Dichloroethene	BRL	0.10		mg/L	246391	20	08/03/2017 14:11	MD
1,2-Dichloroethane	BRL	0.10		mg/L	246391	20	08/03/2017 14:11	MD
2-Butanone	BRL	0.20		mg/L	246391	20	08/03/2017 14:11	MD
Benzene	BRL	0.10		mg/L	246391	20	08/03/2017 14:11	MD
Carbon tetrachloride	BRL	0.10		mg/L	246391	20	08/03/2017 14:11	MD
Chlorobenzene	BRL	0.10		mg/L	246391	20	08/03/2017 14:11	MD
Chloroform	BRL	0.10		mg/L	246391	20	08/03/2017 14:11	MD
Tetrachloroethene	BRL	0.10		mg/L	246391	20	08/03/2017 14:11	MD
Trichloroethene	BRL	0.10		mg/L	246391	20	08/03/2017 14:11	MD
Vinyl chloride	BRL	0.040		mg/L	246391	20	08/03/2017 14:11	MD
Surr: 4-Bromofluorobenzene	95.2	68.3-122		%REC	246391	20	08/03/2017 14:11	MD
Surr: Dibromofluoromethane	99.6	70.1-125		%REC	246391	20	08/03/2017 14:11	MD
Surr: Toluene-d8	97.1	81.4-120		%REC	246391	20	08/03/2017 14:11	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/28/2017
<b>Lab ID:</b> 1707O94-022	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5030B)</b>								
1,1,1,2-Tetrachloroethane	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
1,1,1-Trichloroethane	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
1,1,2-Trichloroethane	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
1,1-Dichloroethane	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
1,1-Dichloroethene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
1,1-Dichloropropene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
1,2,3-Trichlorobenzene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
1,2,3-Trichloropropane	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
1,2,4-Trimethylbenzene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
1,2-Dibromoethane	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
1,2-Dichlorobenzene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
1,2-Dichloroethane	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
1,2-Dichloropropane	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
1,3,5-Trimethylbenzene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
1,3-Dichlorobenzene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
1,3-Dichloropropane	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
1,4-Dichlorobenzene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
2,2-Dichloropropane	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
2-Butanone	BRL	10		ug/L	246303	1	08/01/2017 18:33	NP
2-Chloroethyl vinyl ether	BRL	5.0		ug/L	246303	1	08/01/2017 18:33	NP
2-Chlorotoluene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
2-Hexanone	BRL	5.0		ug/L	246303	1	08/01/2017 18:33	NP
4-Chlorotoluene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
4-Isopropyltoluene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
4-Methyl-2-pentanone	BRL	5.0		ug/L	246303	1	08/01/2017 18:33	NP
Acetone	BRL	10		ug/L	246303	1	08/01/2017 18:33	NP
Acrolein	BRL	5.0		ug/L	246303	1	08/01/2017 18:33	NP
Acrylonitrile	BRL	5.0		ug/L	246303	1	08/01/2017 18:33	NP
Benzene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
Bromobenzene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
Bromochloromethane	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
Bromodichloromethane	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
Bromoform	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
Bromomethane	BRL	2.0		ug/L	246303	1	08/01/2017 18:33	NP
Carbon disulfide	BRL	5.0		ug/L	246303	1	08/01/2017 18:33	NP
Carbon tetrachloride	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
Chlorobenzene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
Chloroethane	BRL	2.0		ug/L	246303	1	08/01/2017 18:33	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/28/2017
<b>Lab ID:</b> 1707O94-022	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5030B)</b>								
Chloroform	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
Chloromethane	BRL	2.0		ug/L	246303	1	08/01/2017 18:33	NP
cis-1,2-Dichloroethene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
cis-1,3-Dichloropropene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
Dibromochloromethane	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
Dibromomethane	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
Dichlorodifluoromethane	BRL	2.0		ug/L	246303	1	08/01/2017 18:33	NP
Ethylbenzene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
Hexachlorobutadiene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
Isopropylbenzene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
m,p-Xylene	BRL	2.0		ug/L	246303	1	08/01/2017 18:33	NP
Methylene chloride	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
n-Butylbenzene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
n-Propylbenzene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
o-Xylene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
sec-Butylbenzene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
Styrene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
tert-Butylbenzene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
Tetrachloroethene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
Toluene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
trans-1,2-Dichloroethene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
Trichloroethene	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
Trichlorofluoromethane	BRL	1.0		ug/L	246303	1	08/01/2017 18:33	NP
Vinyl acetate	BRL	5.0		ug/L	246303	1	08/01/2017 18:33	NP
Vinyl chloride	BRL	2.0		ug/L	246303	1	08/01/2017 18:33	NP
Surr: 4-Bromofluorobenzene	82.1	66.1-129		%REC	246303	1	08/01/2017 18:33	NP
Surr: Dibromofluoromethane	109	70-130		%REC	246303	1	08/01/2017 18:33	NP
Surr: Dibromofluoromethane	109	83.6-123		%REC	246303	1	08/01/2017 18:33	NP
Surr: Toluene-d8	98.3	70-130		%REC	246303	1	08/01/2017 18:33	NP
Surr: Toluene-d8	98.3	81.8-118		%REC	246303	1	08/01/2017 18:33	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



SAMPLE/COOLER RECEIPT CHECKLIST

Clear Save as

1. Client Name: Atlanta Environmental Mgmt

AES Work Order Number: 1707N71

2. Carrier: FedEx UPS USPS Client Courier Other

Table with 5 columns: Question, Yes, No, N/A, Details, Comments. Rows 3-12 covering shipping container condition, seals, temperature blanks, COC, and TAT.

13. Cooler 1 Temperature 1.2 °C Cooler 2 Temperature °C Cooler 3 Temperature °C Cooler 4 Temperature °C
14. Cooler 5 Temperature °C Cooler 6 Temperature °C Cooler 7 Temperature °C Cooler 8 Temperature °C

15. Comments: I certify that I have completed sections 1-15 (dated initials). MJ 7/27/17

Table with 5 columns: Question, Yes, No, N/A, Details, Comments. Rows 16-26 covering sample container integrity, labels, COC, and trip blanks.

27. Comments: I certify that I have completed sections 16-27 (dated initials). AJ 7/28/17

This section only applies to samples where pH can be checked at Sample Receipt.

Table with 5 columns: Question, Yes, No, N/A, Details, Comments. Rows 28-30 covering pH and chemical preservation.

\* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). AJ 7/28/17 Page 18 of 37

Locked

Client: Atlanta Environmental Mgmt  
 Project Name: Honca Path  
 Workorder: 1707O94

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: MB-246266	Client ID:	Units: ug/Kg	Prep Date: 07/31/2017	Run No: 348635
Sample Type: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661083

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	BRL	5.0									
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,1-Dichloropropene	BRL	5.0									
1,2,3-Trichlorobenzene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2,4-Trimethylbenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3,5-Trimethylbenzene	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,3-Dichloropropane	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2,2-Dichloropropane	BRL	5.0									
2-Butanone	BRL	50									
2-Chlorotoluene	BRL	5.0									
2-Hexanone	BRL	10									
4-Chlorotoluene	BRL	5.0									
4-Isopropyltoluene	BRL	5.0									
4-Methyl-2-pentanone	BRL	10									

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707O94

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: MB-246266 Client ID: Units: ug/Kg Prep Date: 07/31/2017 Run No: 348635  
 SampleType: MBLK TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 246266 Analysis Date: 07/31/2017 Seq No: 7661083

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acetone	BRL	100									
Acrolein	BRL	50									
Acrylonitrile	BRL	50									
Benzene	BRL	5.0									
Bromobenzene	BRL	5.0									
Bromochloromethane	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Hexachlorobutadiene	BRL	5.0									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methylene chloride	BRL	20									
n-Butylbenzene	BRL	5.0									
n-Propylbenzene	BRL	5.0									

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707O94

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: MB-246266	Client ID:	Units: ug/Kg	Prep Date: 07/31/2017	Run No: 348635
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661083

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
sec-Butylbenzene	BRL	5.0									
Styrene	BRL	5.0									
tert-Butylbenzene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	45.37	0	50.00		90.7	70	130				
Surr: Dibromofluoromethane	47.50	0	50.00		95.0	70	130				
Surr: Toluene-d8	48.19	0	50.00		96.4	70	130				

Sample ID: LCS-246266	Client ID:	Units: ug/Kg	Prep Date: 07/31/2017	Run No: 348635
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661077

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	47.52	5.0	50.00		95.0	70	130				
1,1,1-Trichloroethane	47.01	5.0	50.00		94.0	70	130				
1,1,2,2-Tetrachloroethane	42.18	5.0	50.00		84.4	70	130				
1,1,2-Trichloroethane	44.26	5.0	50.00		88.5	70	130				
1,1-Dichloroethane	45.47	5.0	50.00		90.9	70	130				
1,1-Dichloroethene	41.88	5.0	50.00		83.8	60	140				
1,1-Dichloropropene	45.16	5.0	50.00		90.3	70	130				

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707O94

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: LCS-246266	Client ID:	Units: ug/Kg	Prep Date: 07/31/2017	Run No: 348635							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661077							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2,3-Trichlorobenzene	48.55	5.0	50.00		97.1	70	130				
1,2,3-Trichloropropane	47.17	5.0	50.00		94.3	70	130				
1,2,4-Trichlorobenzene	47.94	5.0	50.00		95.9	70	130				
1,2,4-Trimethylbenzene	46.52	5.0	50.00		93.0	70	130				
1,2-Dibromo-3-chloropropane	50.21	5.0	50.00		100	70	130				
1,2-Dibromoethane	44.61	5.0	50.00		89.2	70	130				
1,2-Dichlorobenzene	46.02	5.0	50.00		92.0	70	130				
1,2-Dichloroethane	44.75	5.0	50.00		89.5	70	130				
1,2-Dichloropropane	46.55	5.0	50.00		93.1	70	130				
1,3,5-Trimethylbenzene	45.88	5.0	50.00		91.8	70	130				
1,3-Dichlorobenzene	46.04	5.0	50.00		92.1	70	130				
1,3-Dichloropropane	46.29	5.0	50.00		92.6	70	130				
1,4-Dichlorobenzene	46.04	5.0	50.00		92.1	70	130				
2,2-Dichloropropane	51.36	5.0	50.00		103	70	130				
2-Chlorotoluene	46.21	5.0	50.00		92.4	70	130				
4-Chlorotoluene	46.44	5.0	50.00		92.9	70	130				
4-Isopropyltoluene	46.51	5.0	50.00		93.0	70	130				
Benzene	44.82	5.0	50.00		89.6	70	130				
Bromobenzene	44.34	5.0	50.00		88.7	70	130				
Bromochloromethane	45.81	5.0	50.00		91.6	70	130				
Bromodichloromethane	45.94	5.0	50.00		91.9	70	130				
Bromoform	47.82	5.0	50.00		95.6	70	130				
Carbon tetrachloride	49.13	5.0	50.00		98.3	70	130				
Chlorobenzene	46.82	5.0	50.00		93.6	70	130				
Chloroform	46.59	5.0	50.00		93.2	70	130				
cis-1,2-Dichloroethene	46.03	5.0	50.00		92.1	70	130				
cis-1,3-Dichloropropene	48.01	5.0	50.00		96.0	70	130				

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707O94

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: LCS-246266	Client ID:	Units: ug/Kg	Prep Date: 07/31/2017	Run No: 348635
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661077

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Dibromochloromethane	46.41	5.0	50.00		92.8	70	130				
Dibromomethane	44.12	5.0	50.00		88.2	70	130				
Ethylbenzene	46.47	5.0	50.00		92.9	70	130				
Hexachlorobutadiene	49.12	5.0	50.00		98.2	70	130				
Isopropylbenzene	43.71	5.0	50.00		87.4	70	130				
m,p-Xylene	102.9	5.0	100.0		103	70	130				
Methylene chloride	57.36	20	50.00		115	70	130				
n-Butylbenzene	48.35	5.0	50.00		96.7	70	130				
n-Propylbenzene	48.44	5.0	50.00		96.9	70	130				
Naphthalene	46.05	5.0	50.00		92.1	70	130				
o-Xylene	47.16	5.0	50.00		94.3	70	130				
sec-Butylbenzene	47.32	5.0	50.00		94.6	70	130				
Styrene	49.19	5.0	50.00		98.4	70	130				
tert-Butylbenzene	45.99	5.0	50.00		92.0	70	130				
Tetrachloroethene	48.18	5.0	50.00		96.4	70	130				
Toluene	45.17	5.0	50.00		90.3	70	130				
trans-1,2-Dichloroethene	41.06	5.0	50.00		82.1	70	130				
trans-1,3-Dichloropropene	49.96	5.0	50.00		99.9	70	130				
Trichloroethene	47.10	5.0	50.00		94.2	70	130				
Vinyl chloride	46.69	10	50.00		93.4	70	130				
Surr: 4-Bromofluorobenzene	53.77	0	50.00		108	70	130				
Surr: Dibromofluoromethane	49.70	0	50.00		99.4	70	130				
Surr: Toluene-d8	48.57	0	50.00		97.1	70	130				

Sample ID: 1707N71-003AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 07/31/2017	Run No: 348635
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661084

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
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**Qualifiers:**

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707O94

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: 1707N71-003AMS Client ID: Units: ug/Kg-dry Prep Date: 07/31/2017 Run No: 348635  
 SampleType: MS TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 246266 Analysis Date: 07/31/2017 Seq No: 7661084

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	59.15	6.0	59.60		99.2	73.5	131				
1,1,1-Trichloroethane	57.95	6.0	59.60		97.2	71.4	136				
1,1,2,2-Tetrachloroethane	55.36	6.0	59.60		92.9	68.7	124				
1,1,2-Trichloroethane	58.92	6.0	59.60		98.9	75.2	125				
1,1-Dichloroethane	57.07	6.0	59.60		95.8	68.6	130				
1,1-Dichloroethene	51.36	6.0	59.60		86.2	55	143				
1,1-Dichloropropene	55.13	6.0	59.60		92.5	75.3	127				
1,2,3-Trichlorobenzene	63.08	6.0	59.60		106	65.7	130				
1,2,3-Trichloropropane	61.59	6.0	59.60		103	58.2	120				
1,2,4-Trichlorobenzene	61.29	6.0	59.60		103	64	129				
1,2,4-Trimethylbenzene	57.74	6.0	59.60		96.9	68.5	130				
1,2-Dibromo-3-chloropropane	63.45	6.0	59.60		106	57.2	129				
1,2-Dibromoethane	57.61	6.0	59.60		96.7	77.2	120				
1,2-Dichlorobenzene	58.84	6.0	59.60		98.7	74.6	121				
1,2-Dichloroethane	58.53	6.0	59.60		98.2	68.1	127				
1,2-Dichloropropane	60.12	6.0	59.60		101	74.4	122				
1,3,5-Trimethylbenzene	56.94	6.0	59.60		95.5	70.6	126				
1,3-Dichlorobenzene	57.73	6.0	59.60		96.9	71.9	122				
1,3-Dichloropropane	60.45	6.0	59.60		101	74.8	125				
1,4-Dichlorobenzene	57.91	6.0	59.60		97.2	70.7	123				
2,2-Dichloropropane	63.53	6.0	59.60		107	69.9	135				
2-Chlorotoluene	56.86	6.0	59.60		95.4	70.2	128				
4-Chlorotoluene	56.95	6.0	59.60		95.6	68.5	125				
4-Isopropyltoluene	57.80	6.0	59.60		97.0	70.2	131				
Benzene	55.96	6.0	59.60		93.9	68.5	128				
Bromobenzene	56.24	6.0	59.60		94.4	71.3	119				
Bromochloromethane	59.87	6.0	59.60		100	73	135				

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



Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707094

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: 1707N71-003AMS Client ID: Units: ug/Kg-dry Prep Date: 07/31/2017 Run No: 348635  
 SampleType: MS TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 246266 Analysis Date: 07/31/2017 Seq No: 7661084

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Bromodichloromethane	59.18	6.0	59.60		99.3	68	126				
Bromoform	61.24	6.0	59.60		103	63.5	125				
Carbon tetrachloride	58.88	6.0	59.60		98.8	67.7	138				
Chlorobenzene	57.35	6.0	59.60		96.2	67.7	126				
Chloroform	58.36	6.0	59.60		97.9	70.3	129				
cis-1,2-Dichloroethene	58.25	6.0	59.60		97.7	69.7	136				
cis-1,3-Dichloropropene	63.56	6.0	59.60		107	69.9	130				
Dibromochloromethane	59.78	6.0	59.60		100	70.3	129				
Dibromomethane	58.65	6.0	59.60		98.4	76.4	119				
Ethylbenzene	56.42	6.0	59.60		94.7	65.5	136				
Hexachlorobutadiene	62.53	6.0	59.60		105	62.7	137				
Isopropylbenzene	53.53	6.0	59.60		89.8	60.4	126				
m,p-Xylene	125.1	6.0	119.2	1.377	104	62.5	136				
Methylene chloride	64.55	24	59.60	7.838	95.1	63.4	130				
n-Butylbenzene	59.75	6.0	59.60		100	70.5	132				
n-Propylbenzene	58.74	6.0	59.60		98.6	69.6	123				
Naphthalene	59.97	6.0	59.60		101	61.4	136				
o-Xylene	58.46	6.0	59.60		98.1	68	129				
sec-Butylbenzene	58.37	6.0	59.60		97.9	72.2	127				
Styrene	61.26	6.0	59.60		103	72.6	127				
tert-Butylbenzene	57.39	6.0	59.60		96.3	71.5	131				
Tetrachloroethene	58.23	6.0	59.60		97.7	69.1	134				
Toluene	56.26	6.0	59.60	1.177	92.4	66.9	128				
trans-1,2-Dichloroethene	45.67	6.0	59.60		76.6	69.9	128				
trans-1,3-Dichloropropene	66.13	6.0	59.60		111	62	129				
Trichloroethene	59.24	6.0	59.60		99.4	60.7	133				
Vinyl chloride	60.11	12	59.60		101	59.4	129				

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707O94

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: 1707N71-003AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 07/31/2017	Run No: 348635
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661084

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	63.57	0	59.60		107	70	130				
Surr: Dibromofluoromethane	58.66	0	59.60		98.4	70	130				
Surr: Toluene-d8	58.15	0	59.60		97.6	70	130				

Sample ID: 1707N71-003AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 07/31/2017	Run No: 348635
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246266	Analysis Date: 07/31/2017	Seq No: 7661085

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	55.74	6.0	59.60		93.5	73.5	131	59.15	5.93	20	
1,1,1-Trichloroethane	53.51	6.0	59.60		89.8	71.4	136	57.95	7.98	20	
1,1,2,2-Tetrachloroethane	54.70	6.0	59.60		91.8	68.7	124	55.36	1.19	20	
1,1,2-Trichloroethane	56.82	6.0	59.60		95.3	75.2	125	58.92	3.63	20	
1,1-Dichloroethane	52.28	6.0	59.60		87.7	68.6	130	57.07	8.76	20	
1,1-Dichloroethene	47.61	6.0	59.60		79.9	55	143	51.36	7.59	19.3	
1,1-Dichloropropene	50.59	6.0	59.60		84.9	75.3	127	55.13	8.59	20	
1,2,3-Trichlorobenzene	58.26	6.0	59.60		97.8	65.7	130	63.08	7.94	20	
1,2,3-Trichloropropane	60.36	6.0	59.60		101	58.2	120	61.59	2.01	20	
1,2,4-Trichlorobenzene	54.76	6.0	59.60		91.9	64	129	61.29	11.3	20	
1,2,4-Trimethylbenzene	52.84	6.0	59.60		88.7	68.5	130	57.74	8.86	20	
1,2-Dibromo-3-chloropropane	60.85	6.0	59.60		102	57.2	129	63.45	4.18	20	
1,2-Dibromoethane	56.56	6.0	59.60		94.9	77.2	120	57.61	1.84	20	
1,2-Dichlorobenzene	54.96	6.0	59.60		92.2	74.6	121	58.84	6.81	20	
1,2-Dichloroethane	54.72	6.0	59.60		91.8	68.1	127	58.53	6.72	20	
1,2-Dichloropropane	56.52	6.0	59.60		94.8	74.4	122	60.12	6.17	20	
1,3,5-Trimethylbenzene	51.85	6.0	59.60		87.0	70.6	126	56.94	9.36	20	
1,3-Dichlorobenzene	52.77	6.0	59.60		88.5	71.9	122	57.73	8.98	20	
1,3-Dichloropropane	59.53	6.0	59.60		99.9	74.8	125	60.45	1.53	20	
1,4-Dichlorobenzene	53.52	6.0	59.60		89.8	70.7	123	57.91	7.87	20	

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707O94

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: 1707N71-003AMSD Client ID: Units: ug/Kg-dry Prep Date: 07/31/2017 Run No: 348635  
 SampleType: MSD TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 246266 Analysis Date: 07/31/2017 Seq No: 7661085

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,2-Dichloropropane	53.47	6.0	59.60		89.7	69.9	135	63.53	17.2	19.2	
2-Chlorotoluene	53.40	6.0	59.60		89.6	70.2	128	56.86	6.27	20	
4-Chlorotoluene	52.51	6.0	59.60		88.1	68.5	125	56.95	8.12	20	
4-Isopropyltoluene	51.26	6.0	59.60		86.0	70.2	131	57.80	12.0	20	
Benzene	52.42	6.0	59.60		88.0	68.5	128	55.96	6.53	20	
Bromobenzene	53.68	6.0	59.60		90.1	71.3	119	56.24	4.66	20	
Bromochloromethane	57.01	6.0	59.60		95.7	73	135	59.87	4.89	20	
Bromodichloromethane	55.32	6.0	59.60		92.8	68	126	59.18	6.75	20	
Bromoform	57.13	6.0	59.60		95.9	63.5	125	61.24	6.95	20	
Carbon tetrachloride	54.33	6.0	59.60		91.2	67.7	138	58.88	8.04	20	
Chlorobenzene	53.70	6.0	59.60		90.1	67.7	126	57.35	6.57	20	
Chloroform	54.12	6.0	59.60		90.8	70.3	129	58.36	7.55	20	
cis-1,2-Dichloroethene	53.81	6.0	59.60		90.3	69.7	136	58.25	7.94	20	
cis-1,3-Dichloropropene	58.32	6.0	59.60		97.9	69.9	130	63.56	8.59	20	
Dibromochloromethane	57.37	6.0	59.60		96.3	70.3	129	59.78	4.11	20	
Dibromomethane	54.34	6.0	59.60		91.2	76.4	119	58.65	7.62	20	
Ethylbenzene	52.87	6.0	59.60		88.7	65.5	136	56.42	6.50	20	
Hexachlorobutadiene	55.81	6.0	59.60		93.6	62.7	137	62.53	11.4	20.1	
Isopropylbenzene	50.49	6.0	59.60		84.7	60.4	126	53.53	5.84	20	
m,p-Xylene	115.0	6.0	119.2	1.377	95.4	62.5	136	125.1	8.38	20	
Methylene chloride	62.97	24	59.60	7.838	92.5	63.4	130	64.55	2.47	20	
n-Butylbenzene	52.73	6.0	59.60		88.5	70.5	132	59.75	12.5	20	
n-Propylbenzene	53.81	6.0	59.60		90.3	69.6	123	58.74	8.77	20	
Naphthalene	58.42	6.0	59.60		98.0	61.4	136	59.97	2.62	20	
o-Xylene	53.47	6.0	59.60		89.7	68	129	58.46	8.90	20	
sec-Butylbenzene	52.98	6.0	59.60		88.9	72.2	127	58.37	9.68	20	
Styrene	55.59	6.0	59.60		93.3	72.6	127	61.26	9.69	20	

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707O94

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246266

Sample ID: 1707N71-003AMSD Client ID: Units: ug/Kg-dry Prep Date: 07/31/2017 Run No: 348635  
 SampleType: MSD TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 246266 Analysis Date: 07/31/2017 Seq No: 7661085

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
tert-Butylbenzene	52.70	6.0	59.60		88.4	71.5	131	57.39	8.53	20	
Tetrachloroethene	54.49	6.0	59.60		91.4	69.1	134	58.23	6.64	20	
Toluene	52.41	6.0	59.60	1.177	86.0	66.9	128	56.26	7.09	20	
trans-1,2-Dichloroethene	42.71	6.0	59.60		71.7	69.9	128	45.67	6.69	21.6	
trans-1,3-Dichloropropene	61.46	6.0	59.60		103	62	129	66.13	7.32	20	
Trichloroethene	53.08	6.0	59.60		89.1	60.7	133	59.24	11.0	20	
Vinyl chloride	52.36	12	59.60		87.9	59.4	129	60.11	13.8	20.3	
Surr: 4-Bromofluorobenzene	61.14	0	59.60		103	70	130	63.57	0	0	
Surr: Dibromofluoromethane	57.24	0	59.60		96.0	70	130	58.66	0	0	
Surr: Toluene-d8	58.34	0	59.60		97.9	70	130	58.15	0	0	

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707O94

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246303

Sample ID: MB-246303	Client ID:	Units: ug/L	Prep Date: 08/01/2017	Run No: 348776							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246303	Analysis Date: 08/01/2017	Seq No: 7662779							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Carbon disulfide	BRL	5.0									
Naphthalene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	2.0									
Surr: 4-Bromofluorobenzene	43.00	0	50.00		86.0	70	130				
Surr: Dibromofluoromethane	54.53	0	50.00		109	70	130				
Surr: Toluene-d8	48.38	0	50.00		96.8	70	130				

Sample ID: MB-246303	Client ID:	Units: ug/L	Prep Date: 08/01/2017	Run No: 348776							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246303	Analysis Date: 08/01/2017	Seq No: 7662782							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1,2-Tetrachloroethane	BRL	1.0									
1,1,1-Trichloroethane	BRL	1.0									
1,1,2,2-Tetrachloroethane	BRL	1.0									
1,1,2-Trichloroethane	BRL	1.0									
1,1-Dichloroethane	BRL	1.0									
1,1-Dichloroethene	BRL	2.0									
1,1-Dichloropropene	BRL	1.0									
1,2,3-Trichlorobenzene	BRL	1.0									
1,2,3-Trichloropropane	BRL	1.0									
1,2,4-Trichlorobenzene	BRL	1.0									
1,2,4-Trimethylbenzene	BRL	1.0									
1,2-Dibromo-3-chloropropane	BRL	1.0									
1,2-Dibromoethane	BRL	1.0									
1,2-Dichlorobenzene	BRL	1.0									
1,2-Dichloroethane	BRL	1.0									
1,2-Dichloropropane	BRL	1.0									
1,3,5-Trimethylbenzene	BRL	1.0									

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707O94

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246303

Sample ID: MB-246303 Client ID: Units: ug/L Prep Date: 08/01/2017 Run No: 348776  
 SampleType: MBLK TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 246303 Analysis Date: 08/01/2017 Seq No: 7662782

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,3-Dichlorobenzene	BRL	1.0									
1,3-Dichloropropane	BRL	1.0									
1,4-Dichlorobenzene	BRL	1.0									
2,2-Dichloropropane	BRL	2.0									
2-Butanone	BRL	10									
2-Chloroethyl vinyl ether	BRL	5.0									
2-Chlorotoluene	BRL	1.0									
2-Hexanone	BRL	10									
4-Chlorotoluene	BRL	1.0									
4-Isopropyltoluene	BRL	2.0									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	20									
Acrolein	BRL	20									
Acrylonitrile	BRL	5.0									
Benzene	BRL	1.0									
Bromobenzene	BRL	1.0									
Bromochloromethane	BRL	1.0									
Bromodichloromethane	BRL	1.0									
Bromoforn	BRL	1.0									
Bromomethane	BRL	1.0									
Carbon tetrachloride	BRL	2.0									
Chlorobenzene	BRL	1.0									
Chloroethane	BRL	1.0									
Chloroform	BRL	1.0									
Chloromethane	BRL	1.0									
cis-1,2-Dichloroethene	BRL	1.0									
cis-1,3-Dichloropropene	BRL	1.0									

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707O94

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246303

Sample ID: MB-246303 Client ID: Units: ug/L Prep Date: 08/01/2017 Run No: 348776  
 SampleType: MBLK TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 246303 Analysis Date: 08/01/2017 Seq No: 7662782

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Dibromochloromethane	BRL	1.0									
Dibromomethane	BRL	1.0									
Dichlorodifluoromethane	BRL	1.0									
Ethylbenzene	BRL	1.0									
Hexachlorobutadiene	BRL	1.0									
Isopropylbenzene	BRL	1.0									
m,p-Xylene	BRL	1.0									
Methylene chloride	BRL	5.0									
n-Butylbenzene	BRL	1.0									
n-Propylbenzene	BRL	1.0									
o-Xylene	BRL	1.0									
sec-Butylbenzene	BRL	2.0									
Styrene	BRL	1.0									
tert-Butylbenzene	BRL	1.0									
Tetrachloroethene	BRL	1.0									
Toluene	BRL	1.0									
trans-1,2-Dichloroethene	BRL	2.0									
Trichloroethene	BRL	1.0									
Trichlorofluoromethane	BRL	1.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	1.0									
Surr: 4-Bromofluorobenzene	43.00	0	50.00		86.0	66.1	129				
Surr: Dibromofluoromethane	54.53	0	50.00		109	83.6	123				
Surr: Toluene-d8	48.38	0	50.00		96.8	81.8	118				

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707O94

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246303

Sample ID: LCS-246303	Client ID:	Units: ug/L			Prep Date: 08/01/2017	Run No: 348776					
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS	SW8260B	BatchID: 246303		Analysis Date: 08/01/2017	Seq No: 7662780					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Naphthalene	19.69	5.0	20.00		98.4	70	130				
trans-1,3-Dichloropropene	21.57	2.0	20.00		108	70	130				
Surr: 4-Bromofluorobenzene	49.17	0	50.00		98.3	70	130				
Surr: Dibromofluoromethane	53.74	0	50.00		107	70	130				
Surr: Toluene-d8	50.49	0	50.00		101	70	130				

Sample ID: LCS-246303	Client ID:	Units: ug/L			Prep Date: 08/01/2017	Run No: 348776					
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS	SW8260B	BatchID: 246303		Analysis Date: 08/01/2017	Seq No: 7662783					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	21.13	2.0	20.00		106	68	139				
Benzene	20.39	1.0	20.00		102	74	125				
Chlorobenzene	23.10	1.0	20.00		116	75.7	123				
Toluene	21.44	1.0	20.00		107	75.9	126				
Trichloroethene	23.18	1.0	20.00		116	70.6	129				
Surr: 4-Bromofluorobenzene	49.17	0	50.00		98.3	66.1	129				
Surr: Dibromofluoromethane	53.74	0	50.00		107	83.6	123				
Surr: Toluene-d8	50.49	0	50.00		101	81.8	118				

Sample ID: 1707N07-003AMS	Client ID:	Units: ug/L			Prep Date: 08/01/2017	Run No: 348776					
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS	SW8260B	BatchID: 246303		Analysis Date: 08/01/2017	Seq No: 7662849					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Naphthalene	7775	2500	10000		77.8	51.8	132				
trans-1,3-Dichloropropene	7800	1000	10000		78.0	69.7	137				
Surr: 4-Bromofluorobenzene	25730	0	25000		103	70	130				
Surr: Dibromofluoromethane	27800	0	25000		111	70	130				
Surr: Toluene-d8	25560	0	25000		102	70	130				

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



Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707O94

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246303

Sample ID: 1707N07-003AMS	Client ID:	Units: ug/L	Prep Date: 08/01/2017	Run No: 348776							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246303	Analysis Date: 08/01/2017	Seq No: 7662851							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	8350	1000	10000		83.5	64.3	149				
Benzene	7615	500	10000	210.0	74.0	71.6	132				
Chlorobenzene	8375	500	10000		83.8	73.1	126				
Toluene	8995	500	10000	970.0	80.2	72.5	135				
Trichloroethene	7865	500	10000		78.6	70.2	132				
Surr: 4-Bromofluorobenzene	25730	0	25000		103	66.1	129				
Surr: Dibromofluoromethane	27800	0	25000		111	83.6	123				
Surr: Toluene-d8	25560	0	25000		102	81.8	118				

Sample ID: 1707N07-003AMSD	Client ID:	Units: ug/L	Prep Date: 08/01/2017	Run No: 348776							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246303	Analysis Date: 08/01/2017	Seq No: 7662850							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Naphthalene	9370	2500	10000		93.7	51.8	132	7775	18.6	37.8	
trans-1,3-Dichloropropene	8350	1000	10000		83.5	69.7	137	7800	6.81	20	
Surr: 4-Bromofluorobenzene	26330	0	25000		105	70	130	25730	0	0	
Surr: Dibromofluoromethane	27030	0	25000		108	70	130	27800	0	0	
Surr: Toluene-d8	25470	0	25000		102	70	130	25560	0	0	

Sample ID: 1707N07-003AMSD	Client ID:	Units: ug/L	Prep Date: 08/01/2017	Run No: 348776							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246303	Analysis Date: 08/01/2017	Seq No: 7662852							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	8635	1000	10000		86.4	64.3	149	8350	3.36	30.8	
Benzene	8065	500	10000	210.0	78.6	71.6	132	7615	5.74	20.7	
Chlorobenzene	8675	500	10000		86.8	73.1	126	8375	3.52	26.6	
Toluene	9345	500	10000	970.0	83.8	72.5	135	8995	3.82	23.2	
Trichloroethene	8265	500	10000		82.6	70.2	132	7865	4.96	27.7	

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707O94

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 246303**

Sample ID: 1707N07-003AMSD	Client ID:	Units: ug/L	Prep Date: 08/01/2017	Run No: 348776							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246303	Analysis Date: 08/01/2017	Seq No: 7662852							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	26330	0	25000		105	66.1	129	25730	0	0	
Surr: Dibromofluoromethane	27030	0	25000		108	83.6	123	27800	0	0	
Surr: Toluene-d8	25470	0	25000		102	81.8	118	25560	0	0	

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707O94

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246391

Sample ID: MB-246391	Client ID:	Units: mg/L	Prep Date: 08/03/2017	Run No: 348960							
SampleType: MBLK	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 246391	Analysis Date: 08/03/2017	Seq No: 7666802							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	BRL	0.10									
1,2-Dichloroethane	BRL	0.10									
2-Butanone	BRL	0.20									
Benzene	BRL	0.10									
Carbon tetrachloride	BRL	0.10									
Chlorobenzene	BRL	0.10									
Chloroform	BRL	0.10									
Tetrachloroethene	BRL	0.10									
Trichloroethene	BRL	0.10									
Vinyl chloride	BRL	0.040									
Surr: 4-Bromofluorobenzene	0.9672	0	1.000		96.7	68.3	122				
Surr: Dibromofluoromethane	0.9958	0	1.000		99.6	70.1	125				
Surr: Toluene-d8	0.9746	0	1.000		97.5	81.4	120				

Sample ID: LCS-246391	Client ID:	Units: mg/L	Prep Date: 08/03/2017	Run No: 348960							
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 246391	Analysis Date: 08/03/2017	Seq No: 7666801							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.7252	0.10	1.000		72.5	58.8	139				
1,2-Dichloroethane	0.8264	0.10	1.000		82.6	64.8	134				
2-Butanone	1.698	0.20	2.000		84.9	57.3	143				
Benzene	0.8092	0.10	1.000		80.9	75.4	127				
Carbon tetrachloride	0.8214	0.10	1.000		82.1	58.5	144				
Chlorobenzene	0.8166	0.10	1.000		81.7	77.9	122				
Chloroform	0.7648	0.10	1.000		76.5	66.5	130				
Tetrachloroethene	0.8386	0.10	1.000		83.9	73	133				
Trichloroethene	0.8288	0.10	1.000		82.9	72.1	132				
Vinyl chloride	0.7418	0.040	1.000		74.2	56.1	139				

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707094

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246391

Sample ID: LCS-246391	Client ID:	Units: mg/L	Prep Date: 08/03/2017	Run No: 348960
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 246391	Analysis Date: 08/03/2017	Seq No: 7666801

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	0.9700	0	1.000		97.0	68.3	122				
Surr: Dibromofluoromethane	0.9734	0	1.000		97.3	70.1	125				
Surr: Toluene-d8	0.9878	0	1.000		98.8	81.4	120				

Sample ID: 1708265-001AMS	Client ID:	Units: mg/L	Prep Date: 08/03/2017	Run No: 348960
SampleType: MS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 246391	Analysis Date: 08/03/2017	Seq No: 7666824

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.7728	0.10	1.000		77.3	61.9	137				
1,2-Dichloroethane	0.8730	0.10	1.000		87.3	60.3	134				
2-Butanone	2.099	0.20	2.000		105	51.8	143				
Benzene	0.8480	0.10	1.000		84.8	71.8	130				
Carbon tetrachloride	0.8104	0.10	1.000		81.0	65.8	133				
Chlorobenzene	0.8492	0.10	1.000		84.9	72	125				
Chloroform	0.8442	0.10	1.000		84.4	63.6	130				
Tetrachloroethene	0.8554	0.10	1.000		85.5	70.8	135				
Trichloroethene	1.051	0.10	1.000		105	70.3	133				
Vinyl chloride	0.7986	0.040	1.000		79.9	56.4	139				
Surr: 4-Bromofluorobenzene	0.9916	0	1.000		99.2	68.3	122				
Surr: Dibromofluoromethane	0.9934	0	1.000		99.3	70.1	125				
Surr: Toluene-d8	0.9960	0	1.000		99.6	81.4	120				

Sample ID: 1708265-001ADUP	Client ID:	Units: mg/L	Prep Date: 08/03/2017	Run No: 348960
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 246391	Analysis Date: 08/03/2017	Seq No: 7666823

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	BRL	0.10						0	0	30	
1,2-Dichloroethane	BRL	0.10						0	0	30	

**Qualifiers:**

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1707O94

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246391

Sample ID: 1708265-001ADUP Client ID: Units: mg/L Prep Date: 08/03/2017 Run No: 348960  
 SampleType: DUP TestCode: VOLATILES, TCLP SW1311/8260B BatchID: 246391 Analysis Date: 08/03/2017 Seq No: 7666823

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2-Butanone	BRL	0.20						0	0	30	
Benzene	BRL	0.10						0	0	30	
Carbon tetrachloride	BRL	0.10						0	0	30	
Chlorobenzene	BRL	0.10						0	0	30	
Chloroform	BRL	0.10						0	0	30	
Tetrachloroethene	BRL	0.10						0	0	30	
Trichloroethene	BRL	0.10						0	0	30	
Vinyl chloride	BRL	0.040						0	0	30	
Surr: 4-Bromofluorobenzene	0.9538	0	1.000		95.4	68.3	122	0.9892	0	0	
Surr: Dibromofluoromethane	1.049	0	1.000		105	70.1	125	1.025	0	0	
Surr: Toluene-d8	0.9838	0	1.000		98.4	81.4	120	0.9550	0	0	

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



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 14, 2017

Leona Miles  
Atlanta Environmental Mgmt  
2580 NE Expressway  
Atlanta GA 30345

RE: Honea Path

Dear Leona Miles:

Order No: 1708852

Analytical Environmental Services, Inc. received 3 samples on 8/8/2017 12:00:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES' certifications are as follows:

-South Carolina Certification number 98016003 for Clean Water Act and for Solid and Hazardous Waste, effective until 6/30/18.

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

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

Sincerely,

Ioana Pacurar  
Project Manager





ANALYTICAL ENVIRONMENTAL SERVICES, INC.  
 3080 Presidential Drive Atlanta, GA 30340-3704  
 Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: **1708852**  
**1707894**  
 Date: \_\_\_\_\_ Page **2** of **2** **8/14**

COMPANY: <b>ATLANTA ENVIRONMENTAL MANAGEMENT, INC. (AEM)</b>		ADDRESS: <b>2580 NW Expressway Atlanta, GA, 30345</b>		ANALYSIS REQUESTED						Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> for downloadable COCs and to log in to your AESAccess account.																				
PHONE: <b>404-329-9016</b>		EMAIL: <b>leona-miles@aem-net.com</b>		<table border="1"> <tr> <td>Voc's (8226B)</td> <td>TCLP Voc's</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						Voc's (8226B)	TCLP Voc's																			Number of Containers
Voc's (8226B)	TCLP Voc's																													
SAMPLED BY: <b>Tony L Gordon</b>		SIGNATURE: <b>(Tony) Gordon</b>																												
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)						REMARKS	Number of Containers																
		DATE	TIME				HH	MM	SS	CC	DD	MM			YY															
1	B-13 (1')	7/27/17	1805	X		SO									HOLD	4														
2	B-13 (5')	7/27/17	1810	X		SO									HOLD	4														
3	B-13 (10')	7/27/17	1815	X		SO									HOLD	4														
4	B-13 (15')	7/27/17	1820	X		SO									HOLD	4														
5	B-13 (20')	7/27/17	1825	X		SO									HOLD	4														
6	B-13 (25')	7/27/17	1830	X		SO									HOLD	4														
7																														
8	Drum #1 (2016)	7/28/17	0930	X		SO				X						4														
9	Drum #2 (2017)	7/28/17	0920	X		SO				X						4														
10																														
11	Trp Blank									X					cert	2														
12																														
13																														
14																														
RELINQUISHED BY: <b>(Tony) Gordon</b>		DATE/TIME: <b>7/28/17 (1317)</b>		RECEIVED BY: <b>(Bryan) [Signature]</b>		DATE/TIME: <b>7/28/17 1317</b>		PROJECT INFORMATION				RECEIPT																		
1.		2.		3.		PROJECT NAME: <b>HONORA PATH</b>				Total # of Containers: <b>50</b>																				
2.		3.		PROJECT #: <b>1320-1701</b>				Turnaround Time (TAT) Request																						
3.		SITE ADDRESS: <b>415 Brick Mill Rd Hanza Path, SC 29543</b>				<input checked="" type="checkbox"/> Standard 5 Business Days																								
		SEND REPORT TO: <b>Leona Miles</b>				<input type="checkbox"/> 2 Business Day Rush																								
		INVOICE TO: <b>Leona-miles@aem-net</b>				<input type="checkbox"/> Next Business Day Rush																								
		(IF DIFFERENT FROM ABOVE)				<input type="checkbox"/> Same-Day Rush (auth req.)																								
		SHIPMENT METHOD				<input type="checkbox"/> Other																								
		OUT: / / VIA:				STATE PROGRAM (if any):																								
		IN: / / VIA:				E-mail? <input checked="" type="checkbox"/> Fax? <input type="checkbox"/>																								
		client FedEx UPS US-mail courier Greyhound				DATA PACKAGE: I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>																								
		other:				QUOTE #: _____ PO#: _____																								

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

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

Preservative Codes: HH = Hydrochloric acid + Ice I = Ice only N = Nitric acid S/H = Sulfuric acid + Ice S/MH = Sodium Bisulfate/Methanol + Ice O = Other (specify) NA = None

Page 3 of 21 White Copy - Original; Yellow Copy - Client



**Client:** Atlanta Environmental Mgmt

**Project:** Honea Path

**Lab ID:** 1708852

**Case Narrative**

Off Hold Analysis:

At the request of Leona Miles with Atlanta Environmental Management samples B-13 (5'), B-13 (10'), and B-13 (15') were taken off hold from AES work order 1707O94 and analyzed for Total Volatiles SW8260B with a standard five day turnaround time.

**Analytical Environmental Services, Inc**

Date: 14-Aug-17

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-13 (5')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 6:10:00 PM
<b>Lab ID:</b> 1708852-001	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B</b>			<b>(SW5035)</b>					
1,1,1,2-Tetrachloroethane	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
1,1,1-Trichloroethane	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
1,1,2,2-Tetrachloroethane	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
1,1,2-Trichloroethane	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
1,1-Dichloroethane	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
1,1-Dichloroethene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
1,1-Dichloropropene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
1,2,3-Trichlorobenzene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
1,2,3-Trichloropropane	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
1,2,4-Trichlorobenzene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
1,2,4-Trimethylbenzene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
1,2-Dibromo-3-chloropropane	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
1,2-Dibromoethane	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
1,2-Dichlorobenzene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
1,2-Dichloroethane	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
1,2-Dichloropropane	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
1,3,5-Trimethylbenzene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
1,3-Dichlorobenzene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
1,3-Dichloropropane	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
1,4-Dichlorobenzene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
2,2-Dichloropropane	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
2-Butanone	BRL	52		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
2-Chlorotoluene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
2-Hexanone	BRL	10		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
4-Chlorotoluene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
4-Isopropyltoluene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
4-Methyl-2-pentanone	BRL	10		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Acetone	BRL	100		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Acrolein	BRL	52		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Acrylonitrile	BRL	52		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Benzene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Bromobenzene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Bromochloromethane	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Bromodichloromethane	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Bromoform	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Bromomethane	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Carbon disulfide	BRL	10		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Carbon tetrachloride	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Chlorobenzene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Chloroethane	BRL	10		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Chloroform	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ

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

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-13 (5')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 6:10:00 PM
<b>Lab ID:</b> 1708852-001	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B</b>				<b>(SW5035)</b>				
Chloromethane	BRL	10		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
cis-1,2-Dichloroethene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
cis-1,3-Dichloropropene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Dibromochloromethane	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Dibromomethane	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Dichlorodifluoromethane	BRL	10		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Ethylbenzene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Hexachlorobutadiene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Isopropylbenzene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
m,p-Xylene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Methylene chloride	BRL	21		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
n-Butylbenzene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
n-Propylbenzene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Naphthalene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
o-Xylene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
sec-Butylbenzene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Styrene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
tert-Butylbenzene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Tetrachloroethene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Toluene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
trans-1,2-Dichloroethene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
trans-1,3-Dichloropropene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Trichloroethene	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Trichlorofluoromethane	BRL	5.2		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Vinyl acetate	BRL	10		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Vinyl chloride	BRL	10		ug/Kg-dry	246682	1	08/09/2017 11:26	CJ
Surr: 4-Bromofluorobenzene	85.4	70-130		%REC	246682	1	08/09/2017 11:26	CJ
Surr: Dibromofluoromethane	91	70-130		%REC	246682	1	08/09/2017 11:26	CJ
Surr: Toluene-d8	96.8	70-130		%REC	246682	1	08/09/2017 11:26	CJ
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	14.9	0		wt%	R349416	1	08/09/2017 13:00	VH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-13 (10')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 6:15:00 PM
<b>Lab ID:</b> 1708852-002	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
1,1,1,2-Tetrachloroethane	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
1,1,1-Trichloroethane	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
1,1,2,2-Tetrachloroethane	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
1,1,2-Trichloroethane	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
1,1-Dichloroethane	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
1,1-Dichloroethene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
1,1-Dichloropropene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
1,2,3-Trichlorobenzene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
1,2,3-Trichloropropane	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
1,2,4-Trichlorobenzene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
1,2,4-Trimethylbenzene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
1,2-Dibromo-3-chloropropane	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
1,2-Dibromoethane	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
1,2-Dichlorobenzene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
1,2-Dichloroethane	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
1,2-Dichloropropane	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
1,3,5-Trimethylbenzene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
1,3-Dichlorobenzene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
1,3-Dichloropropane	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
1,4-Dichlorobenzene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
2,2-Dichloropropane	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
2-Butanone	BRL	61		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
2-Chlorotoluene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
2-Hexanone	BRL	12		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
4-Chlorotoluene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
4-Isopropyltoluene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
4-Methyl-2-pentanone	BRL	12		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Acetone	BRL	120		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Acrolein	BRL	61		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Acrylonitrile	BRL	61		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Benzene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Bromobenzene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Bromochloromethane	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Bromodichloromethane	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Bromoform	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Bromomethane	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Carbon disulfide	BRL	12		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Carbon tetrachloride	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Chlorobenzene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Chloroethane	BRL	12		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Chloroform	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ

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

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-13 (10')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 6:15:00 PM
<b>Lab ID:</b> 1708852-002	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Chloromethane	BRL	12		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
cis-1,2-Dichloroethene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
cis-1,3-Dichloropropene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Dibromochloromethane	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Dibromomethane	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Dichlorodifluoromethane	BRL	12		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Ethylbenzene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Hexachlorobutadiene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Isopropylbenzene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
m,p-Xylene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Methylene chloride	BRL	24		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
n-Butylbenzene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
n-Propylbenzene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Naphthalene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
o-Xylene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
sec-Butylbenzene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Styrene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
tert-Butylbenzene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Tetrachloroethene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Toluene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
trans-1,2-Dichloroethene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
trans-1,3-Dichloropropene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Trichloroethene	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Trichlorofluoromethane	BRL	6.1		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Vinyl acetate	BRL	12		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Vinyl chloride	BRL	12		ug/Kg-dry	246682	1	08/09/2017 11:50	CJ
Surr: 4-Bromofluorobenzene	89.3	70-130		%REC	246682	1	08/09/2017 11:50	CJ
Surr: Dibromofluoromethane	98.3	70-130		%REC	246682	1	08/09/2017 11:50	CJ
Surr: Toluene-d8	98	70-130		%REC	246682	1	08/09/2017 11:50	CJ
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	18.7	0		wt%	R349416	1	08/09/2017 13:00	VH

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

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-13 (15')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 6:20:00 PM
<b>Lab ID:</b> 1708852-003	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
1,1,1,2-Tetrachloroethane	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
1,1,1-Trichloroethane	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
1,1,2,2-Tetrachloroethane	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
1,1,2-Trichloroethane	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
1,1-Dichloroethane	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
1,1-Dichloroethene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
1,1-Dichloropropene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
1,2,3-Trichlorobenzene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
1,2,3-Trichloropropane	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
1,2,4-Trichlorobenzene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
1,2,4-Trimethylbenzene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
1,2-Dibromo-3-chloropropane	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
1,2-Dibromoethane	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
1,2-Dichlorobenzene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
1,2-Dichloroethane	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
1,2-Dichloropropane	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
1,3,5-Trimethylbenzene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
1,3-Dichlorobenzene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
1,3-Dichloropropane	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
1,4-Dichlorobenzene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
2,2-Dichloropropane	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
2-Butanone	BRL	48		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
2-Chlorotoluene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
2-Hexanone	BRL	9.5		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
4-Chlorotoluene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
4-Isopropyltoluene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
4-Methyl-2-pentanone	BRL	9.5		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Acetone	BRL	95		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Acrolein	BRL	48		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Acrylonitrile	BRL	48		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Benzene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Bromobenzene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Bromochloromethane	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Bromodichloromethane	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Bromoform	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Bromomethane	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Carbon disulfide	BRL	9.5		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Carbon tetrachloride	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Chlorobenzene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Chloroethane	BRL	9.5		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Chloroform	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ

**Qualifiers:**

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

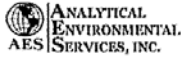
<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> B-13 (15')
<b>Project Name:</b> Honea Path	<b>Collection Date:</b> 7/27/2017 6:20:00 PM
<b>Lab ID:</b> 1708852-003	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5035)</b>								
Chloromethane	BRL	9.5		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
cis-1,2-Dichloroethene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
cis-1,3-Dichloropropene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Dibromochloromethane	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Dibromomethane	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Dichlorodifluoromethane	BRL	9.5		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Ethylbenzene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Hexachlorobutadiene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Isopropylbenzene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
m,p-Xylene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Methylene chloride	BRL	19		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
n-Butylbenzene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
n-Propylbenzene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Naphthalene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
o-Xylene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
sec-Butylbenzene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Styrene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
tert-Butylbenzene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Tetrachloroethene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Toluene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
trans-1,2-Dichloroethene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
trans-1,3-Dichloropropene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Trichloroethene	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Trichlorofluoromethane	BRL	4.8		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Vinyl acetate	BRL	9.5		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Vinyl chloride	BRL	9.5		ug/Kg-dry	246682	1	08/09/2017 12:13	CJ
Surr: 4-Bromofluorobenzene	87.5	70-130		%REC	246682	1	08/09/2017 12:13	CJ
Surr: Dibromofluoromethane	94.4	70-130		%REC	246682	1	08/09/2017 12:13	CJ
Surr: Toluene-d8	95.3	70-130		%REC	246682	1	08/09/2017 12:13	CJ
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	10.2	0		wt%	R349416	1	08/09/2017 13:00	VH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



SAMPLE/COOLER RECEIPT CHECKLIST

Clear

Save as

1. Client Name: Atlanta Environmental Mgmt

AES Work Order Number: 1707094 1708852

2. Carrier: FedEx UPS USPS Client Courier Other

Table with 5 columns: Question, Yes, No, N/A, Details, Comments. Rows 3-12 covering shipping container, custody seals, temperature, and COC items.

13. Cooler 1 Temperature 2.6 °C Cooler 2 Temperature °C Cooler 3 Temperature °C Cooler 4 Temperature °C
14. Cooler 5 Temperature °C Cooler 6 Temperature °C Cooler 7 Temperature °C Cooler 8 Temperature °C

15. Comments: I certify that I have completed sections 1-15 (dated initials), TR 7/28/17

Table with 5 columns: Question, Yes, No, N/A, Details, Comments. Rows 16-26 covering sample containers, labels, analyses, and trip blanks.

27. Comments: I certify that I have completed sections 16-27 (dated initials), BB 7/29/17

This section only applies to samples where pH can be checked at Sample Receipt.

Table with 5 columns: Question, Yes, No, N/A, Details, Comments. Rows 28-30 covering pH adjustment and preservation guidelines.

\* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.





Client: Atlanta Environmental Mgmt  
 Project Name: Honca Path  
 Workorder: 1708852

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246682

Sample ID: MB-246682	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349358
Sample Type: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246682	Analysis Date: 08/09/2017	Seq No: 7676858

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	BRL	5.0									
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,1-Dichloropropene	BRL	5.0									
1,2,3-Trichlorobenzene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2,4-Trimethylbenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3,5-Trimethylbenzene	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,3-Dichloropropane	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2,2-Dichloropropane	BRL	5.0									
2-Butanone	BRL	50									
2-Chlorotoluene	BRL	5.0									
2-Hexanone	BRL	10									
4-Chlorotoluene	BRL	5.0									
4-Isopropyltoluene	BRL	5.0									
4-Methyl-2-pentanone	BRL	10									

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1708852

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246682

Sample ID: MB-246682	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349358
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246682	Analysis Date: 08/09/2017	Seq No: 7676858

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acetone	BRL	100									
Acrolein	BRL	50									
Acrylonitrile	BRL	50									
Benzene	BRL	5.0									
Bromobenzene	BRL	5.0									
Bromochloromethane	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Hexachlorobutadiene	BRL	5.0									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methylene chloride	BRL	20									
n-Butylbenzene	BRL	5.0									
n-Propylbenzene	BRL	5.0									

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1708852

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246682

Sample ID: MB-246682	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349358							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246682	Analysis Date: 08/09/2017	Seq No: 7676858							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
sec-Butylbenzene	BRL	5.0									
Styrene	BRL	5.0									
tert-Butylbenzene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	43.26	0	50.00		86.5	70	130				
Surr: Dibromofluoromethane	46.60	0	50.00		93.2	70	130				
Surr: Toluene-d8	47.55	0	50.00		95.1	70	130				

Sample ID: LCS-246682	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349358							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246682	Analysis Date: 08/09/2017	Seq No: 7676855							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1,2-Tetrachloroethane	46.30	5.0	50.00		92.6	70	130				
1,1,1-Trichloroethane	42.95	5.0	50.00		85.9	70	130				
1,1,2,2-Tetrachloroethane	46.04	5.0	50.00		92.1	70	130				
1,1,2-Trichloroethane	48.95	5.0	50.00		97.9	70	130				
1,1-Dichloroethane	43.40	5.0	50.00		86.8	70	130				
1,1-Dichloroethene	44.75	5.0	50.00		89.5	60	140				
1,1-Dichloropropene	44.48	5.0	50.00		89.0	70	130				

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1708852

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246682

Sample ID: LCS-246682 Client ID: Units: ug/Kg Prep Date: 08/09/2017 Run No: 349358  
 SampleType: LCS TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 246682 Analysis Date: 08/09/2017 Seq No: 7676855

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2,3-Trichlorobenzene	47.87	5.0	50.00		95.7	70	130				
1,2,3-Trichloropropane	48.78	5.0	50.00		97.6	70	130				
1,2,4-Trichlorobenzene	45.08	5.0	50.00		90.2	70	130				
1,2,4-Trimethylbenzene	43.00	5.0	50.00		86.0	70	130				
1,2-Dibromo-3-chloropropane	46.44	5.0	50.00		92.9	70	130				
1,2-Dibromoethane	46.76	5.0	50.00		93.5	70	130				
1,2-Dichlorobenzene	46.38	5.0	50.00		92.8	70	130				
1,2-Dichloroethane	44.51	5.0	50.00		89.0	70	130				
1,2-Dichloropropane	46.88	5.0	50.00		93.8	70	130				
1,3,5-Trimethylbenzene	42.90	5.0	50.00		85.8	70	130				
1,3-Dichlorobenzene	44.24	5.0	50.00		88.5	70	130				
1,3-Dichloropropane	48.78	5.0	50.00		97.6	70	130				
1,4-Dichlorobenzene	45.16	5.0	50.00		90.3	70	130				
2,2-Dichloropropane	36.63	5.0	50.00		73.3	70	130				
2-Chlorotoluene	44.26	5.0	50.00		88.5	70	130				
4-Chlorotoluene	42.90	5.0	50.00		85.8	70	130				
4-Isopropyltoluene	42.26	5.0	50.00		84.5	70	130				
Benzene	46.32	5.0	50.00		92.6	70	130				
Bromobenzene	45.17	5.0	50.00		90.3	70	130				
Bromochloromethane	48.87	5.0	50.00		97.7	70	130				
Bromodichloromethane	46.99	5.0	50.00		94.0	70	130				
Bromoform	48.76	5.0	50.00		97.5	70	130				
Carbon tetrachloride	47.68	5.0	50.00		95.4	70	130				
Chlorobenzene	46.42	5.0	50.00		92.8	70	130				
Chloroform	45.61	5.0	50.00		91.2	70	130				
cis-1,2-Dichloroethene	45.97	5.0	50.00		91.9	70	130				
cis-1,3-Dichloropropene	47.98	5.0	50.00		96.0	70	130				

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1708852

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246682

Sample ID: LCS-246682	Client ID:	Units: ug/Kg	Prep Date: 08/09/2017	Run No: 349358
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246682	Analysis Date: 08/09/2017	Seq No: 7676855

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Dibromochloromethane	48.92	5.0	50.00		97.8	70	130				
Dibromomethane	47.64	5.0	50.00		95.3	70	130				
Ethylbenzene	44.63	5.0	50.00		89.3	70	130				
Hexachlorobutadiene	44.03	5.0	50.00		88.1	70	130				
Isopropylbenzene	42.50	5.0	50.00		85.0	70	130				
m,p-Xylene	94.51	5.0	100.0		94.5	70	130				
Methylene chloride	48.11	20	50.00		96.2	70	130				
n-Butylbenzene	42.26	5.0	50.00		84.5	70	130				
n-Propylbenzene	45.40	5.0	50.00		90.8	70	130				
Naphthalene	48.36	5.0	50.00		96.7	70	130				
o-Xylene	42.94	5.0	50.00		85.9	70	130				
sec-Butylbenzene	42.99	5.0	50.00		86.0	70	130				
Styrene	47.08	5.0	50.00		94.2	70	130				
tert-Butylbenzene	43.18	5.0	50.00		86.4	70	130				
Tetrachloroethene	46.16	5.0	50.00		92.3	70	130				
Toluene	45.29	5.0	50.00		90.6	70	130				
trans-1,2-Dichloroethene	37.68	5.0	50.00		75.4	70	130				
trans-1,3-Dichloropropene	48.95	5.0	50.00		97.9	70	130				
Trichloroethene	48.75	5.0	50.00		97.5	70	130				
Vinyl chloride	48.10	10	50.00		96.2	70	130				
Surr: 4-Bromofluorobenzene	47.11	0	50.00		94.2	70	130				
Surr: Dibromofluoromethane	46.92	0	50.00		93.8	70	130				
Surr: Toluene-d8	49.07	0	50.00		98.1	70	130				

Sample ID: 1708852-001AMS	Client ID: B-13 (5')	Units: ug/Kg-dry	Prep Date: 08/09/2017	Run No: 349358
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246682	Analysis Date: 08/09/2017	Seq No: 7676859

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1708852

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246682

Sample ID: 1708852-001AMS Client ID: B-13 (5') Units: ug/Kg-dry Prep Date: 08/09/2017 Run No: 349358  
 SampleType: MS TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 246682 Analysis Date: 08/09/2017 Seq No: 7676859

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	56.93	5.9	58.78		96.8	73.5	131				
1,1,1-Trichloroethane	51.30	5.9	58.78		87.3	71.4	136				
1,1,2,2-Tetrachloroethane	56.50	5.9	58.78		96.1	68.7	124				
1,1,2-Trichloroethane	57.46	5.9	58.78		97.7	75.2	125				
1,1-Dichloroethane	51.35	5.9	58.78		87.4	68.6	130				
1,1-Dichloroethene	54.14	5.9	58.78		92.1	55	143				
1,1-Dichloropropene	51.97	5.9	58.78		88.4	75.3	127				
1,2,3-Trichlorobenzene	58.49	5.9	58.78		99.5	65.7	130				
1,2,3-Trichloropropane	58.21	5.9	58.78		99.0	58.2	120				
1,2,4-Trichlorobenzene	53.88	5.9	58.78		91.7	64	129				
1,2,4-Trimethylbenzene	50.43	5.9	58.78		85.8	68.5	130				
1,2-Dibromo-3-chloropropane	58.94	5.9	58.78		100	57.2	129				
1,2-Dibromoethane	57.09	5.9	58.78		97.1	77.2	120				
1,2-Dichlorobenzene	54.81	5.9	58.78		93.2	74.6	121				
1,2-Dichloroethane	53.06	5.9	58.78		90.3	68.1	127				
1,2-Dichloropropane	54.67	5.9	58.78		93.0	74.4	122				
1,3,5-Trimethylbenzene	49.46	5.9	58.78		84.1	70.6	126				
1,3-Dichlorobenzene	51.66	5.9	58.78		87.9	71.9	122				
1,3-Dichloropropane	58.35	5.9	58.78		99.3	74.8	125				
1,4-Dichlorobenzene	52.20	5.9	58.78		88.8	70.7	123				
2,2-Dichloropropane	46.72	5.9	58.78		79.5	69.9	135				
2-Chlorotoluene	50.52	5.9	58.78		85.9	70.2	128				
4-Chlorotoluene	48.89	5.9	58.78		83.2	68.5	125				
4-Isopropyltoluene	49.47	5.9	58.78		84.2	70.2	131				
Benzene	54.56	5.9	58.78		92.8	68.5	128				
Bromobenzene	52.05	5.9	58.78		88.5	71.3	119				
Bromochloromethane	60.97	5.9	58.78		104	73	135				

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1708852

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246682

Sample ID: 1708852-001AMS Client ID: B-13 (5') Units: ug/Kg-dry Prep Date: 08/09/2017 Run No: 349358  
 SampleType: MS TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 246682 Analysis Date: 08/09/2017 Seq No: 7676859

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Bromodichloromethane	55.69	5.9	58.78		94.7	68	126				
Bromoform	60.67	5.9	58.78		103	63.5	125				
Carbon tetrachloride	54.94	5.9	58.78		93.5	67.7	138				
Chlorobenzene	55.20	5.9	58.78		93.9	67.7	126				
Chloroform	54.74	5.9	58.78		93.1	70.3	129				
cis-1,2-Dichloroethene	55.53	5.9	58.78		94.5	69.7	136				
cis-1,3-Dichloropropene	55.88	5.9	58.78		95.1	69.9	130				
Dibromochloromethane	59.34	5.9	58.78		101	70.3	129				
Dibromomethane	58.60	5.9	58.78		99.7	76.4	119				
Ethylbenzene	51.71	5.9	58.78		88.0	65.5	136				
Hexachlorobutadiene	52.44	5.9	58.78		89.2	62.7	137				
Isopropylbenzene	47.84	5.9	58.78		81.4	60.4	126				
m,p-Xylene	109.0	5.9	117.6		92.7	62.5	136				
Methylene chloride	61.81	24	58.78		105	63.4	130				
n-Butylbenzene	49.83	5.9	58.78		84.8	70.5	132				
n-Propylbenzene	51.77	5.9	58.78		88.1	69.6	123				
Naphthalene	59.69	5.9	58.78		102	61.4	136				
o-Xylene	52.01	5.9	58.78		88.5	68	129				
sec-Butylbenzene	50.77	5.9	58.78		86.4	72.2	127				
Styrene	57.04	5.9	58.78		97.0	72.6	127				
tert-Butylbenzene	50.48	5.9	58.78		85.9	71.5	131				
Tetrachloroethene	52.07	5.9	58.78		88.6	69.1	134				
Toluene	51.31	5.9	58.78		87.3	66.9	128				
trans-1,2-Dichloroethene	39.04	5.9	58.78		66.4	69.9	128				S
trans-1,3-Dichloropropene	56.99	5.9	58.78		96.9	62	129				
Trichloroethene	55.88	5.9	58.78		95.1	60.7	133				
Vinyl chloride	60.38	12	58.78		103	59.4	129				

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1708852

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246682

Sample ID: 1708852-001AMS	Client ID: B-13 (5')	Units: ug/Kg-dry	Prep Date: 08/09/2017	Run No: 349358							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246682	Analysis Date: 08/09/2017	Seq No: 7676859							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	58.67	0	58.78		99.8	70	130				
Surr: Dibromofluoromethane	55.77	0	58.78		94.9	70	130				
Surr: Toluene-d8	55.33	0	58.78		94.1	70	130				

Sample ID: 1708852-001AMSD	Client ID: B-13 (5')	Units: ug/Kg-dry	Prep Date: 08/09/2017	Run No: 349358							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 246682	Analysis Date: 08/09/2017	Seq No: 7676860							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	57.56	5.9	58.78		97.9	73.5	131	56.93	1.11	20	
1,1,1-Trichloroethane	53.39	5.9	58.78		90.8	71.4	136	51.30	4.00	20	
1,1,2,2-Tetrachloroethane	56.88	5.9	58.78		96.8	68.7	124	56.50	0.664	20	
1,1,2-Trichloroethane	59.87	5.9	58.78		102	75.2	125	57.46	4.11	20	
1,1-Dichloroethane	53.99	5.9	58.78		91.8	68.6	130	51.35	5.00	20	
1,1-Dichloroethene	56.40	5.9	58.78		95.9	55	143	54.14	4.08	19.3	
1,1-Dichloropropene	54.42	5.9	58.78		92.6	75.3	127	51.97	4.62	20	
1,2,3-Trichlorobenzene	58.34	5.9	58.78		99.2	65.7	130	58.49	0.262	20	
1,2,3-Trichloropropane	58.87	5.9	58.78		100	58.2	120	58.21	1.12	20	
1,2,4-Trichlorobenzene	53.68	5.9	58.78		91.3	64	129	53.88	0.372	20	
1,2,4-Trimethylbenzene	51.95	5.9	58.78		88.4	68.5	130	50.43	2.99	20	
1,2-Dibromo-3-chloropropane	58.50	5.9	58.78		99.5	57.2	129	58.94	0.741	20	
1,2-Dibromoethane	57.59	5.9	58.78		98.0	77.2	120	57.09	0.861	20	
1,2-Dichlorobenzene	54.60	5.9	58.78		92.9	74.6	121	54.81	0.387	20	
1,2-Dichloroethane	53.74	5.9	58.78		91.4	68.1	127	53.06	1.28	20	
1,2-Dichloropropane	58.43	5.9	58.78		99.4	74.4	122	54.67	6.65	20	
1,3,5-Trimethylbenzene	51.05	5.9	58.78		86.8	70.6	126	49.46	3.16	20	
1,3-Dichlorobenzene	52.84	5.9	58.78		89.9	71.9	122	51.66	2.25	20	
1,3-Dichloropropane	58.38	5.9	58.78		99.3	74.8	125	58.35	0.060	20	
1,4-Dichlorobenzene	53.33	5.9	58.78		90.7	70.7	123	52.20	2.14	20	

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



Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1708852

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246682

Sample ID: 1708852-001AMSD Client ID: B-13 (5') Units: ug/Kg-dry Prep Date: 08/09/2017 Run No: 349358  
 SampleType: MSD TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 246682 Analysis Date: 08/09/2017 Seq No: 7676860

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,2-Dichloropropane	51.08	5.9	58.78		86.9	69.9	135	46.72	8.92	19.2	
2-Chlorotoluene	51.68	5.9	58.78		87.9	70.2	128	50.52	2.28	20	
4-Chlorotoluene	49.96	5.9	58.78		85.0	68.5	125	48.89	2.16	20	
4-Isopropyltoluene	51.57	5.9	58.78		87.7	70.2	131	49.47	4.14	20	
Benzene	57.02	5.9	58.78		97.0	68.5	128	54.56	4.40	20	
Bromobenzene	54.13	5.9	58.78		92.1	71.3	119	52.05	3.92	20	
Bromochloromethane	61.50	5.9	58.78		105	73	135	60.97	0.864	20	
Bromodichloromethane	57.76	5.9	58.78		98.3	68	126	55.69	3.65	20	
Bromoform	61.39	5.9	58.78		104	63.5	125	60.67	1.19	20	
Carbon tetrachloride	57.51	5.9	58.78		97.8	67.7	138	54.94	4.58	20	
Chlorobenzene	56.34	5.9	58.78		95.8	67.7	126	55.20	2.04	20	
Chloroform	55.18	5.9	58.78		93.9	70.3	129	54.74	0.792	20	
cis-1,2-Dichloroethene	56.61	5.9	58.78		96.3	69.7	136	55.53	1.93	20	
cis-1,3-Dichloropropene	58.21	5.9	58.78		99.0	69.9	130	55.88	4.08	20	
Dibromochloromethane	60.45	5.9	58.78		103	70.3	129	59.34	1.86	20	
Dibromomethane	59.18	5.9	58.78		101	76.4	119	58.60	0.998	20	
Ethylbenzene	53.06	5.9	58.78		90.3	65.5	136	51.71	2.58	20	
Hexachlorobutadiene	54.46	5.9	58.78		92.6	62.7	137	52.44	3.78	20.1	
Isopropylbenzene	49.34	5.9	58.78		83.9	60.4	126	47.84	3.10	20	
m,p-Xylene	113.2	5.9	117.6		96.3	62.5	136	109.0	3.77	20	
Methylene chloride	59.90	24	58.78		102	63.4	130	61.81	3.13	20	
n-Butylbenzene	51.22	5.9	58.78		87.1	70.5	132	49.83	2.77	20	
n-Propylbenzene	53.12	5.9	58.78		90.4	69.6	123	51.77	2.58	20	
Naphthalene	59.07	5.9	58.78		100	61.4	136	59.69	1.05	20	
o-Xylene	53.58	5.9	58.78		91.1	68	129	52.01	2.96	20	
sec-Butylbenzene	52.33	5.9	58.78		89.0	72.2	127	50.77	3.03	20	
Styrene	58.66	5.9	58.78		99.8	72.6	127	57.04	2.78	20	

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

Client: Atlanta Environmental Mgmt  
 Project Name: Honea Path  
 Workorder: 1708852

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 246682

Sample ID: 1708852-001AMSD Client ID: B-13 (5') Units: ug/Kg-dry Prep Date: 08/09/2017 Run No: 349358  
 SampleType: MSD TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 246682 Analysis Date: 08/09/2017 Seq No: 7676860

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
tert-Butylbenzene	53.52	5.9	58.78		91.0	71.5	131	50.48	5.83	20	
Tetrachloroethene	52.53	5.9	58.78		89.4	69.1	134	52.07	0.877	20	
Toluene	54.28	5.9	58.78		92.3	66.9	128	51.31	5.63	20	
trans-1,2-Dichloroethene	46.40	5.9	58.78		78.9	69.9	128	39.04	17.2	21.6	
trans-1,3-Dichloropropene	57.81	5.9	58.78		98.3	62	129	56.99	1.43	20	
Trichloroethene	58.57	5.9	58.78		99.6	60.7	133	55.88	4.70	20	
Vinyl chloride	63.04	12	58.78		107	59.4	129	60.38	4.31	20.3	
Surr: 4-Bromofluorobenzene	58.49	0	58.78		99.5	70	130	58.67	0	0	
Surr: Dibromofluoromethane	56.61	0	58.78		96.3	70	130	55.77	0	0	
Surr: Toluene-d8	57.64	0	58.78		98.1	70	130	55.33	0	0	

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